

OPERATING MAINTENANCE & PARTS MANUAL



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SJ-800 Series Engine Powered

CALIFORNIA Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects, and other reproductive harm.

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ANSI/SIA (United States)

You are required by ANSI/SIA A92.6-1990 to read and understand **YOUR RESPONSIBILITIES** in the Manual Of Responsibilities before you use or operate this work platform.

CSA (Canada) and CE (Europe)

You are required to conform to national health and safety regulations applicable to the operation of this work platform.

FAILURE TO COMPLY with your REQUIRED RESPONSIBILITIES in the use and operation of the work platform could result in death or serious injury.

OPERATOR SAFETY REMINDERS

The National Safety Council reminds us that most accidents are caused by the failure of some individuals to follow simple and fundamental safety rules and precautions. Common sense dictates the use of protective clothing when working on or near machinery. Use appropriate safety devices to protect your eyes, ears, hands, feet and body.

You, as a careful operator, are the best insurance against an accident. Therefore, proper usage of this work platform is mandatory. The following pages of this manual should be read and understood completely before operating the work platform. Any modifications from the original design are strictly forbidden without written permission from SKYJACK, Inc.

	VOLTAGE RANGE	MINIMUM SAFE APPROACH DIS-		
ELECTROCUTION HAZARD	(PHASE TO PHASE)	(FEET) TAN	ICE (METERS)	
THIS MACHINE IS NOT INSULATED.	(0 TO 300V)	AVOID C	CONTACT	
MAINTAIN SAFE CLEARANCES FROM ELECTRICAL POWER LINES AND	(Over 300V to 50KV)	10	3.05	
APPARATUS. YOU MUST ALLOW FOR	(Over 50KV to 200KV)	15	4.60	
PLATFORM SWAY, ROCK OR SAG. THIS WORK PLATFORM DOES NOT	(Over 200KV to 350KV)	20	6.10	
PROVIDE PROTECTION FROM	(Over 350KV to 500KV)	25	7.62	
CONTACT WITH OR PROXIMITY TO AN ELECTRICALLY CHARGED	(Over 500KV to 750KV)	35	10.67	
CONDUCTOR.	(Over 750KV to 1000KV)	45	13.72	

FAILURE TO AVOID THIS HAZARD WILL RESULT IN DEATH OR SERIOUS INJURY!

DO NOT OPERATE THIS EQUIPMENT WITHOUT PROPER AUTHORIZATION AND TRAINING. DEATH OR SERIOUS INJURY COULD RESULT FROM IMPROPER USE OF THIS EQUIPMENT!

SERVICE POLICY AND WARRANTY

SKYJACK, Inc. warrants each new work platform to be free of defective parts and workmanship during the first 12 months. Refer to Warranty Statement on Page iv for details.

NOTE

SKYJACK, Inc. is continuously improving and expanding product features on it's equipment; therefore, specifications and dimensions are subject to change without notice.



This Safety Alert Symbol Means Attention!

Become Alert! Your Safety Is Involved.

The Safety Alert Symbol identifies important safety messages on machines, safety signs, in manuals, or elsewhere. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

SCOPE OF THIS MANUAL

This manual applies to the ANSI/SIA, CSA and CE versions of the SJ-800 Series work platform models listed in SECTION 1 on Page 3. Equipment identified with "ANSI/SIA" meets the ANSI/SIA-A92.6-1990 standards. Equipment identified with "CSA" meets the CAN3-B354.2 & .3-M82 standards. Equipment identified with "CE" meets the requirements for the European countries, i.e. Machinery Directive 89/392/EEC and EMC Directive 89/336/EEC and the corresponding EN standards.

WARRANTY STATEMENT

SKYJACK, Inc. warrants each new work platform to be free of defective parts and workmanship. During the first full year, labor and replacement parts will be provided by the local authorized Skyjack dealer without charge. For the following 48 months, structural components found to be defective will be replaced or repaired at no charge.

A warranty registration card is supplied with each work platform. The warranty is only effective when the warranty card has ben completed and returned to Skyjack within 15 days from the time of billing. When work platforms are put into stock, the warranty period does not start until the work platform has been shipped to the dealers customer. If a unit is put into service and no warranty card has been mailed to Skyjack, Inc., the warranty period will commence 15 days from the date the dealer was invoiced for the work platform.

All warranty claims are subject to approval by Skyjack's Service Department. Skyjack, Inc. reserves the right to limit or adjust claims with regard to defective parts, labor or travel time based on usual and customery guidelines. Parts purchased from sources other than Skyjack will not be covered under this warranty. Misuse or improper operation, lack of normal maintenenace and inspections as outlined in this Operating/Maintenance and Parts Manual, alterations to original design and/or components or accidents will void all warranty. **Batteries are not covered by this warranty.**

The above mentioned warranty statement is exclusive and no other warranty whether written, oral or implied shall apply. Skyjack excludes any implied warranty of merchantability and fitness and acceptd no liability for consequential damages or for other negligence.

WARRANTY PROCEDURES

The selling distributor or authorized dealer shall be responsible for the complete handling of customer claims under this warranty. Here's what to do:

- 1. When a customer files a claim under this warranty, contact Skyjack's Service Department to verify warranty coverage. NOTE: The complete serial number of the work platform is required to verify the claim.
- 2. When Skyjack's Service Department verifies warranty coverage, they will alo issue an RA (Return Authorization) number for the return of any defective component(s). All items over \$25.00 in value must be returned to Skyjack, Inc.

- 3. Fill out a Warranty Claim Form from dealer's supply of claim forms. Then notify Skyjack's Service Department of the warranty claim number on the form used.
- 4. The distributor/dealer should then file a warranty claim with Skyjack, Inc. describing the nature of the defect, probable cause, work performed, travel hours, and labor hours listed separately. Warranty labor will be paid at a rate of \$42.00 per hour. The travel allowance will be paid at the same hourly rate within the dealers specified territory, limited to a maximum of four (4) hours. If a part has serviceable components, PLEASE replace the bad component. For instance, if you have a bad switch on a controller, please replace the switch. Hydraulic cylinders should be repacked, unless they are damaged beyond repair. Engine failures should be directed to your local engine distributor and covered by the manufacturers warranty. Skyjack will accommodate you and your labor. Labor rates and travel allowances are subject to change without notice.
- 5. Warranty claims must be received by Skyjack within 15 working days from the date of the repair. Warranty claims received with insufficient information will be returned for correction or completion.
- 6. Materials returned for warranty inspection must have the following procedures:

A. Carefully packaged to prevent additional damage during shipping.

B. Drained of all contents and all open ports capped or plugged.

C. Shipped in a container tagged or marked with the RA number.

D. Shipped **PREPAID**. Any item(s) returned for warranty by any other means may be refused and returned unless prior approval from Skyjack is obtained.

E. Items shipped to the dealer will be sent freight prepaid and added to the invoice.

Failure to comply with the above procedures may delay approval and processing of the warranty claim and could result in the denial of a warranty claim. Skyjack's dealer's accounts must be kept current in order to approve and issue warranty credits. Skyjack reserves the right to withhold issuance of warranty credits to a dealer if their account is not in good standing. This is subject to change without prior notice.

SECTION 1 INTRODUCTION

PURPOSE OF EQUIPMENT

The SKYJACK SJ-800 Series Work Platform is designed to transport and raise personnel, tools and materials to overhead work areas.

USE OF EQUIPMENT

The work platform (Figure 1-2) is a highly maneuverable, mobile work station. Lifting and elevated driving MUST be on a flat, level, compacted surface. The work platform can be driven over uneven terrain only when the platform is fully lowered.

WARNINGS

The operator MUST read and completely understand the safety panel labels (Figure 1-1.) and ALL other warnings in this manual and on the work platform. Compare the labels on the work platform with the labels found throughout this manual. If any labels are damaged or missing, replace them immediately.

DESCRIPTION

The work platform consists of three major assemblies, the platform, lifting mechanism and the base. An operator's control box is mounted on the platform railing. Auxiliary and emergency controls are located at the base.

PLATFORM - The platform is constructed of a tubular support frame, a skid-resistant "diamond plate deck surface, and 43-1/2" high hinged railings with 6" toe boards and mid-rails. The platform can be entered from either side through a spring returned gate. All models can be equipped with a front or both front and rear extension platforms.

LIFTING MECHANISM - The lifting mechanism is constructed of formed steel sections making up a scissor-type assembly. The scissor-type assembly is raised and lowered by single-acting hydraulic lift cylinders with holding valves. A two-section pump, driven by an engine provides hydraulic power to the lift cylinders. A safety bar located inside the lifting mechanism (when properly positioned) prevents the scissor-type assembly from being lowered while maintenance or repairs are being performed within the lifting mechanism.

BASE - The base is a rigid one piece weldment which supports two component side cabinets. One cabinet contains the hydraulic components, up/down controls, electrical components and starter battery. The other cabinet contains the fuel tank and hydraulic tank. The front axle has two wheels, steerable by a hydraulic cylinder and is either non-driven (2WD models) or drive shaft/gear box driven (4WD models). The rear axle is drive shaft/gear box driven and has a spring-applied hydraulically-released disc parking brake. A slide-out drawer at the front of the base, supports an engine coupled with a two-section hydraulic pump providing power to the hydraulic system. An engine control panel is also located at the front of the base.

OPERATOR'S CONTROL BOX - A removable control box, mounted at the right front of the platform, contains controls for engine operation, work platform motion and emergency stopping.

HYDRAULIC OUTRIGGERS (if equipped) - Hydraulic outriggers are mounted to the four corners of the base. Controls on the operator's control box are used to extend and retract the hydraulic outrigger cylinders.

SERIAL NUMBER NAMEPLATE - The serial number nameplate, located on the rear of the machine, lists the model number, serial number, machine height, drive height, capacities, maximum wind speed, maximum manual force, maximum incline, platform height, voltage, system and lift pressures, ground prssure and date manufactured. Use this information for proper operation and maintenance and when ordering service parts.

OPTIONAL ACCESSORIES - The SKYJACK SJ-800 Series Work Platform is designed to accept a variety of optional accessories. These are listed with Table 1-1. Specifications and Features. Operating instructions for these options (if required) are located in Section 2 of this manual.



GRAD- ABILITY		30%	30%	30%	30%	
0	Raise	80 sec.	80 sec.	90 sec.	90 sec.	
SPEEL	Drive	3.0 mph (4.8 kph)	3.0 mph (4.8 kph)	3.0 mph (4.8 kph)	3.0 mph (4.8 kph)	
	TIRES	8	0	8	6)	informatio
×	Capacity	*2500# (1134kg)	*2500# (1134kg)	*1500# (681kg)	*2000# (907kg)	-4. for additional
PLATFOR	Size	68" x 133.5" (1.73x3.39m)	68" x 133.5" (1.73x3.39m)	68" x 133.5" (1.73x3.39m)	68" x 133.5" (1.73x3.39m)	oad. Refer to Table 5
	Drive	FULL**	FULL**	FULL**	FULL**	ceed rated lo
ЗНТ	Lowered	59.0" (1.50m)	59.0" (1.50m)	69.0" (1.75m)	69.0" (1.75m)	erials not to ex
HEIC	Platform	31.0' (9.45m)	31.0' (9.45m)	41.0' (12.50m)	41.0' (12.50m)	ants and mat
	Working	37.0' (11.28m)	37.0' (11.28m)	47.0' (14.33m)	47.0' (14.33m)	nber of occup
	LENGTH	137.5" (3.50m)	137.5" (3.50m)	137.5" (3.50m)	137.5" (3.50m)	olatform Nur
	WIDTH	87.0" (2.21m)	87.0" (2.21m)	87.0" (2.21m)	87.0" (2.21m)	o extension p
	WEIGHT	9,757# (4426kg)	10,257# (4652kg)	10760# (4881kg)	11,260# (5107kg)	pacity with ne
	MODEL	8831	8831F	8841	8841F	* Overall ca

Table 1-1A. Specifications and Features (Later Models)

@ - Refer to Table 5-3. ("F" denotes filled tires)

NOTE: Weight specifications shown are for standard 2WD machine with no extension platforms, outriggers or scissor guards. Add 270# (122kg) for 4WD. Add 280# (127kg) per roll out extension platform

and 430# (195kg) for 1 powered extension platform and 750# (340kg) for 2 powered extension platforms. Add 160# (73kg) for scissor guards) ** ANSI ONLY, CE = 26.0' (7.92m)

Table 1-1B. Specifications and Features (Early Models)

					HEIG	노		PLATFOR	W		SPEEL		GRAD- ABILITY
MODEL	WEIGHT	WIDTH	LENGTH	Working	Platform	Lowered	Drive	Size	Capacity	TIRES	Drive	Raise	
8231	9588# (4349kg)	82.0" (2.08m)	137.5" (3.50m)	37.0' (11.28m)	31.0' (9.45m)	59.0" (1.50m)	FULL**	68" x 133.5" (1.73x3.39m)	*2000# (907kg)	Ø	3.0 mph (4.8 kph)	sec.	30%
8231F	10,100# (4581kg)	82.0" (2.08m)	137.5" (3.50m)	37.0' (11.28m)	31.0' (9.45m)	59.0" (1.50m)	FULL**	68" x 133.5" (1.73x3.39m)	*2500# (1134kg)	8	3.0 mph (4.8 kph)	80 sec.	30%
8241F	11,170# (5067kg)	82.0" (2.08m)	137.5" (3.50m)	47.0' (14.33m)	41.0' (12.50m)	69.0" (1.75m)	FULL**	68" × 133.5" (1.73×3.39m)	*2000# (907kg)	6)	3.0 mph (4.8 kph)	Sec.	30%
* Overall c: @ - Refer tr	apacity with n Table 5-3 (")	o extension F" denotes fi	platform Nur Iled tires)	nber of occups	ants and mate	rials not to ex	ceed rated lo	ad. Refer to Table 5-	-4. for additional i	nformation			

NOTE: Weight specifications shown are for standard 2WD machine with no extension platforms, outriggers or scissor guards. Add 270# (122kg) for 4WD. Add 280# (127kg) per roll out

extension platform and 430# (195kg) for 1 powered extension platform and 750# (340kg) for 2 powered extension platforms. Add 160# (73kg) for scissor guards) **ANSI ONLY, CE = 26.0' (7.92m)

TABLE 1-1 SPECIFICATIONS AND FEATURES

STANDARD FEATURES (ANSI & CE)

- * Joystick Controller
- * Diamond Pattern, All Steel Platform Deck Construction
- * Access Ladders and Gates at Both Sides of Platform
- * Flashing Light
 - * Hourmeter
- * Self- Centering Scissors Design
- * Lockable Cabinets With Swing-Out Doors
 - * Color-Coded, Numbered Wiring System
- * Tie Down Points
- * Hinged Railing System With 6" Toe Boards
- * 35 Hp Ford Water-Cooled Gasoline Engine
- * Disc Brake System on Rear Axle
- * Dual Range (torque/speed) Selector
 - * Engine Mounted On Slide Out Tray
- * Type 6 Air Filled Tires (Models 8231, 8831 and 8841)
- * Type 6F Foam Filled Tires (Models 8231F and 8241F)
- * Dual Fuel Gasoline/Propane
- * 110V GFI AC Outlet on Platform
- * Operator Horn
- * Tilt Alarm With Lift Cut Out

OPTIONAL EQUIPMENT (ANSI & CE)

- * Kubota Diesel Water-Cooled Engine
- * Movement Alarm
- * 4 Foot Powered Extension Platform(s)
- * 3500 Watt Hydraulic AC Generator
- * 4-Wheel Drive Package
- * Base Key Switch Box
- * 4 Ft. Slide Out Extension Platform(s)
- * Rotating Amber Beacon
- * Scissor Guards
- Type 6F Foam Filled Tires (Model 8831F and Model 8841F)
- * Type 7 Air Filled or Type 7F Foam Filled Tires

WORK PLATFORM MAJOR COMPONENT IDENTIFICATION



Notes

SECTION 2 OPERATION

OPERATOR QUALIFICATIONS

Only trained and authorized persons should use this work platform. Safe use of this work platform requires the operator to understand the limitations and warnings, operating procedures and operator's responsibility for maintenance. Accordingly, the operator MUST understand and be familiar with this operating manual, its warnings and instructions and ALL warnings and instructions on the work platform. Operator also MUST be familiar with employer's work rules and related government regulations and be able to demonstrate his/ her ability to understand and operate THIS make and model work platform in the presence of a qualified person.

OPERATING CONTROLS IDENTIFICATION

The following descriptions are for identification, explanation and locating purposes only. A qualified operator MUST read and completely understand these descriptions before operating this work platform. Procedures for operating this work platform are detailed in the "**OPERATING PROCEDURES**" section Page 9.

Both standard and optional controls are identified in this section. Therefore, some controls may be included that are not furnished on your work platform.

Base Controls - Electrical Electrical Panel



Figure 2-1. Electrical Panel

ELECTRICAL PANEL - This control station is located in the Hydraulic/Electric Side Cabinet. It contains the following controls:

1. HOUR METER - Activated by the oil pressure switch, this gauge records engine running time.

2. UP PUSH-BUTTON SWITCH - Depressing and holding this push-button switch will raise the platform to desired height. Release switch to stop.

3. DOWN PUSH-BUTTON SWITCH - Depressing and holding this push-button switch will lower the platform to desired height. Release switch to stop.

4. 20 AMP CIRCUIT BREAKER RESETS - In the event of a power overload or positive circuit grounding, circuit breaker will pop out. Make the necessary corrections, then depress the push-button to reset.

Emergency Battery Disconnect Switch



Figure 2-2. Emergency Battery Disconnect Switch

1. EMERGENCY BATTERY DISCONNECT SWITCH-

Located at the front of the Hydraulic/Electric Side Cabinet, this switch when in the "OFF" position, disconnects power to all circuits. Switch MUST be in "ON" position to operate any circuit.

Engine Control Panel (Ford and Kubota Gasoline Engines)



Engine Control Panel (Kubota Diesel Engine)



Figure 2-3A. Engine Control Panel - Ford and Kubota Gasoline Engines (Shown with Dual Fuel Option)

ENGINE CONTROL PANEL - This control station is attached to an engine tray post at the front of the base. It contains the following controls:

1. ENGINE OFF/ON SWITCH - This plunger-type switch, when pulled out, energizes the engine circuit in the upper control box. To stop engine, push plunger in.

2. FUEL SELECT SWITCH (Machines with Dual Fuel Option) - To switch from LP GAS to gasoline, move switch to "GASOLINE" position. To shut off fuel, move switch to "OFF" position. To switch from gasoline to LP GAS, with the engine running, move switch to "OFF" position and let engine run until gasoline is exhausted from carburetor. When engine stops, move switch to "LP GAS" position and restart engine.

3. ENGINE START PUSH-BUTTON - When depressed, this push-button switch energizes the engine starter motor.

4. ENGINE CHOKE PUSH-BUTTON - When depressed, this push-button switch sets the choke for starting a cold gasoline engine.

Figure 2-3B. Engine Control Panel - Kubota Diesel Engine

ENGINE CONTROL PANEL - This control station is attached to an engine tray post at the front of the base. It contains the following controls:

1. ENGINE OFF/ON SWITCH - This plunger-type switch, when pulled out, energizes the engine circuit in the upper control box. To stop engine, push plunger in.

2. ENGINE START PUSH-BUTTON - When depressed, this push-button switch energizes the engine starter motor.

3. ENGINE GLOW PLUG PUSH-BUTTON - When depressed and held for 15 to 20 seconds, this push-button switch energizes the glow plug to aid in starting a cold diesel engine.

4. GLOW PLUG INDICATOR LIGHT - This red lamp illuminates until the glow plugs have completed their timed heating cycle. When the lamp goes out, the engine is ready to be started.

Base Controls - Hydraulic Emergency Lowering System



Figure 2-4. Emergency Lowering System

EMERGENCY LOWERING SYSTEM - This system allows platform lowering in the event of an emergency or an electrical system failure.

1. HOLDING VALVE MANUAL OVERRIDE KNOB -

Located on the holding valve at the bottom of each lift cylinder, these red knurled knobs when depressed and turned counter-clockwise allows hydraulic oil to bypass each holding valve. Next, by pulling out the Emergency Lowering Valve plunger the platform will gradually lower. The red knurled knobs on each holding valve MUST be depressed and turned clockwise to restore normal operation.

2. EMERGENCY LOWERING VALVE - Located at the rear of the hydraulic/electric side cabinet, this pull-type valve when used in conjunction with the holding valve manual overrides, allows platform lowering in the event of an emergency or electrical system failure. Activate each holding valve manual override, then pull plunger out to lower platform. Release to stop.



Keep clear of scissors mechanism when using emergency lowering valve! After emergency lowering is completed, the red knurled knobs on each holding valve **MUST** be depressed and turned clockwise to restore normal operation.



1-3. DISC PARKING BRAKE-This device disengages the **brake disc (1)** when driving forward or in reverse. A **hydraulic brake cylinder (2)**, linked to a **disc caliper(3)**, engages and disengages a brake disc on the rear axle drive shaft yoke.



Figure 2-6A.Parking Brake Release Hand Pump and Brake Valve Plunger

(8831 Model With Serial Number 36054 and Above) (8841 Model With Serial Number 40110 and Above)

4 - 5. PARKING BRAKE RELEASE HAND PUMP(4) AND BRAKE VALVE PLUNGER (5) - Located on the brake manifold in the hydraulic electric side cabinet, this hand operated pump MUST be used when pushing or towing the work platform. To release the parking brake:

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- Step 1. Turn Emergency Power Disconnect Switch to "OFF" position.
- Step 2. Depress the black plunger on the Brake Valve until the plunger stays in.
- Step 3. Grasp the red hand pump plunger and rapidly depress 60 to 80 times until firm resistance is felt. The brake is now released.
- Step 4. Push or tow the work platform to the desired location. NOTE: When towing, DO NOT exceed 2 mph.



Figure 2-6B. Parking Brake Release Hand Pump and Quick Brake Valve (31' Models With Serial Number 36053 and Below)

(41' Models With Serial Number 40109 and Below)

6 - 7. PARKING BRAKE RELEASE HAND PUMP (6) AND QUICK BRAKE VALVE (7) - Located on the quick brake manifold in the hydraulic/electric side cabinet, this hand operated pump MUST be used when pushing or towing the work platform. To release the parking brake:

Step 1. Turn Emergency Power Disconnect Switch to "OFF" position.

- Step 2. Depress and turn the red knurled knob on the quick brake valve counterclockwise to a fully closed position.
- Step 3. Grasp the red pump plunger and rapidly depress 60-80 times or until the brake releases.
- Step 4. Push or tow the work platform to the desired location.NOTE: When towing, DO NOT exceed 2 mph.

Step 5. Open the quick brake valve by depressing, then turning the red knurled knob on the brake valve clockwise to a fully open position.



The quick brake valve **MUST** be open to restore normal operation. Failure to follow the procedure discussed above could result in death or serious injury!

Base Controls - Manual Safety Bar



Figure 2-7. Safety Bar

1. SAFETY BAR - Designed to support the scissors assembly (when properly positioned), the safety bar MUST be used for inspection and performing maintenance or repairs within the scissors assembly. To lower safety bar, push lock lever rearward, safety bar will drop. Follow procedure on safety bar decal to properly position safety bar.



DO NOT reach through scissor assembly without the safety bar properly positioned. Failure to avoid this hazard will result in death or serious injury!

Platform Controls Operator's Control Box



Figure 2-9. Operator's Control Box

OPERATOR'S CONTROL BOX - This metal control station is mounted at the right front of the platform. It contains the following controls:

1. DRIVE/STEER CONTROLLER - A one-hand toggle type lever to control steer and three-speed drive motion. It is a "dead-man" control which returns to neutral and locks when released. To drive, turn the key to the "DRIVE" position. Depress and hold the Enable Push-button, then lift the lock ring and push/ pull the Drive/Steer Controller handle forward or backward (for reverse) to desired speed. Release to stop. To steer, depress and hold the Enable Push-button, then press the rocker switch on top of the Drive/Steer Controller handle in the direction you wish to steer.

2. TORQUE TOGGLE SWITCH - This toggle switch, when in the " for position, cuts out Drive/Steer Controller 3rd speed to provide maximum torque when climbing grades and in rough terrain. When in the " **TR** " position, all three speeds are available.

3. UP/DOWN SELECTOR SWITCH - To raise the platform, key to "LIFT" position, depress and hold the Enable Push-button, then rotate selector switch to " $\mathbf{\hat{U}}$ " (up) position until desired height is reached. Release switch to stop. To lower the platform, key to "LIFT" position, depress and hold Enable Push-button, then rotate selector switch to " $\mathbf{\hat{U}}$ " (down) position until desired height is reached. Release switch to stop. A warning alarm will sound while

4. OPERATOR HORN PUSH-BUTTON - Located on the side of the Operator's Control Box, this push-button switch, when depressed, sounds an automotive-type horn.

5. ENGINE CHOKE PUSH-BUTTON (Gasoline engines) -Located on the side of the control box, this push-button, when depressed, sets choke for starting a cold gasoline engine. GLOW PLUG PUSH-BUTTON (Diesel Engines) - Located on the side of the control box, this push-button when depressed and held for 15 to 20 seconds, powers the glow plug for starting cold diesel engines.

6. ENGINE START PUSH-BUTTON - Located on the side of the control box, this push-button, when depressed, energizes the engine starter motor.

7. ENABLE PUSH-BUTTON - When depressed and held, this push-button switch brings power to the lift, drive or outrigger circuits. It MUST be depressed and held while raising, lowering, driving, steering or operating the outriggers form this control station. Release button to stop.

8. EMERGENCY STOP BUTTON - When struck, this red push-button switch disconnects power to the control circuit. In the event of an emergency or at work platform shut down, push button in. To restore power, simply pull button out.

9. LOW/HIGH RANGE SELECT SWITCH - This rotary switch selects "LOW" range (high torque) or "HIGH" range (high speed). Select "LOW" range when climbing grades, traveling in rough terrain and when loading or unloading the work platform. Select "HIGH" range when traveling on a hard level surface with the platform fully lowered.

10. LOW/HIGH THROTTLE SELECT SWITCH -Rotate this rotary switch to "HIGH" position when driving normally or lifting. Rotate switch to "LOW" position when lowering, idling, starting engine and when "creep" driving is desired.

11. PLATFORM POWER INDICATOR LIGHT - Light will glow when key switch is in "LIFT" or "DRIVE" position. Light will not glow when key switch is in "OFF" position.

12. OFF/LIFT/DRIVE SELECT KEY SWITCH - Key to "OFF" position disconnects power to the control box. Key to "LIFT" position brings power to the Lift Enable Push-button. Key to "DRIVE" position brings power to the Drive/Steer Controller.

Optional Base Controls Base Control Box



Figure 2-8. Base Control Box (Located at rear of hydraulic/electric side cabinet)

BASE CONTROL BOX - This metal control station is mounted on the rear of the hydraulic/electric cabinet. It contains the following controls:

1. PLATFORM/BASE SELECT KEY SWITCH - Key to "PLATFORM" position directs power to the operator's control box on the platform. Key to "BASE" position directs power to the base control box.

2. PLATFORM UP/DOWN SWITCH - To raise the platform, key to "BASE" position, then move switch to " \hat{U} " (up) position. Release switch to stop. To lower the platform, key to "BASE" position, then move switch to " \hat{U} " (down) position. Release switch to stop.

3. EMERGENCY STOP BUTTON - When struck, this red push-button switch disconnects power to both the base and platform control boxes. In the event of an emergency or at work platform shut down, push the button in. To restore power, simply pull the button out.

Outrigger Controls



Figure 2-10. Outrigger Controls On Operator's Control Box

OUTRIGGER CONTROLS - Located on the Operator's Control Box, these switches control each outriggers extention and retraction.

1. OUTRIGGER UP/DOWN CONTROL TOGGLE SWITCHES - To extend an outrigger: turn key switch to "Lift" position. Depress and hold the Enable Pushbutton, then push and hold the desired outrigger control switch to "DOWN" position. Release switch to stop. To retract an outrigger: Depress and hold the Enable Push-button, then push and hold the desired outrigger control switch to "UP" position. Release switch to stop.

IMPORTANT NOTE

Limit switches are used to protect the outriggers from being damaged. If machine will not drive, visually check to see that ALL outrigger cylinders are fully retracted. Before operating outriggers, refer to Outrigger Operating Instructions found later in this section for detailed operating procedures.

Powered Extension Platform Control Box



Figure 2-11. Powered Extension Platform Control Box

POWERED PLATFORM CONTROL BOX - This metal control station is mounted at the right front of the extension platform. It contains the following controls:

1. ENABLE SWITCH - This switch, when activated, brings power to the Platform Extend/Retract Selector Switch. It MUST be used while extending or retracting the extension platform. (If equipped)

2. PLATFORM EXTEND/RETRACT SWITCH - To extend the platform, turn key to "LIFT" position with Lift/ Off/Drive Select Key Switch, activate the Enable Switch (if equipped), then move the switch to the "①" (extend) position until desired extension is reached. Release switch to stop. To retract the platform, turn key to "LIFT" position with Lift/Off/Drive Select Key Switch, activate the Enable Switch (if equipped), then move the switch to the "①" (retract) position until desired retraction is reached. Release switch to stop.

IMPORTANT NOTE

On earlier machines equipped with scissor guards, it is necessary to fully retract the extension platform before fully lowering the platform.

Fold-Down Guardrail System



Figure 2-12. Fold-Down Guardrail System

FOLD-DOWN GUARDRAIL SYSTEM - This system when folded down, reduces the shut height of the work platform for transporting and traveling through doorways.

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1. GUARDRAIL LOCKING PIN W/LANYARD - To fold the guardrail system down, remove the locking pin at each pivot point and lower each guardrail. To raise the guardrail system, swing up each guardrail and lock in place with the locking pins ensuring that the detent ball of each pin is clear of the side of the pivot brackets. (Figure 2-13.)



The guardrail system MUST be upright and locked in place with before resuming normal operation. Check the guardrail system for loose or missing locking pins before operating this equipment!



Figure 2-13. Correct Position of Locking Pin

Hydraulic Generator Control



Figure 2-14. Hydraulic Generator Control

HYDRAULIC GENERATOR CONTROL - Located on the side of the Operator's Control Box, this pushbutton switch starts the hydraulic generator on the base.

1. HYDRAULIC GENERATOR OFF/ON PUSH-BUTTON SWITCH - To start the hydraulic generator, (engine must be on high throttle) Rotate Low/High Throttle Select Switch to "HIGH" position. Select "LIFT" position with OFF/LIFT/DRIVE Select Key Switch, then depress the Hydraulic Generator Pushbutton. Push-button will illuminate. Generator on base will start. To restore normal operation depress push-button. The light in push-button will go out.

NOTE

While hydraulic generator push-button switch light is illuminated, the lift and drive circuits in the Operator's Control Box are cut out.

SET-UP PROCEDURE

The following steps are normally required for equipment being put into service for the first time. After the equipment has been unloaded:

1. Remove all packing materials and inspect for damage incurred during transport.

NOTE

Report any damage to delivery carrier immediately.

- 2. Inspect work platform thoroughly and remove any foreign objects.
- 3. Raise the side, extension platform (if so equipped), and gate railings to their upright position and lock in place with locking pins. Insert front and rear railings into pockets in platform deck. Lock side railings to front railings with locking pins.
- 4. Remove the operator's control box from it's shipping container and secure it to the railing at the right front of the platform. Attach the control cable to the scissors control cable.
- 5. Open the fuel tank side cabinet door. Fill the fuel tank to "F" level on fuel gauge with the proper fuel. (Refer to decal on fuel tank)
- 6. Close the fuel tank side cabinet door.
- If not supplied, place liquid propane cylinder (30 lb. size) in holder and secure. Connect propane hose to cylinder and open valve. (Machines with Dual Fuel Option.)
- Open the hydraulic tank side cabinet door. Check the hydraulic oil level (scissors must be fully lowered) in the tank. Level should be at or slightly above the top mark on the sight glass. If required, add a good grade hydraulic oil. (Refer to Section 5, Page 2 for recommendations.)
- 9. Check the battery fluid level. If all the plates are not covered, add distilled or demineralized water only.



Keep flames and sparks away. **DO NOT** smoke near batteries.

FIRST AID

Immediately flush eyes with cold water if electrolytic acid is splattered into them. Seek medical attention if discomfort continues.

10. Move the work platform to a level, firm test area where the work platform can be vertically extended to it's maximum working height. If the work platform is to be pushed or towed, ensure that the parking brake has been disengaged. When pushing or towing, DO NOT exceed 2 mph.

Using the Base Controls:

11. Turn the Emergency Power Disconnect Switch to "ON" position.

Using the Platform Controls:

- 12. Pull out the Emergency Stop Button.
- 13. Insert key into Off/Lift/Drive Select Key Switch and turn to "LIFT" position.

Using the Engine Controls on the Engine:

- 14. Pull Engine Off/On Switch plunger out.
- 15. Select desired fuel source with Fuel Select Switch. (Gasoline engines with Dual Fuel Option.)

NOTE

Refer to label on inside of engine front guard for fuel switch sequence.

- Depress and hold the Choke Push-Button. (Gasoline engines) Depress and hold Glow Plug Push-Button for 15 to 20 seconds. (Diesel engines)
- 17. Depress and hold the Engine Start Push-Button until the engine starts, then release. **DO NOT** over crank the starter. Release the Engine Choke Push-button.

Using the Base Controls:

- 18. Raise the platform with the Up Switch until the open height between scissors center pins is approximately 21".
- 19. Unlatch and carefully swing down the safety bar.
- 20. Slowly lower the platform with Down Switch until the scissors assembly is firmly resting on the safety bar.
- 21. Inspect all hoses, fittings, wires, valves, etc. for leaks, looseness, hidden damage, and foreign material.
- 22. Raise the platform with the Up Switch until the open height between scissors center pins is approximately 21".
- 23. Carefully swing up safety bar and lock in position.
- 24. Again, raise the platform with the Up Switch until the platform has reached it's maximum working height.

NOTE

Refer to Table 4-6. General Specifications for proper lift and lowering times.

- 25. Use the Down Switch to lower the platform to it's fully lowered position.
- 26. The SJ-800 Series Work Platform is now ready for use by an authorized, qualified operator who has read and completely understands ALL of Section 2, OPERATION in this manual.

OPERATING PROCEDURES Prestart Checks

- 1. Carefully read and completely understand ALL of Section 2, OPERATION in this manual and ALL warnings and instruction decals on the work platform.
- 2. Check for any obstacles around the work platform and in the path of travel such as holes, drop offs, debris, ditches and soft fill.
- 3. Check overhead clearances.
- 4. Make sure all guardrails are in place and locked in position.

OPERATOR'S CHECKLIST

INSPECT AND/OR TEST THE FOLLOWING DAILY OR AT BEGINNING OF EACH SHIFT

- 1. OPERATING AND EMERGENCY CONTROLS.
- 2. SAFETY DEVICES AND LIMIT SWITCHES.
- 3. PERSONAL PROTECTIVE DEVICES.
- 4. TIRES AND WHEELS.
- 5. OUTRIGGERS (IF EQUIPPED) AND OTHER STRUCTURES.
- 6. AIR, HYDRAULIC AND FUEL SYSTEM(S) FOR LEAKS.
- 7. LOOSE OR MISSING PARTS.
- 8. CABLES, WIRING HARNESSES, AND G.F.I OUTLETS
- 9. PLACARDS, WARNINGS, CONTROL MARKINGS AND OPERATING MANUALS.
- 10. GUARDRAIL SYSTEM INCLUDING LOCKING PINS.
- 11. ENGINE OIL LEVEL (IF SO EQUIPPED).
- 12. BATTERY FLUID LEVEL.
- 13. HYDRAULIC RESERVOIR LEVEL.
- 14. COOLANT LEVEL (IF SO EQUIPPED).

DO NOT OPERATE THIS EQUIPMENT WITHOUT PROPER AUTHORIZATION AND TRAINING. DEATH OR SERIOUS INJURY COULD RESULT FROM IMPROPER USE OF THIS EQUIPMENT!

Start and Operation Using the Base Controls:

1. Turn Emergency Power Disconnect Switch to "ON" position.

Using the Engine Controls on the Engine:

- 2. Pull Engine Off/On Switch plunger out.
- Select desired fuel source with Fuel Select Switch.(Gasoline engines with Dual Fuel Option)

NOTE

Refer to label on inside of engine front guard for fuel switch sequence.

4. Use the ladder at either side of the work platform to access the work platform deck. Close and latch the gate.

Using the Platform Controls:

- 5. Pull out the Emergency Stop Button.
- 6. Insert key into the Off/Lift/Drive Select Key Switch, then select "LIFT" or "DRIVE".
- If the engine is cold, depress and hold the Engine Choke Push-button (Gasoline engines) or depress and hold the Glow Plug Push-button for 15 to 20 seconds) (Diesel engines) and release.
- 8. Depress and hold the Engine Start Push-Button until engine starts, then release. **DO NOT** over crank the starter.
- 9. Select "HIGH" position with the Low/High Throttle Select Switch.
- 10. **TO RAISE THE PLATFORM:** Select "LIFT" position with Off/Lift/Drive Select Key Switch. Depress and hold the Enable Push-button, then select "①" (up) position with Up/Down Selector Switch.
- 11. **TO LOWER THE PLATFORM:** Select "LIFT" position with Off/Lift/Drive Select Key Switch. Depress and hold the Enable Push-button, then select "�" (down) position with Up/Down Selector Switch.

- 12. IF HIGH TORQUE IS DESIRED: Select "LOW" position with the Low/High Range Select Switch. IF HIGH SPEED IS DESIRED: Select "HIGH" position with the Low/High Range Select Switch.
- 13. **TO DRIVE FORWARD:** Select "DRIVE" position with Off/Lift/Drive Select Key Switch. Depress and hold the Enable Push-Button, then lift the lock ring and push Drive/Steer Controller handle forward to desired speed. Release to stop.
- 14. **TO DRIVE IN REVERSE:** Select "DRIVE" position with Off/Lift/Drive Select Key Switch. Depress and hold the Enable Push-Button, then lift the lock ring and pull Drive/Steer Controller handle backwards to desired speed. Release to stop.
- 15. **TO STEER:** Select "DRIVE" position with Off/ Lift/Drive Select Key Switch. Depress and hold the Enable Push-Button, then press rocker on top of the Drive/Steer Controller handle in the direction you wish to steer.
- 16. TO CLIMB A GRADE: Select " position with the Torque Toggle Switch.
 (MUST BE IN FULLY RETRACTED POSITION)

Shutdown Procedure

- 1. Completely lower the platform.
- 2. Turn key to "OFF" position and remove key from Off/Lift/Drive Select Key Switch.
- 3. Push Emergency Stop Button(s) in.
- 4. Turn Emergency Power Disconnect Switch to "OFF" position.

OUTRIGGER OPERATING PROCEDURES (Machines with Outrigger Option)

A. Before Operation

- 1. Check overhead clearances and ground obstructions.
- 2. Check that the supporting surface under the tires and outrigger pads is firm and stable. **DO NOT** place outrigger pad on a street drain or manhole cover. The operator is responsible for deciding whether blocking (such as timbers) is needed.
- 3. Check that the platform is fully lowered. (The outrigger controls are cut out when the platform is raised.)

B. Operation - Extending The Outriggers

- 1. Rotate key switch to "Lift" position.
- 2. Depress and hold the Enable Push-button, then push and hold each Outrigger Up/Down Toggle Switch to "DOWN" position extending each of the outriggers to obtain firm ground contact.
- 3. **Check outrigger pad contact surface!** Make adjustments as necessary.
- Again, depress and hold the Enable Pushbutton, then push and hold each Outrigger Up/Down Toggle Switch to "DOWN" position extending each of the outriggers until the machine is completely supported by the outriggers.
- 5. Level the machine. AGAIN, CHECK THE OUTRIGGER PAD CONTACT SURFACE!
- Depress and hold the Enable Push-Button, then rotate the Up/Down Selector Switch to " ①" position. NOTE: If the platform will not lift and alarm sounds (if equipped), MACHINE IS NOT LEVEL or outriggers are not properly set! Make necessary adjustments to level machine!)

C. Operation - Retracting The Outriggers

- 1. Fully lower the platform.
- 2. Depress and hold the Enable Push-button, then push and hold pairs (front or rear) of Outrigger Up/Down Toggle Switches to "UP" position until the outriggers are fully retracted.

NOTE: Switches are used to protect the outriggers from being damaged. If machine will not drive, visually check to see that ALL outriggers are fully retracted.

D. During Operation

1. Check the level of the machine frequently by lowering the platform slightly and then attempt to raise the platform. If alarm sounds (if equipped), LOWER THE PLATFORM IMMEDIATELY! Make the necessary adjustments to level the machine!

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ATTENTION SERVICE TECHNICIAN

When performing any maintenance, troubleshooting or service to the 8831/8841 Series work platform, there are some things to consider:

- The electrical schematic and panel diagram for the 8831/8841 found on the following pages must be used when performing work on ANSI platforms which were equipped with an all function alarm as standard equipment.
- Some recent CE machines may also have the all function alarm as an optional feature.





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Table 3-1. Skyjack Electrical Symbols Legend

	CIRCUITS CROSSING NO CONNECTION	0	EMERGENCY STOP BUTTON	RELAY, SINGLE POLE
	CIRCUITS CONNECTED		KEY SWITCH	RELAY, SINGLE POLE
	BATTERY		FOOT SWITCH	RELAY, DOUBLE POLE
	GROUND		TOGGLE SWITCH	RELAY, DOUBLE POLE
	- FUSE		BUSH BUTTON SWITCH	RELAY, TRIPLE POLE
	CIRCUIT BREAKER		ROTARY SWITCH	
V	VOLT METER		LIMIT SWITCH N.O.	SILICON CONTROLLED RECTIFIER
	HOURMETER	<u> </u>	LIMIT SWITCH N.O. HELD CLOSED	
\otimes	LIGHT		- LIMIT SWITCH N.C.	
	HYDRAULIC VALVE COIL	~	LIMIT SWITCH N.C. HELD OPEN	
	PROPORTIONAL HYDRAULIC VALVE COIL	Q An	CAM OPERATED LIMIT SWITCH	
M	ELECTRIC MOTOR		TILT SWITCH	PNP TRANSISTOR
	HORN		LEVEL SENSOR	NPN TRANSISTOR
	PRESSURE/VACUUM SWITCH		TEMPERATURE SWITCH	



FIGURE 3-1. CONTROL BOX DIAGRAM - North America without Outrigger and No Options

Index No.	Skyjack Part No.	Description	Units per Assy.
1	103334	CONTROLLER ASSEMBLY. Drive/steer	1
		(For components, refer to Figure 6-12.)	
	103957	 SCREW, Machine #8-32 x 1/2" 	4
	112249	WASHER, Lock #8	4
2	(Ref.)	LIGHT ASSEMBLY, Power indicator	1
	103202	 LENS, Reu BASE Indicator light 	
	102071	BUI B 12 Volt	
3	(Ref.)	SWITCH ASSEMBLY. Throttle select	1
	102836	HEAD, Select switch	1
	103100	BASE, Contact	1
	103141	 BLOCK, N.O. Contact (Kubota Engines Only) 	1
	103225	BLOCK, N.C. Contact (Ford Engines Only)	1
4	(Ket.)	SWITCH ASSEMBLY, Range select	1
	102030	BASE Contact	
	103141	BLOCK N O Contact	
5	(Ref.)	SWITCH ASSEMBLY, Up/down selector	1
	102837	HEAD, Selector switch	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
6	(Ref.)	SWITCH ASSEMBLY, Emergency stop	1
	100149	WASHER, Flat	1
	102709	BASE Contact	
	103225	BLOCK N.C. Contact	
7	(Ref.)	SWITCH ASSEMBLY, Start push-button	1
	102851	HEAD, Push-button switch	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
8	(Ref.)	SWITCH ASSEMBLY, Choke or glow plug	
	102851	HEAD, PUSN-DUTION SWITCH BASE Contact	1
	103100	BLOCK NO Contact	1
9	(Bef.)	SWITCH ASSEMBLY, Lift enable push-button	1
	108854	HEAD, Push-button switch (green)	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
10	(Ref.)	SWITCH ASSEMBLY, Key select	1
	102753	HEAD, 3-Position key select	
	103100	BASE, CONTACT BLOCK N.O. Contact	1
	103225	BLOCK, N.C. Contact BLOCK, N.C. Contact	1
11	114485	CABLE ASSEMBLY. Control box 16 pole	1
		(Replaces cable with 28 pole round connector by	
		also ordering (1) CONNECTOR, 114477)	
	700162	• • CABLE, 18/30	70"
	114478	CONNECTOR ASSEMBLY, 16 Pole male (Backware 22 code of a c	1
		(Replaces 28 pole round connector by also	
10	102012	ordering (1) CONNECTOR, 114477)	1.2
12	103012	SCREW Machine #6-32 x 3/4" la	1.3 6
	103985	• • NUT Machine #6-32	6
13	114373	SWITCH, Torque togale	1
1			





FIGURE 3-2. CONTROL BOX DIAGRAM - North America with Outriggers and All Options

Index No.	Skyjack Part No.	Description	Units per Assy.
1	103334	CONTROLLER ASSEMBLY, Drive/steer	1
		(For components, refer to Figure 6-12.)	
	103957	• SCREW, Machine #8-32 x 1/2"	4
0	112249 (Dof.)	WASHER, LOCK #8	4
2	103202	IFNS Red	1
	102671	BASE. Indicator light	1
	103221	BULB, 12 Volt	1
3	(Ref.)	SWITCH ASSEMBLY, Throttle select	1
	102836	HEAD, Select switch	1
	103100	BASE, Contact	
	103141	BLOCK, N.O. Contact (Kubota Engines Only) BLOCK, N.C. Contact (Ford Engines Only)	1
4	(Ref)	SWITCH ASSEMBLY Bange select	1
	102836	HEAD. Select switch	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
5	(Ref.)	SWITCH ASSEMBLY, Up/down selector	1
	102837	HEAD, Selector switch ASE Context	1
	103100	BASE, Contact BLOCK N.O. Contact	1
6	(Bef.)	SWITCH ASSEMBLY, Emergency stop	1
	100149	• WASHER, Flat	1
	102769	HEAD, Stop switch	1
	103100	BASE, Contact	1
_	103225	BLOCK, N.C. Contact	1
· ·	(Ref.)	SWITCH ASSEMBLY, Start push-button	1
	103100	BASE Contact	1
	103141	BLOCK, N.O. Contact	1
8	(Ref.)	SWITCH ASSEMBLY, Choke or glow plug	1
	102851	HEAD, Push-button switch	1
	103100	BASE, Contact	1
0	103141 (Dof.)	BLOCK, N.O. Contact SW/ITCH ASSEMBLY Lift anabla push butten	1
9	(Rel.) 108854	• HEAD Push-button switch (green)	1
	103100	BASE. Contact	
	103141	BLOCK, N.O. Contact	1
10	(Ref.)	SWITCH ASSEMBLY, Key select	1
	102753	HEAD, 3-Position key select	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact BLOCK N.C. Contact	1
11	115278	CABLE ASSEMBLY Scissor control (31' Models)	1
L	115279	CABLE ASSEMBLY, Scissor control (41' Models)	1
	114475	CONNECTOR, 32 Pole female	1
	114476	CONNECTOR, 32 Pole male	1
10	115274	• CABLE, Control 18/30 (31' - 564" lg. and 41' - 732" lg.)	
12	103012	 STRIP, Terminal DIOCK SCREW, Machine #6.32 x 3/4" la 	2.3
	103985	 • NUT Machine #6-32 	6
13	114373	SWITCH, Torque toggle	1
14	102853	SWITCH, Outrigger control switch	4
15	(Ref.)	SWITCH ASSEMBLY, Horn push-button	1
	102851	HEAD, Push-button switch	1
	103100	BASE, CONTACT BLOCK N.O. Contact	1
16	(Rof)	SWITCH ASSEMBLY Hydraulic generator	1
	103221	BULB, 12 Volt	
	112436	HEAD, Illuminated push-button switch	1
	112434	BLOCK, Switch and hold contact	1
	112435	BASE W/CONTACT BLOCKS, Lamp	1
	103141	BLOCK, N.O. Contact	
	103225	• • DLOCK, N.C. CONIACI	

FIGURE 3-3. CONTROL BOX DIAGRAM - Europe without Outriggers and No Options

Index No.	Skyjack Part No.	Description	Units per Assy.
1	103334	CONTROLLER ASSEMBLY, Drive/steer	1
		(For components, refer to Figure 6-12.)	
	103957	• SCREW, Machine #8-32 x 1/2"	4
2	112249 (Ref.)	WASHER, LOCK #8	4
2	103202	LIGHT ASSEMBLY, POWER Indicator LENS Red	1
	102671	BASE Indicator light	1
	103221	BULB, 12 Volt	1
3	(Ref.)	SWITCH ASSEMBLY, Throttle select	1
	102836	HEAD, Select switch	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact (Kubota Engines Only)	1
4	103225	BLOCK, N.C. Contact (Ford Engines Only)	1
4	102836	• HEAD Select switch	1
	102030	BASE Contact	1
	103141	BLOCK, N.O. Contact	1
5	(Ref.)	SWITCH ASSEMBLY, Up/down selector	1
	102837	HEAD, Selector switch	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
6	(Ref.)	SWITCH ASSEMBLY, Emergency stop	1
	100149	• WASHER, Flat	1
	102709	BASE Contact	1
	103225	BLOCK, N.C. Contact	1
7	(Ref.)	SWITCH ASSEMBLY, Start push-button	1
	102851	HEAD, Push-button switch	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
8	(Ref.)	SWITCH ASSEMBLY, Choke or glow plug	1
	102851	HEAD, PUSN-DUTION SWITCH A RASE Contact	1
	103100	BLOCK NO Contact	1
9	(Ref.)	SWITCH ASSEMBLY. Lift enable push-button	1
	108854	HEAD, Push-button switch (green)	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
10	(Ref.)	SWITCH ASSEMBLY, Key select	1
	102753	HEAD, 3-Position key select	1
	103100	• BASE, Contact	1
	103141	BLOCK, N.O. Contact BLOCK N.C. Contact	1
11	115278	CABLE ASSEMBLY Scissor control (31' Models)	1
	115279	CABLE ASSEMBLY. Scissor control (41' Models)	1
	114475	CONNECTOR, 32 Pole female	1
	114476	CONNECTOR, 32 Pole male	1
	115274	 CABLE, Control 18/30 (31' - 564" Ig. and 41' - 732" Ig.) 	1
12	103012	STRIP, Terminal block	2.3
	103955	• SCREW, Machine #6-32 x 3/4" lg.	6
10	103985	• • INU I, MACHINE #6-32	6
1/	(Bef)	SWITCH ASSEMBLY Horn push-button	1
14	102851	HEAD Push-button switch	1
	103100	BASE. Contact	1
	103141	BLOCK, N.O. Contact	1




FIGURE 3-4. CONTROL BOX DIAGRAM - Europe with Outriggers and All Options

Index No.	Skyjack Part No.	Description	
1	103334	CONTROLLER ASSEMBLY, Drive/steer	
		(For components, refer to Figure 6-12.)	
	103957	• SCREW, Machine #8-32 x 1/2"	4
2	112249 (Pof.)	WASHER, LOCK #8	4
2	103202	I ENS Bed	1
	102671	BASE, Indicator light	1
	103221	BULB, 12 Volt	1
3	(Ref.)	SWITCH ASSEMBLY, Throttle select	1
	102836	HEAD, Select switch	1
	103100	BASE, Contact BLOCK N.O. Contact (Kubata Engines Oply)	1
	103225	BLOCK, N.O. Contact (Rubbla Engines Only) BLOCK N.C. Contact (Ford Engines Only)	1
4	(Ref.)	SWITCH ASSEMBLY. Range select	
	102836	HEAD, Select switch	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
5	(Ref.)	SWITCH ASSEMBLY, Up/down selector	1
	102037	ALAD, Selector Switch BASE Contact	1
	103141	BLOCK, N.O. Contact	1
6	(Ref.)	SWITCH ASSEMBLY, Emergency stop	1
	100149	WASHER, Flat	1
	102769	HEAD, Stop switch	1
	103100	BASE, Contact	
7	103225 (Rof.)	BLOCK, N.C. CONTACT SWITCH ASSEMBLY Start push button	1
'	102851	HEAD Push-button switch	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
8	(Ref.)	SWITCH ASSEMBLY, Choke or glow plug	1
	102851	HEAD, Push-button switch	1
	103100	BASE, Contact BASE, Contact	1
9	(Ref.)	SWITCH ASSEMBLY. Lift enable push-button	1
	108854	HEAD, Push-button switch (green)	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
10	(Ref.)	SWITCH ASSEMBLY, Key select	1
	102753	HEAD, 3-POSITION Key select BASE Contact	1
	103141	BLOCK, N.O. Contact	
	103225	BLOCK, N.C. Contact	1
11	115278	CABLE ASSEMBLY, Scissor control (31' Models)	1
	115279	CABLE ASSEMBLY, Scissor control (41' Models)	1
	1144/5	CONNECTOR 22 Pole male CONNECTOR 22 Pole male	
	114470	 CABLE Control 18/30 (31' - 564" lg and 41' - 732" lg) 	1
12	103012	STRIP, Terminal block	2.3
	103955	• • SCREW, Machine #6-32 x 3/4" lg.	6
	103985	• NUT, Machine #6-32	6
13	114373	SWITCH, Torque toggle	1
14	102853 (Rof.)	SWITCH ASSEMBLY Here push button	4
10	102851	HFAD. Push-button switch	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
16	(Ref.)	SWITCH ASSEMBLY, Hydraulic generator	1
	103221	BULB, 12 Volt	
	112436	HEAD, Illuminated push-button switch BLOCK Switch and hold contact	1
	112434	BASE W/CONTACT BLOCKS Lamp	1
	103141	• BLOCK, N.O. Contact	1
	103225	BLOCK, N.C. Contact	1

Ref. No.	Skyjack Part No.	Description	
AC1	115914	CONTROLLER Actuator (Ford engine)	
B1	103295	BATTERY 12 Volt	
BP-29	103056	BEEPER 12 Volt	1
CAP1	103319	CAPACITOR 35 Volt 1000MED	1
CB1	117326	CIRCUIT BREAKER 20 Amp (Benlaces 114584 and 102331)	1
CB2	117326	CIRCUIT BREAKER 20 Amp (Replaces 114584 and 102331)	1
ODZ	117020	(nowered platform option)	1
CB3	117326	CIBCUIT BREAKER 20 Amp (Beplaces 114584 and 102331)	1
CB4	117326	CIRCUIT BREAKER 20 Amp (Replaces 114584)	
OD4	117020	(hydraulic generator option)	
CBD1	115283	CABLE ASSEMBLY Control box	1
ONDI	110200	(Model 800 with born, generator and/or outrigger options)	l '
	11//85	CABLE ASSEMBLY Control box (Model 800 w/no options)	1
CBD2	115278	CABLE ASSEMBLY, Scissor control	1
ONDZ	115270	(Model 8831 with born generator and/or outrigger options)	'
	115270	CABLE ASSEMBLY Sciesor control	1
	115275	(Model 8841 with horn, generator and/or outrigger options)	'
	11//81	CABLE ASSEMBLY Scissor control (Model 8831 w/no ontions)	1
	11//82	CABLE ASSEMBLY, Scissor control (Model 8841 w/no options)	1
CBD3	115284	CABLE ASSEMBLY Electrical panel	1
ONDO	110204	(Model 800 with born, generator and/or outrigger options)	l '
	114484	CABLE ASSEMBLY Electrical panel (Model 800 w/no options)	
CBD4	(Ref.)	CABLE ASSEMBLY Engine harness	1
CRD5	(Ref.)	CABLE ASSEMBLY Engine	1
CS-31A	103007	CHOKE SOLENOID (Eard engine)	
	104313	DIODE ASSEMBLY W/A DIODES (D154-1, D164-1, D234, D244)	
	105657	DIODE ASSEMBLY W/2 DIODES (D15A-1, D16A-2)	
DA3	105964	DIODE ASSEMBLY W/2 DIODES (DTIA thru D78A)	
D02-X	700166	DIODE Elyback 1 Amp 400PIV	
	102921	DIODE 6 Amp 1000PIV	AR
DCM1	300248	MOTOR 12 Volt (powered extension platform)	1
F2	111282	FUSE 100 Amp (powered extension platform)	1
F3	114866	FUSE 1 Amp (tilt switch)	1
FL-13A	103743	FLASHER 12 Volt	1
FL-22	102511	FLASHING LIGHT 12 Volt	1
FP1	115387	FUEL PUMP (Ford engine)	1
	107219	FUEL PUMP (Kubota engine)	1
GC1	115914	GOVERNOR CONTROLLER (Ford engine)	1
GPL1	119184	GLOW PLUG INDICATOR LIGHT (Kubota engine)	1
GPT1	119185	GLOW PLUG TIMER (Kubota engine)	1
H1	102850	HORN. 12 Volt (horn option)	1
HTS-34A	103007	HIGH THROTTLE SOLENOID (Kubota engine)	1
LS2	111356	LIMIT SWITCH. 26 Ft. lift cut-out	
LS4	115658	LIMIT SWITCH, End-of-stroke	1
LS5	111356	LIMIT SWITCH. High drive/tilt-override	
LS61	115652	LIMIT SWITCH, Outrigger (left front down) (modified 115658)	
LS62	115652	LIMIT SWITCH, Outrigger (right front down)(modified 115658)	
LS63	115652	LIMIT SWITCH, Outrigger (right rear down) (modified 115658)	
LS64	115652	LIMIT SWITCH, Outrigger (left rear down) (modified 115658)	
LS65	115658	LIMIT SWITCH, Outrigger (left front up)	
LS66	115658	LIMIT SWITCH, Outrigger (right front up)	

Ref. No.	Skyjack Part No.	Description	
1007	115650	LIMIT SWITCH Outrigger (right root up)	
1569	115659	LIMIT SWITCH, Outrigger (Inglit rear up)	
	10000	CIII DEESSURE SWITCH (Ford and Kubota anginas)	
	102030	ONTACT AND PASE. Power indicator light	
	102071	DOVINITY SWITCH Outrigger (left front up)	
PS62	108626	PROVIMITY SWITCH, Outrigger (right front up)	1
PS63	108626	PROVIMITY SWITCH, Outrigger (right rear up)	1
PS64	108626	ROXIMITY SWITCH Outrigger (left rear up)	
PS65	108627	ROXIMITY SWITCH Outrigger (left front down)	
PS66	108627	BOXIMITY SWITCH, Outrigger (right front down)	
PS67	108627	PROXIMITY SWITCH, Outrigger (right rear down)	1
PS68	108627	PROXIMITY SWITCH, Outrigger (left rear down)	1
RA1	115913	ACTUATOR Governor (Ford engine)	1
BST2	108788	BESISTOR 3 Ohm/100W	1
S1	119726	SWITCH Main power disconnect (Replaces 102601)	1
S2	103141	N O CONTACT Un/off/down switch (CE) (base control box)	2
S3	103141	N O CONTACT Off/lift/drive select key switch	1
00	103225	N C CONTACT Off/lift/drive select key switch	3
S4	103225	N C CONTACT Emergency stop switch (platform)	1
S5	103141	N.O. CONTACT, Up/off/down switch (platform)	2
S6	103225	N.C. CONTACT, Emergency stop switch (CE) (base control box)	1
S7	103334	CONTROLLER ASSEMBLY. Drive/steer	1
S7-1	102768	SWITCH W/ACTUATOR, 2nd Speed	1
S7-2	105733	SWITCH Bight steer	
S7-3	105733	SWITCH. Left steer	
S7-4	102768	SWITCH W/ACTUATOR, Reverse drive	
S7-5	102768	SWITCH W/ACTUATOR, Forward drive	1
S7-6	102768	SWITCH W/ACTUATOR, 3rd Speed	1
S8	103141	N.O. CONTACT, Horn switch (horn option)	1
S9	103141	N.O. CONTACT, Lift enable switch	
S10	103141	N.O. CONTACT, Platform/base switch (CE) (base control box)	
	103225	N.C. CONTACT, Platform/base switch (CE) (base control box)	
S11	102853	SWITCH, Front platform extend/retract toggle (powered extension platform option)	
S11A	102853	SWITCH, Rear platform extend/retract toggle (powered extension platform option)	1
S12	103141	N.O. CONTACT, Hydraulic generator switch (hydraulic generator option)	1
	112434	CONTACT, Switch and hold (hydraulic generator option)	1
S13	103141	N.O. CONTACT, Engine choke switch (Ford engine)	1
S13	103141	N.O. CONTACT, Engine glow plug switch (Kubota engine)	1
S14	103141	N.O. CONTACT, Low/high throttle switch	1
S15	103141	N.O. CONTACT, Engine start switch	1
S16	103141	N.O. CONTACT, Up pushbutton	1
S17	103141	N.O. CONTACT, Down pushbutton	1
S20	102853	SWITCH, Outrigger up/down (left front) (outrigger option)	1
S21	102853	SWITCH, Outrigger up/down (right front) (outrigger option)	
S22	102853	SWITCH, Outrigger up/down (right rear) (outrigger option)	
S23	102853	SWITCH, Outrigger up/down (left rear) (outrigger option)	
S29	103141	N.O. CONTACT, Low/high range	
S30	102752	SWITCH, Engine off/on (engine)	
S31	102692	SWITCH, Engine choke push-button (Ford engine)	
S32	102692	SWITCH, Engine start push-button (Ford and Kubota engines)	
S33	111627	SWITCH, Fuel select toggle (Ford engine with Dual Fuel Option)	
S34	102853	SWITCH, Front powered platform enable (powered extension platform option)	1

Ref. No.	Skyjack Part No.	Description	
S34A	102853	SWITCH Bear powered platform enable (powered extension platform option)	
S41	114373	SWITCH Torque togale	
S51	103141	N.O. CONTACT. Emergency lowering switch	
TPS1	116023	TEMPERATURE SWITCH. Engine (Ford engine)	1
TPS1	113400	TEMPERATURE SWITCH, Engine (Kubota engine)	1
TS1	117880	TILT SWITCH ASSEMBLY (Replaces 106471)	1
TT	103336	HOUR METER	1
VS1	111623	VACUUM SWITCH (Ford engine with Dual Fuel Option)	1
1TD	103207	RELAY, 12 Volt DPDT (drive time delay)	1
09ACR	111787	CONTACTOR, 12 Volt (ANSI/SIA & CSA) (powered extension platform opt.)	1
09BCR	111787	CONTACTOR, 12 Volt (CE) (powered extension platform option)	1
10BCR1	103207	RELAY, 12 Volt DPDT (engine on)	1
10BCR2	103207	RELAY, 12 Volt DPDT (engine protection relay)	1
13CR	103316	RELAY, 12 Volt SPDT (down)	1
14CR	103316	RELAY, 12 Volt SPDT (up)	1
15CR	103207	RELAY, 12 Volt DPDT (reverse drive)	1
16CR	103207	RELAY, 12 Volt DPDT (forward drive)	1
17CR	103316	RELAY, 12 Volt SPDT (2nd speed)	1
17ACR	103316	RELAY, 12 Volt SPDT (small pump)	1
17BCR	103316	RELAY, 12 Volt SPDT (outrigger trigger)	1
18CR	103316	RELAY, 12 Volt SPDT (3rd speed)	1
20CR	103316	RELAY, 12 Volt SPDT (series/parallel drive)	1
23CR	103316	RELAY, 12 Volt SPDT (right steer)	
24CR	103316	RELAY, 12 Volt SPDT (left steer)	
28CR	103207	RELAY, 12 Volt DPDT (tilt switch)	
31CR	103316	RELAY, 12 Volt SPDT (choke/glow plug)	
31ACR	103731	RELAY, 12 Volt (glow plug) (Kubota diesel engine)	
32CR	103207	RELAY, 12 Volt DPDT (engine start)	
32ACR	ENGINE	SOLENOID, Engine starter	
34BCR	103316	RELAY, 12 Volt SPDT (low/high throttle)	
35CR	103207	RELAY, 12 VOIT DPD1 (tilt override)	
49CR	103316	RELAY, 12 Volt SPDT (norn) (option)	
55CR	103731	RELAY, 12 Volt (vacuum switch) (Ford dual luel engine)	
61CR	103207	RELAY, 12 Volt DPDT (outrigger)	1
62CR	103207	RELAY, 12 Volt DPDT (outrigger proximity switch)	1
64CP	103207	RELAY, 12 Volt DPDT (outrigger proximity switch)	1
65CP	103207	DELAY, 12 Volt DEDT (outrigger proximity switch)	1
66CP	103310	DELAY, 12 Volt SPDT (outrigger)	1
67CB	103316	RELAY, 12 Volt SPDT (outrigger proximity switch)	1
68CB	103316	BELAY 12 Volt SPDT (outrigger proximity switch)	1
71CB	103316	BELAY, 12 Volt SPDT (outrigger) (left front up)	1
72CB	103316	RELAY, 12 Volt SPDT (outrigger) (right front up)	1
73CB	103316	RELAY, 12 Volt SPDT (outrigger) (right rear up)	
74CR	103316	RELAY, 12 Volt SPDT (outrigger) (left rear up)	
75CR	103316	RELAY, 12 Volt SPDT (outrigger) (left front down)	
76CR	103316	RELAY, 12 Volt SPDT (outrigger) (right front down)	
77CR	103316	RELAY, 12 Volt SPDT (outrigger) (right rear down)	
78CR	103316	RELAY, 12 Volt SPDT (outrigger) (left rear down)	
85CR	103316	RELAY, 12 Volt SPDT (hydraulic generator option)	
97ACR1	111787	CONTACTOR, 12 Volt (CE) (powered extesion platform option)	
97ACR2	103207	RELAY, 12 Volt DPDT (CE) (powered extension platform option)	

Ref. No.	Skyjack Part No.	Description	
99CR	300242	SOLENOID. 12 Volt motor (powered extension platform option)	
2H-13A	103613	COIL, 12 Volt (main lowering valve)	1
2H-13A2	104410	COIL, 12 Volt (lift cylinder holding valve)	1
2H-13A3	104410	COIL, 12 Volt (lift cylinder holding valve)	1
2H-13A4	104410	COIL, 12 Volt (lift cylinder holding valve)	1
2H-13A5	104410	COIL. 12 Volt (lift cylinder holding valve)	1
2H-14B	103613	COIL. 12 Volt (lift valve)	1
2H-17A	106272	COIL. 12 Volt (large pump dump valve)	1
2H-18A	103613	COIL. 12 Volt (small pump dump valve)	1
2H-30A	103613	COIL, 12 Volt (free-wheeling valve)	1
2H-30A1	103613	COIL, 12 Volt (brake dump valve)	1
2H-30A2	103613	COIL, 12 Volt (brake feed valve)	1
2H-86	106272	COIL, 12 Volt (hydraulic generator valve) (option)	1
2H-98-1	104410	COIL, 12 Volt (auxiliary lift cylinder lowering valve)	1
2H-98-2	104410	COIL, 12 Volt (auxiliary lift cylinder lowering valve)	1
2H-98-3	104410	COIL, 12 Volt (auxiliary lift cylinder lowering valve)	1
2H-98-4	104410	COIL, 12 Volt (auxiliary lift cylinder lowering valve)	1
2P-50	111618	COIL, 12 Volt (propane valve)	1
3H-20A	113491	COIL, 12 Volt (series/parallel drive valve)	1
4H-15B	107441	COIL, Reverse drive valve	1
4H-16B	107441	COIL, Forward drive valve	1
4H-23A	107440	COIL, Right steer valve	1
4H-24A	107440	COIL, Left steer valve	1
4H-26	107440	COIL, 12 Volt (front powered ext. plaform extend valve)	1
4H-27	107440	COIL, 12 Volt (front powered ext. plaform retract valve)	1
4H-26A	107440	COIL, 12 Volt (rear powered ext. plaform extend valve)	1
4H-27A	107440	COIL, 12 Volt (rear powered ext. plaform retract valve)	1
4H-71A	107440	COIL, 12 Volt (outrigger) (left front up)	1
4H-72A	107440	COIL, 12 Volt (outrigger) (right front up)	1
4H-73A	107440	COIL, 12 Volt (outrigger) (right rear up)	1
4H-74A	107440	COIL, 12 Volt (outrigger) (left rear up)	1
4H-75A	107440	COIL, 12 Volt (outrigger) (left front down)	1
4H-76A	107440	COIL, 12 Volt (outrigger) (right front down)	1
4H-77A	107440	COIL, 12 Volt (outrigger) (right rear down)	1
4H-78A	107440	COIL, 12 Volt (outrigger) (left rear down)	1









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FIGURE 3-9. ELECTRICAL SCHEMATIC - Kubota Dual Fuel without Options (ANSI/SIA-CSA)

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FIGURE 3-10. ELECTRICAL SCHEMATIC - Kubota Dual Fuel with All Options (Proxy Switches) (ANSI/SIA-CSA)

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FIGURE 3-11. ELECTRICAL SCHEMATIC - Ford Dual Fuel without Options (ANSI/SIA-CSA)

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FIGURE 3-12. ELECTRICAL SCHEMATIC - Ford Dual Fuel with All Options (Mechanicl Switches) (ANSI/SIA-CSA)

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FIGURE 3-13. ELECTRICAL SCHEMATIC - Kubota Diesel without Options (CE)

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PROPANE VAL VE



FIGURE 3-17. OUTRIGGER DIAGRAM - Proximity Switches

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Description	Units per Assy.
	4
	4
	1
mity	4
e mounting block) (outrigger retracted)	4
e cross tube) (outrigger extended)	4
Y, 5 Pole male	4
5 Pole female	4



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FIGURE 3-20. HYDRAULIC SCHEMATIC - With Powered Extension Platform Option

FIGURE 3-20. HYDRAULIC SCHEMATIC - With Powered Extension Platform Option (continued)

Skyjack Part No.

107271 113752

104132

103655

107269

107269

103655

103656

103656

110655

112218

103656

103655

104412

113492

103397

103397

103396

103396

103396

103396

103396

103396

103396

103396

103396

103396

(Ref.)

(Ref.)

107396

103397

103397

103397

103397 111290

113173

113289

Ref. No.	Skyjack Part No.	Description	Units per Assy	Ref. No.
C1	109953	CYLINDER ASSEMBLY. Lift	1	V1
C2	109953	CYLINDER ASSEMBLY, Lift	1	V2
	112165	KIT, Seal repair	AR	2H-10A
C5	112448	CYLINDER ASSEMBLY, Disc Brake	1	2H-13B
	112274	KIT, Seal repair	AR	2B-13B-1
C7	112498	CYLINDER ASSEMBLY, Steer 2WD/4WD	1	2B-13B-2
		(Replaces 105325 for 2WD, 105335 for 4WD)	AR	2H-14B
	113443	KIT, Seal repair (For cylinder, 112498)	AR	2H-17A
	103762	 KIT, Seal repair (For cylinders, 105325 and 105335) 	AR	2H-18A
C8	107752	CYLINDER, Cushion	1	2H-25
C9	109563	CYLINDER ASSEMBLY, Left front outrigger (opt.)	1	2H-30A
C10	109563	CYLINDER ASSEMBLY, Right front outrigger (opt.)	1	2H-30A-1
C11	109563	CYLINDER ASSEMBLY, Right rear outrigger (opt.)	1	2H-30A-2
C12	109563	CYLINDER ASSEMBLY, Left rear outrigger (opt.)	1	2H-86
	104355	KIT, Seal repair	AR	3H-20A
CV1	104624	CHECK VALVE, Small pump	1	4H-15B
CV2	104624	CHECK VALVE, Large pump	1	4H-16B
CV3	104624	CHECK VALVE, Lift	1	4H-23A
CV4	102879	CHECK VALVE, Left front outrigger (opt.)	1	4H-24A
CV5	102879	CHECK VALVE, Right front outrigger (opt.)	1	4H-71A
CV6	102879	CHECK VALVE, Right rear outrigger (opt.)	1	
CV7	102879	CHECK VALVE, Left rear outrigger (opt.)	1	4H-72A
F1	109568	FILTER ASSEMBLY, Return	1	
	104254	ELEMENT, Filter	1	4H-73A
HP2	110652	HAND PUMP, Brake release	1	
M1	109311	MOTOR, Center drive hydraulic	1	4H-74A
M2	113444	MOTOR W/FLOW CONTROL, Hyd. generator (opt.)	1	
MB1	114178	MANIFOLD BLOCk, Main	1	4H-75A
MB2	103137	MANIFOLD BLOCK, Emergency lowering	1	
MB3	106688	MANIFOLD BLOCK, Holding valve	1	4H-76A
MB4	106688	MANIFOLD BLOCK, Holding valve	1	
MB6	110666	MANIFOLD BLOCK, Lift	1	4H-77A
MB7	111943	MANIFOLD BLOCK, Auto reset brake	1	
	110643	MANIFOLD BLOCK, Quick brake	1	4H-78A
MB8	111970	MANIFOLD BLOCK, Outrigger (opt.)	1	
MB9	103137	MANIFOLD BLOCK, Hyd. generator valve (opt.)	1	
MC1	110434	MOTION CONTROL ASSEMBLY	1	
01	112893	ORIFICE, Main lowering .120 dia.	1	
		(Used on 31' machines with serial nubmber 36533 and below)		C3
		(Used on 41' machines with serial nubmber 41989 and below)		
02	105501	ORIFICE, Lift cylinder .081 dia	2	C4
03	113343	ORIFICE, Free-wheeling valve .104 dia.	1	
		(Used on 31' machines with serial nubmber 36209 and below)		
	104/05	(Used on 41' machines with serial nubmber 40548 and below)		4H-26
04	104435	OKIFICE, Manual lowering .067 dia.		4H-26A
	110460			4H-27
K1	111643	RELIEF VALVE, System	1	4H-27A
H2	111643		1	MB5
H3	106557	RELIEF VALVE, Lift Gylinder	1	P2
K4	106557	RELIEF VALVE, Lift Cylinder	1	K4

Description	Units per Assy
VALVE. Manual lowering	1
VALVE, Brake release	1
VALVE, Brake lock	1
VALVE, Main lowering	1
VALVE, Lift cylinder holding	1
VALVE, Lift cylinder holding	1
VALVE, Lift	1
VALVE, Large pump dump	1
VALVE, Small pump dump	1
VALVE, Quick brake	1
VALVE, Free-wheeling	1
VALVE, Brake dump	1
VALVE, Brake feed	1
VALVE, Hydraulic generator (opt.)	1
VALVE, Series/parallel drive	1
VALVE, Reverse drive (includes 4H-16B)	1
VALVE, Reverse drive (includes 4H-15B)	1
VALVE, Right steer (includes 4H-24A)	1
VALVE, Left steer (includes 4H-23A)	1
VALVE, Left front outrigger retract (opt.)	1
(includes 4H-75A)	
VALVE, Right front outrigger retract (opt.)	1
(includes 4H-76A)	
VALVE, Right rear outrigger retract (opt.)	1
(includes 4H-77A)	
VALVE, Left rear outrigger retract (opt.)	1
(includes 4H-78A)	
VALVE, Left front outrigger retract (opt.)	1
(includes 4H-71A)	
VALVE, Right front outrigger retract (opt.)	1
(Includes 4H-72A)	
VALVE, Right rear outrigger retract (opt.)	1
(Includes 4H-73A)	
VALVE, Leπ rear outrigger retract (opt.)	1
(Includes 4H-74A)	
POWERED EXTENSION PLATFORM OPTION	
CYLINDER ASSEMBLY, Front powered extension	1
CVI INDER ASSEMBLY Front nowered extension	1
platform	1
 KIT Sool repair 	
VALVE Front platform extend (includes 4H-27)	
$V\Delta I VE$ Front platform extend (includes $4H_{-27\Delta}$)	
VALVE, Front platform extend (includes 4H-27A)	1
$V\Delta I VE$ Front platform extend (includes 4H-260)	
BLOCK Manifold	
PLIMP Hydraulic 1.2 cpm	1
VALVE Relief	

FIGURE 3-21. HYDRAULIC MANIFOLD COMPONENT & PORT IDENTIFICATION



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Notes

SECTION 4 TROUBLESHOOTING INFORMATION

The following pages contain a Table of Troubleshooting information for locating and correcting most service trouble which can develop. Careful inspection and accurate analysis of the systems listed in the Table of Troubleshooting Information will localize the trouble more quickly than any other method. This manual cannot cover all possible troubles and deficiencies that may occur. If a specific trouble is not listed, isolate the major component in which the trouble occurs, isolate whether the problem is electrical or hydraulic, and then isolate and correct the specific problem.

TROUBLE	PROBABLE CAUSE	REMEDY		
	ELECTRICAL SYSTE	Μ		
ALL CONTROLS INOPERATIVE	 Battery disconnected or discharged. Loose or dirty battery cables. Open or defective Main Power Disconnect Switch (S1) 	 Reconnect Battery. Recharge if discharged. Clean and tighten Battery Cables. Close switch. Replace if defective. 		
	 Loose or broken wire #03 from Main Power Disconnect Switch (S1) to Circuit Breaker (CB1). 	 Check Continuity. Replace if defective. 		
	5. Tripped or defective Circuit Breaker (CB1).	 Reset Circuit Breaker. Check for defective wiring. Replace Circuit Breaker if defective. 		
	6. Loose or broken wire #05 from Circuit Breaker (CB1) to Base Terminal Block (TB-1).	 Check Continuity. Replace if defective. 		
	 Loose or broken wire #05 from Base Terminal Block (TB-1) to Engine off/on switch (S30). 	 Check Continuity. Replace if defective. 		
	8. Loose or broken wire #00 from Battery (B1) to Circuit Breaker (CB3).	8. Check Continuity. Replace if defective.		
	9. Iripped or defective Circuit Breaker (CB3).	 Reset Circuit Breaker. Check for defective wiring. Replace Circuit Breaker if defective. 		
	10. Loose or broken wire #02 from Circuit Breaker (CB3) to Base Terminal Block (TB-1).	10. Check Continuity. Replace if defective.		
NO POWER TO PLATFORM	1. Open or defective Engine off/on switch (S30).	1. Close switch. Replace if defective.		
	 Loose or broken wire #07 from Engine Off/on Switch (S30) to Base Terminal Block (TB-1) 	2. Check continuity. Replace if defective.		
	 Loose or broken wire #07 from Base Terminal Block (TB-1) to Emergency Stop Switch (S4). 	 Check continuity. Replace if defective. 		
ALL FUNCTIONS	1. Open or defective Emergency Stop Switch (S4)	1. Close switch. Replace if defective.		
PLATFORM	 Loose or broken wire #08 from Emergency Stop Switch (S4) to Key Select Switch (S3). 	2. Check continuity. Replace if defective.		
	3. Open or defective Key Select Switch (S3).	3. Close switch. Replace if defective.		

TROUBLE	PROBABLE CAUSE REMEDY	
	ELECTRICAL SYSTE	M
ENGINE WILL NOT CRANK FROM PLATFORM	 Open or defective Key Select Switch Block (S3-1). Loose or broken wire #10 from Key Select Switch Block (S3-1) to Start Switch (S15). Defective Start Switch (S15). Loose or broken wire #32 from Start Switch (S15) to Relay (32CR). Defective Relay (32CR). Loose or broken wire #41 from Relay (32CR). Defective Relay (34CR). Loose or broken wire #02 to Relay (10BCR-2). Loose or broken wire #05 from Base Terminal Block (TB-1) to Relay (32CR). Loose or broken wire #32A from Relay (32CR) to Engine Start Solenoid (32ACR). 	 Check switch block. Replace if defective. Check continuity. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective. Check Relay. Replace if defective. Check continuity. Replace if defective.
ENGINE WILL NOT CRANK FROM ENGINE CONTROLS	 Loose or broken wire #05A from Engine Off/on switch (S30) to Engine Start Switch (S32). Defective Start Switch (S32). Loose or broken wire #32A from Start Switch (S32) to Starter Solenoid. 	 Check continuity. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective.
ENGINE CRANKS BUT WILL NOT START.	 Open Diode (D32A) from Engine Start Switch (S32). Loose or broken wire (32B) from Diode (D32A) to Vacuum Switch (VS1). Defective Vacuum Switch (VS1). Loose or broken wire #55 from Vacuum Switch (VS1) to Fuel Relay (55CR). Defective Fuel Relay (55CR). Loose or broken wire #02 from Fuel Relay (55CR) to Base Terminal Block (TB-1). Loose or broken wire #37 from Ignition Coil (Kubota) or Ignition Module (Ford) to Relay (55CR). Loose or broken wire #56 from Fuel Relay (55CR) to Fuel Select Switch (S33). Defective Fuel Select Switch (S33). Loose or broken wires 50 (L.P. or 2G11 Gasoline) from Fuel Select Switch (S33) to Fuel Valve 2P50(L.P. or 2G11(Gasoline) or 2D37. 	 Check diode. Replace if defective. Check continuity. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective. Check Relay. Replace if defective. Check continuity. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY		
	ELECTRICAL SYSTE	M		
ENGINE CRANKS BUT WILL NOT START.	 Loose or broken wire #11 from Fuel Valve (2G11) to Fuel Pump (FP1) (gasoline mode only). Defective Fuel Pump (FP1) (gasoline mode only). Open Diode (D57) from Starter Motor to Ignition Coil (Kubota) or Ignition Module (Ford). No spark. 	 Check continuity. Replace if defective. Check Pump. Replace if defective. Check diode. Replace if defective. Refer to Engine Manufacturing Service Manual. 		
ENGINE STARTS BUT WILL NOT KEEP RUNNING	 Engine oil level low. Engine over heated. Defective Temperature Switch (TPS1). Loose or broken wire #2B from Temperature Switch (TPS1) to Oil Pressure Switch (OPS1). Defective Oil Pressure Switch (OPS1). Loose or broken wire #2A from Oil Pressure Switch (OPS1) to Relay (10BCR2). Defective Relay (10BCR2). Loose or broken wire #10B from Relay (10BCR2). Loose or broken wire #10A from Base Terminal Block (TB-1) to Relay (10BCR2). Loose or broken wire #37 from Relay (10BCR2) to Ignition Coil (Kubota) or Ignition Module (Ford). 	 Refill to proper Level. Let engine cool down. Check for defective Cooling System. Check switch. Replace if defective Check continuity. Replace defective. Check switch. Replace if defective Check continuity. Replace defective. Check Relay. Replace if defective. Check continuity. Replace defective. Check continuity. Replace 		
CHOKE INOPERATIVE FROM PLATFORM OR ENGINE CONTROLS	 Loose or broken wire #31A from Choke Switch (S31) to Choke Solenoid (CS31A). Defective Choke Solenoid (CS31A). 	 Check continuity. Replace if defective. Check solenoid. Replace if defective. 		
CHOKE INOPERATIVE FROM PLATFORM	 Loose or broken wire #10 from Key Select Switch (S3) to Choke Switch (S13). Defective Choke Switch (S13). Loose or broken wire #31 to Relay (31CR). Defective Relay (31CR). Loose or broken wire #02 from Relay (31CR) to Base Terminal Block (TB-1). Loose or broken wire #05 from Relay (31CR) to Base Terminal Block (TB-1). Loose or broken wire #31A from Relay (31CR) to Choke Switch (S31). 	 Check continuity. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective. Check relay. Replace if defective. Check continuity. Replace if defective. 		

TROUBLE	PROBABLE CAUSE REMEDY		
	ELECTRICAL SYSTE	M	
CHOKE INOPERATIVE FROM ENGINE CONTROLS	1. Loose or broken wire #05A from Engine Off/On Switch (S30) to Choke Switch (S31).	 Check continuity. Replace if defective. 	
	2. Defective Choke Switch (S31).	2. Check switch. Replace if defective.	
HIGH THROTTLE INOPERATIVE	 Loose or broken wire #10 from Key Select Switch (S3) to Low/High Throttle Switch (S14). 	1. Check continuity. Replace if defective.	
	2. Defective Low/High Throttle Switch (S14).	2. Check switch. Replace if defective.	
	 Loose or broken wire #34 from Low/High Throttle Switch (S14) to Relay (34CR). Defective Paler (24CR) 	 Check continuity. Replace if defective. Check Palaxy Paralace if defective. 	
	 Delective Relay (34CR). Loose or broken wire #42 from Relay (34CR) to Relay (10BCR2). 	 Check Relay. Replace if defective. Check continuity. Replace if defective. 	
	 Defective Relay (10BCR2). Loose or broken wire #02 from Relay (10BCR2) to Base Terminal Block (TB-1). 	 Check relay. Replace if defective. Check continuity. Replace if defective. 	
	 Loose or broken wire #05 from Base Terminal Block (TB-1) to Relay (32CR). 	8. Check continuity. Replace if defective.	
	 Defective Relay (32CR). Loose or broken wire #43 from Relay (32CR) to Relay (34CR) 	 Check relay. Replace if defective. Check continuity. Replace if defective 	
	 Loose or broken wire #34A from Relay (34CR) to High Throttle Solenoid (HTS- 244) 	11. Check continuity. Replace if defective.	
	34A).12. Defective High Throttle Solenoid (HTS- 34A) (Kubota engines).	12. Check solenoid. Replace if defective.	
	 Defective Precision Governor. (Ford engine). 	13. Refer to Section 5 for Precision Governor Troubleshooting.	
DRIVE AND STEER	1. Key Select Switch (S3) in lift position.	1. Turn Key Select Switch to drive	
(31' Models with Serial	2. Defective Drive Switch (S3-4) in Key	2. Check switch. Replace if defective.	
Number 36381 and Above) (41' Models with Serial	 Loose or broken wire #12 from Drive Switch (S3-4) to Platform Terminal Block (TB 5) 	3. Check continuity. Replace if defective.	
Number 40841 and Above)	 Loose or broken wire #12 from Platform Terminal Block (TB-5) to Joystick Controller (SZ) 	 Check continuity. Replace if defective. 	
	5. Loose or broken wire #01 from Relay	5. Check continuity. Replace if	
	 Loose or broken wire #01 from Base 	6. Check continuity. Replace if	
	 Defective Relay (61CR). Loose or broken wire #02 from Relay (61CR) to Receive Relay (61CR). 	 Check relay. Replace if defective. Check continuity. Replace if defective. 	
	 Loose or broken wire #01 from Relay (61CR) to Outrigger Switch (LS64). 	 9. Check continuity. Replace if defective. 	
	 Defective Outrigger Switch (LS64). Loose or broken wire #64 from Outrigger Switch (LS64) to Outrigger Switch (LS63). 	 Check switch. Replace if defective. Check continuity. Replace if defective. 	

TROUBLE	PROBABLE CAUSE	REMEDY
	ELECTRICAL SYSTE	Μ
DRIVE AND STEER INOPERATIVE (31' Models with Serial Number 36381 and	 Defective Outrigger Limit Switch (LS63). Loose or broken wire #63 from Outrigger Limit Switch (LS63) to Outrigger Limit Switch (LS62). 	 Check switch. Replace if defective. Check continuity. Replace if defective.
Above) (41' Models with Serial Number 40841 and	 Defective Outrigger Limit Switch (LS62). Loose or broken wire #62 from Outrigger Limit Switch (LS62) to Outrigger Limit Switch (LS61). 	 Check switch. Replace if defective. Check continuity. Replace if defective.
(Continued)	 Defective Outrigger Limit Switch (LS61). Loose or broken wire #61 from Outrigger Limit Switch (LS61) to Relay (61CR). 	 Check switch. Replace if defective. Check continuity. Replace if defective. Check continuity. Deplace if defective.
	 Loose of broken wire #01A from Relay (61CR) to Base Terminal Block (TB-2). Loose or broken wire #01A from Base Terminal Block (TB-2) to Base Terminal 	 Check continuity. Replace if defective. Check continuity. Replace if defective.
	Block (TB-3). 20. Loose or broken jumper wire #01A to wire #04.	20. Check continuity. Replace if defective.
	Terminal Block (TB-3) to Relay Panel.	defective.
DRIVE AND STEER INOPERATIVE (31' Models with Serial	 Key Select Switch (S3) in lift position. Defective Drive Switch (S3-4) in Key 	 Turn Key Select Switch to drive position. Check switch. Replace if defective.
Number 36380 and Below) (41' Models with Serial	 Select Switch (S3). Loose or broken wire #12 from Drive Switch (S3-4) to Platform Terminal Block 	 Check continuity. Replace if defective.
Number 40840 and Below)	 (1B-5). 4. Loose or broken wire# 12 from Platform Terminal Block (TB-5) to Joystick Controller (S7). 	 Check continuity. Replace if defective.
	5. Loose or broken wire #01 from Relay (28CR) to Base Terminal (TB-2).	5. Check continuity. Replace if defective.
	 Loose or broken wire #01 from Base Terminal Block (TB-2) to Relay (61CR). Defective Relay (61CR) 	 Check continuity. Replace if defective. Check relay. Beplace if defective
	8. Defective Proximity Switch (PS61).	 Refer to Section 5. for Proximity Switch Test Procedures.
	 Loose or broken wire #79 from Relay (61CR) to Relay (62CR). Defective Relay (62CR). 	 9. Check continuity. Replace if defective. 10. Check relay. Replace if defective.
	11. Defective Proximity Switch (PS62).	11. Refer to Section 5. for Proximity Switch Test Procedures.
	 Loose or broken wire #80 from Relay (62CR) to Relay (63CR). Defective Relay (63CR) 	 Check continuity. Replace if defective. Check relay. Replace if defective
	14. Defective Proximity Switch (PS63).	 Oneck relay. Replace in delective. Refer to Section 5. for Proximity Switch Test Procedures
	 15. Loose or broken wire #81 from Relay (63CR) to Relay (64CR). 16. Defective Relay (64CR) 	 Check continuity. Replace if defective. Check relay. Beplace if defective.
	17. Defective Proximity Switch (PS64).	 17. Refer to Section 5. for Proximity Switch Test Procedures.
	18. Loose or broken wire #4 from Relay (64CR) to Relay Panel.	18. Check continuity. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	ELECTRICAL SYSTE	M
BRAKE WILL NOT RELEASE	 Loose or broken wire #30 from Diodes (D15A-2) and (D16A-2) to Relay (30CR). Defective Relay (30CR). Loose or broken wire #02 from Relay (30CR) to Base Terminal Block (TB-1). Loose or broken wire #10A from Relay (18CR) to Relay (30CR). Loose or broken wire #30A from Relay (30CR) to Base Terminal Block (TB-1). Loose or broken wire #30A from Base Terminal Block (TB-1) to Brake Dump Valve (3H-30A-1) or Brake Feed Valve (3H-30A-2). Defective Valve Coil (2H-30A-2) Brake Dump or (2H-30A-2) Brake Feed. Loose or broken wire #02 from (2H-30A-1) Brake Dump or (2H-30A-2) Brake Feed Coil to Base Terminal Block (TB-1). Open Diode (D30). Loose or broken wire #25 from Diode (D30) to Base Terminal Block (TB-1). Loose or broken wire #25 from Base Terminal Block (TB-1) to Quick Brake Valve Coil (2H-25). Defective Quick Brake Valve Coil (2H-25). Loose or broken wire #02 from Quick Brake Valve (2H-25) to Base Terminal Block (TB-1). 	 Check continuity. Replace if defective. Check relay. Replace if defective. Check continuity. Replace if defective. Check continuity through coil. Replace if defective. Check continuity. Replace if defective.
STEER RIGHT INOPERATIVE	 Defective Steer Right Switch (S7-2) in Joystick Controller (S7). Loose or broken wire #23 from Steer Right Switch (S7-2) to Platform Terminal Block (TB-5). Loose or broken wire #23 from Platform Terminal Block (TB-5) to Relay (23CR). Defective Relay (23CR). Loose or broken wire #23A from Relay (23CR) to Base Terminal Block (TB-1). Loose or broken wire #23A from Relay (23CR) to Steer Right Valve Coil (4H-23A). Defective Steer Right Valve Coil (4H-23A). Loose or broken wire #02 from Steer Right Valve Coil (4H-23A). Loose or broken wire #02 from Relay (23CR) to Base Terminal Block (TB-1). Open Diode (D23A). 	 Check switch. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective. Check Relay. Replace if defective. Check continuity. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	ELECTRICAL SYSTE	Μ
STEER LEFT INOPERATIVE	 Defective Steer Left Switch (S7-3) in Joystick Controller (S7). Loose or broken wire #24 from Steer Left Switch (S7-3) to Platform Terminal Block (TB-5). Loose or broken wire #24 from Platform Terminal Block (TB-5) to Relay (24CR). 	 Check switch. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective.
	 Defective Relay (24CR). Loose or broken wire #24A from Relay (24CR) to Base Terminal Block (TB-1). Loose or broken wire #24A from Relay (24CR) to Steer Left Valve Coil (4H-24A). 	 Check Relay. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace of defective.
	 Defective Steer Left Valve Coll (4H-24A). Loose or broken wire #02 from Steer Left Valve Coil (4H-24A). Loose or broken wire #02 from Relay (24CR) to Base Terminal Block (TB-1). 	 Check continuity through coll. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective.
DRIVE REVERSE INOPERATIVE	 Open Diode (D24A). Defective Drive/reverse Switch (S7-4) in Joystick Controller (S7). Defective Joystick Controller (S7). Loose or broken wire #15 from Joystick (S7) to Platform Terminal Block (TB-5). Loose or broken wire #15 from Platform Terminal Block (TB-5) to Relay (15CR). Defective Relay (15CR). Loose or broken wire #02 from Relay (15CR) to Base Terminal Block (TB-1). Loose or broken wire #04 from Relay (16CR) to Relay (15CR). Loose or broken wire #15A from Relay (15CR) to Relay (17D). Defective Relay (1TD). Defective Relay (1TD). Loose or broken wire #15B from Relay (15CR) to Relay (17D). Loose or broken wire #02 from Relay (15CR) to Relay (17D). Loose or broken wire #03 from Relay (17D) to Reverse Valve Coil (4H-15B). Defective Reverse Valve Coil (4H-15B). 	 Check Diode. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective. Check relay. Replace if defective. Check continuity. Replace if defective. Check relay. Replace if defective. Check continuity. Replace if defective.
DRIVE FORWARD INOPERATIVE	 Defective Drive Forward Switch (S7-5) in Joystick Controller (S7). Defective Joystick Controller (S7). Loose or broken wire #16 from Joystick Controller (S7) to Platform Terminal Block (TB-5). Loose or broken wire #16 from Platform Terminal Block (TB-5) to Relay (16CR). Defective Relay (16CR). Loose or broken wire #02 from Relay (16CR) to Base Terminal Block (TB-1). Loose or broken wire #16A from Relay (16CR) to Relay (1TD). 	 Check Switch. Replace if defective. Check Joystick. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective. Check relay. Replace if defective. Check continuity. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	ELECTRICAL SYSTE	Μ
DRIVE FORWARD INOPERATIVE (Continued)	 Defective Relay (1TD). Loose or broken wire #16B from Relay (1TD) to Forward Valve Coil (4H-16B). Defective Forward Valve Coil (4H-16B). Loose or broken wire #02 from Forward Valve Coil (4H-16B) to Base Terminal Block (TB-1). Open Diode (D16A-1 or D16A-2). 	 Check relay. Replace if defective. Check continuity. Replace if defective. Check continuity through coil. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective. Check diode. Replace if defective.
FIRST DRIVE SPEED AND STEERING INOPERATIVE	 Loose or broken wire #21 from Base Terminal Block (TB-1) to Relay (17ACR). Defective Relay (17ACR). Loose or broken wire #18A from Relay (17ACR) to Small Pump Dump Coil (2H-18A). Defective Small Pump Dump Valve Coil (2H-18A). Loose or broken wire #02 from Small Pump Dump Valve Coil (2H-18A) to Base Terminal Block (TB-1). 	 Check continuity. Replace if defective. Check relay. Replace if defective. Check continuity. Replace if defective. Check continuity through coil. Replace if defective. Check continuity. Replace if defective.
SECOND DRIVE SPEED INOPERATIVE	 Defective Second Speed Switch (S7-1) in Joystick Controller (S7). Defective Joystick Controller (S7). Loose or broken wire #19 from Joystick Controller (S7) to Platform Terminal Block (TB-5). Loose or broken wire #19 from Platform Terminal Block (TB-5) to Base Terminal Block (TB-1). Loose or broken wire #19 from Base Terminal Block (TB-1) to relay (35CR). Defective Relay (35CR). Loose or broken wire #10A from Base Terminal Block (TB-3) to High Drive/Tilt Override Limit Switch (LS5). Misadjusted or defective High Drive/Tilt Override Limit Switch (LS5). Loose or broken wire #35 from High Drive/Tilt Override Limit Switch (LS5) to Base Terminal Block (TB-3). Loose or broken wire #35 from Base Terminal Block (TB-3) to Base Terminal Block (TB-2). Loose or broken wire #35 from Base Terminal Block (TB-3) to Base Terminal Block (TB-2). Loose or broken wire #17 from Relay (35CR) to Base Terminal Block (TB-1). Loose or broken wire #17 from Relay (35CR) to Relay (17CR). Defective Relay (17CR). Loose or broken wire #10A from Base Terminal Block (TB-1). Loose or broken wire #17 from Relay (17CR) to Base Terminal Block (TB-1). Loose or broken wire #17A from Relay (17CR) to Base Terminal Block (TB-1). 	 Check switch. Replace if defective. Check Joystick. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective. Check Relay. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective. Adjust switch. Replace if defective. Check continuity. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	ELECTRICAL SYSTE	M
SECOND DRIVE SPEED INOPERATIVE (Continued)	 Loose or broken wire #17A from Relay (17CR) to Relay (17ACR). Defective Relay (17ACR). Loose or broken wire #02 from Relay (17ACR) to Base Terminal Block (TB-1). 	 Check continuity. Replace if defective. Check relay. Replace if defective. Check continuity. Replace if defective.
THIRD DRIVE SPEED INOPERATIVE	 Low/High Torque Switch (S41) in low position or defective. Defective Third Speed Switch (S7-6) in Joystick Controller (S7). Defective Joystick Controller (S7). Loose or broken wire #18 from Joystick Controller (S7) to Low/High Torque Switch (S41). Loose or broken wire #18 from Low/High Toque Switch to Platform Terminal Block (TB-5). Loose or broken wire #18 from Platform Terminal Block (TB-5) to Relay (18CR). Defective Relay (18CR). Loose or broken wire #02 from Relay (18CR) to Base Terminal Block (TB-2). Loose or broken wire #10A from Relay (17CR) to Relay (18CR). Loose or broken wire #18A from Relay (18CR) to Relay (17ACR). 	 Turn Low/High Torque Switch to High Position. Check Switch. Replace if defective. Check Joystick. Replace if defective. Check continuity. Replace if defective. Check relay. Replace if defective. Check continuity. Replace if defective.
HIGH/LOW RANGE SPEED INOPERATIVE	 Loose or broken wire #12 from Key Select Switch (S3) to Low/High Range Switch (S29). Defective Low/High Range Switch (S29). Loose or broken wire #20 from Low/ High Range Switch (S29) to Low/High Torque Switch (S41). Defective Low/High Torque Switch (S41). Loose or broken wire #20A from Low/ High Torque Switch (S41) to Platform Terminal Block Switch (TB-5). Loose or broken wire #20A from Platform Terminal Block (TB-5) to Relay (20ACR). Defective Relay (20ACR). Loose or broken wire #02 from Relay (20ACR) to Base Terminal Block (TB-1). Loose or broken wire #04 from Relay (61CR) to Relay (35CR). Defective Relay (35CR). 	 Check continuity. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective. Check Continuity. Replace if defective. Check Continuity. Replace if defective. Check relay. Replace if defective. Check continuity. Replace if defective. Check relay. Replace if defective. Check relay. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	ELECTRICAL SYSTE	M
HIGH/LOW RANGE SPEED INOPERATIVE (Continued)	 Loose or broken wire #44 from Relay (35CR) to Relay (20ACR). Loose or broken wire #20B from Relay (20ACR) to Base Terminal Block (TB-1). Loose or broken wire #20B from Base Terminal Block (TB-1) to Series/Parallel Valve (3H-20B). Defective Series/Parallel Valve Coil (3H- 20B). Loose or broken wire #02 from Series/ Parallel Valve (3H-20B) to Base Terminal Block (TB-1). 	 Check continuity. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective. Check continuity through coil. Replace if defective. Check continuity. Replace if defective.
ALL OUTRIGGER INOPERATIVE	 Key Select Switch (S3) in Drive Position. Loose or broken wire #09 from Key Select Switch (S3) to Outrigger Toggle Switches (S20,S21,S22,S23). Loose or broken wire #17B from Relay (17BCR) to Outrigger Holding Valve Coil (2H-17B). Defective Outrigger Holding Valve Coil (2H-17B). Loose or broken wire #02 from Outrigger Holding Valve Coil (2H-17B) to Outrigger Terminal Block (TB-4). Defective Relay (17BCR). Loose or broken wire #02 from Relay (17BCR) to Outrigger Terminal Block (TB-4). Loose or broken wire #10A from Relay (17BCR) to Outrigger Terminal Block (TB-4). Loose or broken wire #17A from Relay (17BCR) to Base Terminal Block (TB-1). Loose or broken wire #35 from Base Terminal Block (TB-2) to Relay (78CR). Loose or broken wire #02 from Outrigger Terminal Block (TB-4) to all Valve Coils. 	 Turn key to lift position. Check continuity. Replace if defective. Check continuity. Replace if defective. Check continuity through coil. Replace if defective. Check continuity. Replace if defective. Check relay. Replace if defective. Check continuity. Replace if defective.
TROUBLE	PROBABLE CAUSE	REMEDY
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	ELECTRICAL SYSTE	Μ
LEFT FRONT OUTRIGGER	1. Defective Left Front Outrigger Switch (S20).	1. Check switch. Replace if defective.
INOPERATIVE	2. Loose or broken wire #71 (up) or #75 (down) from Left Front Outrigger Switch (S20) to Platform Terminal Block (TB-5).	 Check continuity. Replace if defective.
	3. Loose or broken wire #71 (up) or #75 (down) from Platform Terminal Block (TB-5) to Relay (71CR) (up) or (75CR) (down).	 Check continuity. Replace if defective.
	4. Defective Relay (71CR) (up) or (75CR) (down).	4. Check relay. Replace if defective.
	 Loose or broken wire #02 from Relay (71CR) (up) or (75CR) (down) to Base Terminal Block (TB-1). 	 Check continuity. Replace if defective.
	6. Loose or broken wire #35 from Relay (71CR) (up) or (75CR) (down) to Relay (78CR).	 Check continuity. Replace if defective.
	7. Open Diode (D71A) (up) or (D75A) (down).	7. Check diode. Replace if defective.
	8. Loose or broken wire #71A (up) or (75A) (down) from Relay (71CR) (up) or (75CR) (down) to Valve Coil (4H-71A) (up) or (4H-75A) (down)	 Check continuity. Replace if defective.
	 9. Defective Valve Coil (4H-71A) (up) or (4H-75A) (down). 	9. Check continuity through coil. Replace if defective.
	10. Loose or broken wire #02 from Valve Coil (4H-71A) (up) or (4H-75A) (down). to Outrigger Terminal Block (TB-4).	10. Check continuity. Replace if defective.
	1. Defective Right Front Outrigger Switch (S21).	1. Check switch. Replace if defective.
INOPERATIVE	 Loose or broken wire #72(up) or #76(down) from Right Front Outrigger Switch (S21) to Platform Terminal Block (TB-5). 	 Check continuity. Replace if defective.
	3. Loose or broken wire #72(up) or #76(down) from Platform Terminal Block (TB-5) to Relay (72CR)(up) or (76CR) (down).	 Check continuity. Replace if defective.
	4. Defective Relay (72CR)(up) or (76CR)(down).	4. Check relay. Replace if defective.
	5. Loose or broken wire #02 from Relay (72CR)(up) or (76CR)(down) to Base Terminal Block (TB-1).	 Check continuity. Replace if defective.
	6. Loose or broken wire #35 from Relay (72CR)(up) or (76CR)(down) to Relay (78CR).	 Check continuity. Replace if defective.
	7. Òpen Diode (D72A)(up) or (D76A)(down).	7. Check diode. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	ELECTRICAL SYSTE	M
RIGHT FRONT OUTRIGGER INOPERATIVE	8. Loose or broken wire #72A(up) or (76A)(down) from Relay (72CR)(up) or (76CR)(down) to Valve Coil (4H-72A)(up) or (4H-76A)(down).	8. Check continuity. Replace if defective.
	 Defective Valve Coil (4H-72A)(up) or (4H-76A)(down). Loose or broken wire #02 from Valve Coil (4H-72A)(up) or (4H-76A)(down) to Outrigger Terminal Block (TB-4). 	 9. Check continuity through coil. Replace if defective. 10. Check continuity. Replace if defective.
LEFT REAR OUTRIGGER	1. Defective Left Rear Outrigger Switch	1. Check switch. Replace if defective.
INOPERATIVE	 Loose or broken wire #74(up) or #78(down) from Left Rear Outrigger Switch (S24) to Platform Terminal Block (TB-5). 	 Check continuity. Replace if defective.
	 Loose or broken wire #74(up) or #78(down) from Platform Terminal Block (TB-5) to Relay (74CR)(up) or (78CR)(down) 	 Check continuity. Replace if defective.
	 Defective Relay (74CR)(up) or (78CR)(down). 	4. Check Relay. Replace if defective.
	5. Loose or broken wire #02 from Relay (74CR) (up) or (78CR) (down) to Base Terminal Block (TB-1).	 Check continuity. Replace if defective.
	 Loose or broken wire #35 from Relay (74CR) (up) to Relay (78CR) (down). Open Diode (D74A) (up) or 	 Check continuity. Replace if defective. Check diode. Replace if defective.
	(D78A)(down). 8. Loose or broken wire #74A(up) or #78A(down) from Relay (74CR)(up) or (78CR)(down) to Valve Coil (4H-74A)(up) or (4H-78A)(down).	8. Check continuity. Replace if defective.
	9. Defective Valve Coil (4H-74A)(up) or (4H-78A)(down).	9. Check continuity through coil. Replace if defective.
	10. Loose or broken wire #02 from Valve Coil (4H-74A)(up) or (4H-78A)(down) to Base Terminal Block (TB-4).	10. Check continuity. Replace if defective.
RIGHT REAR	1. Defective Right Rear Outrigger Switch (S22).	1. Check switch. Replace if defective.
INOPERATIVE	2. Loose or broken wire #73(up) or #77(down) from Right Rear Outrigger Switch (S22) to Platform Terminal Block (TB-5).	 Check continuity. Replace if defective.
	3. Loose or broken wire #73(up) or #77(down) from Platform Terminal Block (TB-5) to Relay (73CR)(up) or (77CR)(down).	 Check continuity. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	ELECTRICAL SYSTE	M
RIGHT REAR	4. Defective Relay (73CR)(up) or	4. Check Relay. Replace if defective.
INOPERATIVE (Continued)	 Loose or broken wire #02 from Relay (73CR)(up) or (77CR)(down) to Base Terminal Block (TB-1) 	5. Check continuity. Replace if defective.
	 Loose or broken wire #35 from Relay (73CR)(up) or (77CR)(down) to Relay (78CR). 	 Check continuity. Replace if defective.
	7. Open Diode (D73A)(up) or (D77A)(down).	7. Check diode. Replace if defective.
	 Loose or broken wire #73A(up) or #77A(down) from Relay (73CR)(up) or (77CR)(down) to Valve Coil (4H-73A)(up) or (4H-77A)(down). 	 Check continuity. Replace if defective.
	 Defective Valve Coil (4H-73A)(up) or (4H-77A)(down). 	9. Check continuity through coil. Replace if defective.
	10. Loose or broken wire #02 from Valve Coil (4H-73A)(up) or (4H-77A)(down) to Base Terminal Block (TB-4).	10. Check continuity. Replace if defective.
PLATFORM WILL NOT	1. Loose or broken wire #14 from Base Terminal Block (TB-1).	1. Check continuity. Replace if defective.
RETRACTED OR EXTENDED	 Defective Relay (14CR). Loose or broken wire #02 from Relay (14CR) to Base Terminal Block (TB-1). If no power @ wire #36A then refer to 	 Check relay. Replace if defective. Check continuity. Replace if defective.
	 Proxy or Limit Switch Troubleshooting. Loose or broken wire #36A from Base Terminal Block (TB-3) to End of Stroke Limit Switch (LS4) 	4. Check continuity. Replace if defective.
	 Stuck or defective End of Stroke Limit Switch (LS4). 	5. Clean switch. Replace if defective.
	 Loose or broken wire #36B from End of Stroke Limit Switch (LS4) to Base Terminal Block (TB-3) 	6. Check continuity. Replace if defective.
	 Loose or broken wire #36B from Base Terminal Block (TB-3) to Base Terminal Block (TB-2). 	7. Check continuity. Replace if defective.
	8. Loose or broken wire #36B from Base Terminal Block (TB-2) to Relay (14CR).	8. Check continuity. Replace if defective.
	9. Loose or broken wire #14A from Relay (14CR) to Relay (28CR).	 Check continuity. Replace if defective.
	 Defective Relay (28CR). Loose or broken wire #14B from Relay 	10. Check relay. Replace if defective. 11. Check continuity. Replace if
	 (28CR) to Base Terminal Block (TB-1). 12. Loose or broken wire #14B from Base Terminal Block (TB-1) to Up Valve Coil (2H-14B) 	12. Check continuity. Replace if defective.
	13. Defective Up Valve Coil (2H-14B).	13. Check continuity through coil. Replace of defective.
	14. Loose or broken wire #02 from Up Coil (2H-14B) to Base Terminal Block (TB-1)	14. Check continuity. Replace if defective.
	15. Open Diode (D14B).	15. Check diode. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	ELECTRICAL SYSTE	EM
PLATFORM WILL NOT LIFT OR LOWER FROM	1. Key Select Switch (S3) in drive position.	1. Turn Key Select Switch to the lift position.
PLATFORM CONTROLS ONLY	2. Defective Lift Switch (S3-3) in Key Select Switch (S3).	2. Check switch. Replace if defective.
	3. Loose or broken wire #09 from Lift Switch (S3-3) to Lift Enable Switch (S9A)	3. Check continuity. Replace if defective.
	 Loose or broken wire #09B from Lift Enable Switch (S9A) to Lift Up/Down Switch (S5). 	4. Check continuity. Replace if defective.
PLATFORM WILL NOT LIFT FROM PLATFORM OR BASE CONTROLS WITH OUTRIGGERS	 Outrigger not fully retracted. Loose or broken wire #10A from Relay (65CR) to Relay (61CR) through Relay (68CR). 	 Retract outriggers fully. Check continuity. Replace if defective.
RETRACTED (LIFT OPERATES CORRECTLY WITH	 Loose or broken wire #10A from Relay (68CR) to Outrigger Terminal Block (TB-4). 	3. Check continuity. Replace if defective.
OUTRIGGERS EXTENDED) (31' Models with Serial	 Defective Relay (61CR). Defective Proximity Switch (PS61). 	 Check relay. Replace if defective. Refer to Section 5 for Proximity Testing Procedures.
Number 36380 and Below) (41' Models with Serial	 Loose or broken wire #87 from (61CR) to (62CR). Defective Belay (62CB) 	 Check continuity. Replace if defective. Check relay. Replace if defective
Number 40840 and Below)	 Befective Proximity Switch (PS62). 	 8. Refer to Section 5 for Proximity Switch Test Procedures.
	9. Loose or broken wire #88 from Relay (62CR) to Relay (63CR).	9. Check continuity. Replace if defective.
	 Defective Relay (63CR). Defective Proximity Switch (PS63). 	 Check relay. Replace it detective. Refer to Section 5 for Proximity Switch Testing Procedures
	12. Loose or broken wire #89 from Relay (63CR) to Relay (64CR).	12. Check continuity. Replace if defective.
	 Defective Relay (64CR). Defective Proximity Switch (PS64). 	 Check relay. Replace if defective. Refer to Section 5 for Proximity Switch Test Procedures
	15. Loose or broken wire #36 to Base Terminal Block (TB-3).	 15. Check continuity. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	ELECTRICAL SYSTE	Μ
PLATFORM WILL NOT LIFT FROM PLATFORM OR BASE CONTROLS WITH OUTRIGGERS RETRACTED (LIFT OPERATES CORRECTLY WITH OUTRIGGERS EXTENDED) (31' Models with Serial	 Outriggers not fully retracted. Loose or broken Jumper wire from wire 10A to wire #36 on Base Terminal Block (TB-3). Loose or broken wire #36 from Base Terminal Block (TB-3) to Relay (61CR). Defective Relay (61CR). Loose or broken wire #02 from Relay (61CR) to Base Terminal Block (TB-1). Defective Outrigger Limit Switch (LS64). 	 Fully retract outrigger cylinders. Check continuity. Replace if defective. Check continuity. Replace if defective. Check relay. Replace if defective. Check continuity. Replace if defective. Check switch. Replace if defective. Check switch. Replace if defective.
Number 36381 and Above) (41' Models with Serial Number 40841 and Above)	 Loose or broken wire #64 from Outrigger Limit Switch (LS64) to Outrigger Terminal Block (TB-4). Loose or broken wire #64 from Outrigger Terminal Block (TB-4) to Outrigger Limit Switch (LS63). 	 Check continuity. Replace if defective. Check continuity. Replace if defective.
	 9. Defective Outrigger Limit Switch (LS63). 10. Loose or broken wire #63 from Outrigger 	 9. Check continuity. Replace if defective. 10. Check continuity. Replace if
	 Limit Switch (LS63) to Outrigger Terminal Block (TB-4). 11. Loose or broken wire #63 from Outrigger Terminal Block (TB-4) to Outrigger Limit Switch (LS62). 12. Defective Limit Switch (LS62). 13. Loose or broken wire #62 from Outrigger 	 detective. Check continuity. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective
	 Limit Switch (LS62) to Outrigger Terminal Block (TB-4). 14. Loose or broken wire #62 from Outrigger Terminal Block (TB-4) to Outrigger Limit Switch (LS61). 	 14. Check continuity. Replace if defective. 15. Check switch. Replace if defective.
	 Defective Outrigger Limit Switch (LS61). Loose or broken wire #61 from Outrigger Limit Switch (LS61) to Outrigger Terminal Block (TB.4) 	16. Check continuity. Replace if defective.
	 17. Loose or broken wire #65 from Relay (61CR) to Relay (65CR). 18. Defective Relay (65CR). 19. Loose or broken wire #02 from Relay 	 17. Check continuity. Replace if defective. 18. Check relay. Replace if defective. 19. Check continuity. Replace if
	 (65CR) to Base Terminal Block (TB-1). 20. Loose or broken wire #10A from Base Terminal Block (TB-1) to Relay (65CR). 	defective. 20. Check continuity. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	ELECTRICAL SYSTE	M
PLATFORM WILL NOT LIFT FROM PLATFORM OR BASE CONTROLS WITH OUTRIGGERS EXTENDED (31' Models with Serial Number 36380 and Below) (41' Models with Serial Number 40840 and Below)	 Outriggers not extended enough. Defective Relay (65CR). Defective Proximity Switch (PS65). Loose or broken wire #82 from Relay (65CR) to Relay (66CR). Defective Relay (66CR). Defective Proximity Switch (PS66). Loose or broken wire #83 from Relay (66CR) to Relay (67CR). Defective Relay (67CR). Defective Relay (67CR). Defective Proximity Switch (PS67). Loose or broken wire #84 from Relay (67CR) to Relay (68CR). Loose or broken wire #84 from Relay (67CR) to Relay (68CR). Defective Proximity Switch (PS68). Loose or broken wire #36A from Relay (68CR) to Base Terminal Block (TB-3). Loose or broken wire #65,66,67 or 68 from Proximity Switch. (NOTE: these wires supply a ground to the relays they 	 Extend Outriggers to take weight off the tires. Check relay. Replace if defective. Refer to Section 5 for Proximity Test procedures. Check continuity. Replace if defective. Check relay. Replace if defective. Refer to Section 5 for Proximity Switch Test Procedures. Check continuity. Replace if defective. Check relay. Replace if defective. Check relay. Replace if defective. Check relay. Replace if defective. Refer to Section 5 for Proximity Test Procedures. Check continuity. Replace if defective. Check continuity. Replace if defective. Check relay. Replace if defective. Check relay. Replace if defective. Refer to Section 5 for Proximity Test Procedures. Check continuity. Replace if defective. Refer to Section 5 for Proximity Test Procedures. Check continuity. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective.
PLATFORM WILL NOT LIFT FROM PLATFORM OR BASE CONTROLS WITH OUTRIGGERS EXTENDED (31' Models with Serial Number 36381 and Above) (41' Models with Serial Number 40841 and Above)	 Outrigger not extended enough. Loose or broken wire #10A from Relay (65CR) to Outrigger Terminal Block (TB-4). Loose or broken wire #10A from Outrigger Terminal Block (TB-4) to Outrigger Limit Switch (LS68). Defective Outrigger Limit Switch (LS67). Loose or broken wire #68 from Outrigger Limit Switch (LS68) to Outrigger Limit Switch (LS67). Defective Outrigger Limit switch (LS67). Defective Outrigger Limit switch (LS67). Defective Outrigger Limit switch (LS67). Loose or broken wire #67 from Outrigger Limit Switch (LS66) to Outrigger Limit Switch (LS66). Defective Outrigger Limit Switch (LS66). Defective Outrigger Limit Switch (LS66). Defective Outrigger Limit Switch (LS65). Defective Outrigger Limit Switch (LS65). Defective Outrigger Limit Switch (LS65). Loose or broken wire #65 from Outrigger Limit Switch (LS65) to Outrigger Limit Switch (LS65) to	 Extend Outriggers to take weight off tires (Refer to operator section). Check continuity. Replace if defective. Check continuity. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective. Check switch. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective. Check switch. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	ELECTRICAL SYSTE	M
PLATFORM WILL NOT LOWER FROM PLATFORM OR BASE CONTROLS	 Loose or broken wire #13 from Base Terminal Block (TB-1) to Relay (13CR). Defective Relay (13CR). Loose or broken wire #02 from Relay (13CR) to Base Terminal Block (TB-1). Loose or broken wire #05 from Relay (10BCR-1) to Relay (13CR). Loose or broken wire #13A from Relay (13CR) to Base Terminal Block (TB-1). Loose or broken wire #13A from Base Terminal Block (TB-1) to Down Valve Coil (2H-13A). Defective Down Valve Coil (2H-13A). Loose or broken wire #02 from Down Valve (2H-13A) to Base Terminal Block (TB-1). Loose or broken wire #13A from Base Terminal Block (TB-1) to Base Terminal Block (TB-2). Loose or broken wire #13A from Base Terminal Block (TB-3) to Lift Cylinder Holding Valves (2H-13A-1) and (2H-13A-2). Loose or broken wire #02 from Lift Cylinder Holding Valves (2H-13A-1) and (2H-13A-2) to Base Terminal Block (TB-3). 	 Check continuity. Replace if defective. Check relay. Replace if defective. Check continuity. Replace if defective. Check continuity through coil. Replace if defective. Check continuity. Replace if defective.
PLATFORM WILL NOT LOWER FROM PLATFORM CONTROLS	 Defective Platform Down Switch (S5). Loose or broken wire #13 from Platform Down Switch (S5) to Platform Terminal Block (TB-5). Loose or broken wire #13 from Platform Terminal Block (TB-5) to Base Terminal Block (TB-1). 	 Check switch. Replace if defective. Check continuity. Replace if defective. Check continuity. Replace if defective.
PLATFORM WILL NOT LOWER FROM BASE CONTROLS	 Defective Platform Down Switch (S17). Loose or broken wire #13 from Platform Down Switch (S17) to Base Terminal Block (TB-1). 	 Check switch. Replace if defective. Check continuity. Replace if defective.
POWERED EXTENSION DECK INOPERATIVE	 Loose or broken Battery Cable #103 from Main Power Disconnect Switch (S1) to 100 Amp Fuse (F2). Open 100 Amp Fuse (F2). Loose or broken Battery Cable #103A from Amp Fuse (F2) to contactor (09CR). Defective Contactor (09CR). Loose or broken Battery Cable #103B from Contractor (09CR) to Motor Contactor (99CR). Defective Motor Contactor (99CR). 	 Check continuity. Replace if defective. Check continuity through fuse. Replace if defective. Check continuity. Replace if defective. Check contactor. Replace if defective. Check continuity. Replace if defective. Check contactor. Replace if defective. Check contactor. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	ELECTRICAL SYSTE	М
POWERED EXTENSION DECK INOPERATIVE	 Loose or broken wire #103B from Motor Contactor (99CR) to Circuit Breaker (CB2) 	7. Check continuity. Replace if defective.
	 8. Tripped or defective Circuit Breaker (CB2). 	8. Reset if tripped. Replace if defective.
	 Loose or broken wire #103B from Circuit Breaker (CB2) to Powered Platform Enable Switch (S34 or 34A) 	9. Check continuity. Replace if defective.
	 Defective Powered Platform Enable Switch (S34 or 34A). 	10. Check switch. Replace if defective.
	 Loose or broken wire #103B from Powered Platform Enable Switch (S34 or 34A) to Powered Platform Extend/ Betract Switch (S11) 	11. Check continuity. Replace if defective.
	 Loose or broken Battery Cable #00 from Powered Platform Power Unit (DCM1) to Battery (B1). 	12. Check continuity. Replace if defective.
POWERED EXTENSION DECK WILL NOT EXTEND	 Defective Powered Platform Extend/ Retract Switch (S11). Loose or broken wire #26 from Powered Platform Extend/Retract Switch (S11) to Platform Extend Valve Coil (4H-26). 	 Check Switch. Replace if defective. Check continuity. Replace if defective.
	 Defective Platform Extend Valve Coll (4H-26). Loose or broken wire #00 from Platform Extend Valve Coil (4H-26). 	 Check continuity through coil. Replace if defective. Check continuity. Replace if defective.
	5. Open Diode (D26).	5. Check diode. Replace if defective.
POWERED EXTENSION DECK WILL NOT RETRACT	 Defective Powered Platform Extend/ Retract Switch (S11). Loose or broken wire #27 from Powered Platform Extend/Retract Switch (S11) to Platform Betract Value Coil (4H-27) 	 Check switch. Replace if defective. Check continuity. Replace if defective.
	 Defective Powered Platform Retract Valve Coil (4H-27). Loose or broken wire #00 from Powered 	 Check continuity through coil. Replace if defective. Check continuity. Replace if
	Platform Retract Valve (4H-27). 5. Open Diode (D27).	defective. 5. Check diode. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	HIDRAULIC SISTER	
ALL FUNCTIONS INOPERATIVE	 Hydraulic oil level to low. Defective Pump (P1). Broken enging to pump coupler. Open Relief Valve (R1). 	 Refill hydraulic tank to upper mark in sight glass. Check pump. Replace if defective. Check coupler. Replace if defective. Check valve. Replace if defective.
STEERING INOPERATIVE	 Stuck Brake Feed Valve (2H-30A-2). Stuck Steer Right Valve (4H-23A or Steer Left Valve (4H-26A. Bypassing Steer Cylinder (C7). 	 Check valve. Replace if defective. Clean valve. Replace if defective. Repack Cylinder. Replace if defective.
STEER AND FIRST DRIVE SPEED INOPERATIVE	 Stuck Small Pump Dump Valve (2H-18A). Worn or defective small section of pump (P1). Stuck Check Valve (CV1) or (CV2). 	 Check valve. Replace if defective. Check pump. Replace if defective. Check valve. Replace if defective.
LIFT AND SECOND DRIVE SPEED INOPERATIVE	 Stuck Large Pump Dump Valve (2H-17A). Worn or defective large section of pump (P1). Stuck Check Valve (CV2) or (CV1). 	 Check valve. Replace if defective. Check pump. Replace if defective. Check valve. Replace if defective.
DRIVE INOPERATIVE	 Stuck or defective Drive Reverse Valve (4H-15B) or Drive Forward Valve (4H-16B). Defective Motion Control Valve MC1. One or more check balls missing or defective in Series/Parallel Valve Manifold (3H-20A). Stuck Main Series/Parallel Valve spool (V3) in Drive motor. Defective Drive Motor (M1). Stuck Free Wheeling Valve (2H-30A) or (2H-30B). Bypassing Cushion Cylinder (C8). 	 Clean valve. Replace if defective. Clean valve. Replace if defective. Replace missing check balls(3/16") steel. Refer to Section 5, for proper inspection. Clean valve. Replace if defective. Check Motor. Replace if defective. Clean valve. Replace if defective. Clean valve. Replace if defective. Check Cylinder. Replace if defective.
REVERSE DRIVE INOPERATIVE	 Stuck or defective Drive Valve (4H-15A). Stuck or defective Check Valve in Motion Control Assembly (MC1). 	 Clean drive valve. Replace if defecitve. Clean check valves. Repalce Motion Control Assembly (MC1) if defective.
FORWARD DRIVE INOPERATIVE	 Stuck or defective Drive Valve (4H-16A). Stuck or defective Check Valve in Motion Control Assembly (MC1). 	 Clean drive valve. Replace if defecitve. Clean check valves. Repalce Motion Control Assembly (MC1) if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	HYDRAULIC SYSTEM	VI
BRAKE WILL NOT RELEASE	 Stuck or defective Brake Feed Valve (2H-30A-2). Stuck or defective Brake Dump Valve 	 Check valve. Replace if defective. Check valve. Replace if defective.
	 (2H-30A-1). Stuck or defective Quick Brake Valve (2H-25). 	 Check valve. Replace if defective.
	 Stuck or defective Auto Reset Valve (V2). 	4. Check valve. Replace if defective.
UP CIRUIT INOPERATIVE	 Stuck or defective Lift Valve (2H-14B). Stuck Check Valve (CV3). Misadjusted or defective Lift Relief Valve (R2). Stuck or defective Lowering Valve (2H-13B. Stuck or defective Manual Lowering Valve (V1). Open or defective Brake Feed Valve (2H-30A-2) Open Manual Override on Holding Valve (2H-13B-1) or (2H-13B-2). Stuck Holding Valve (2H-13B-1) or (2H-13B-2). 	 Clean valve. Replace if defective. Check valve. Replace if defective. Adjust valve. Replace if defective. Check valve. Replace if defective. Depress and turn manual override clockwise to close. Replace if defective. Check valve. Replace if defective.
DOWN CIRCUIT INOPERATIVE	 Stuck Lowering Valve (2H-13B). Stuck Holding Valve (2H-13B-1) or (2H-13B-2). Plugged Lowering Orifice (01). 	 Check valve. Replace if defective. Check valve. Replace if defective. Clean orifice.
ALL OUTRIGGERS INOPERATIVE	 Stuck or defective Outrigger Holding Valve (2H-17B). 	1. Check valve. Replace if defective.
LEFT FRONT OUTRIGGER INOPERATIVE	 Stuck or defecitve Retract Valve (4H-71A) or Extend Valve (4H075A). Stuck or defective Check Valve (CV4). Bypassing Outrigger Cylinder (C9). 	 Clean valve. Replace if defective. Check valve. Replace if defective. Repack cylinder. Replace if defective.
RIGHT FRONT OUTRIGGER INOPERATIVE	 Stuck or defecitve Retract Valve (4H-72A) or Extend Valve (4H-76A). Stuck or defective Check Valve (CV5). Bypassing Outrigger Cylinder (C10). 	 Clean valve. Replace if defective. Check valve. Replace if defective. Repack cylinder. Replace if defective.
RIGHT REAR OUTRIGGER INOPERATIVE	 Stuck or defecitve Retract Valve (4H-73A) or Extend Valve (4H-77A). Stuck or defective Check Valve (CV6). Bypassing Outrigger Cylinder (C11). 	 Clean valve. Replace if defective. Check valve. Replace if defective. Repack cylinder. Replace if defective.

TROUBLE	PROBABLE CAUSE	REMEDY
	HYDRAULIC SYSTE	M
LEFT REAR OUTIRGGER INOPERATIVE	 Stuck or defecitve Retract Valve (4H-74A) or Extend Valve (4H-78A). Stuck or defective Check Valve (CV7). Bypassing Outrigger Cylinder (C12). 	 Clean valve. Replace if defective. Check valve. Replace if defective. Repack cylinder. Replace if defective.
OUTRIGGERS DRIFT IN	 Defective Check Valve left front (CV4), right front (CV5), right rear (CV6) or left rear (CV7). Outrigger Cylinder bypassing left front (C9), right front (C10), right rear (C11), or left rear (C12). 	 Clean valve. Replace if defective. Repack cylinder. Replace if defective.
POWERED PLATFORM INOPERATIVE	 Hydraulic Oil level too low. Defective Pump (P2). Misadjusted or defective Relief Valve (R4). Stuck or defective Extend Valve (4H-26) or Retract Valve (4H-27). Bypassing Powered Platform Cylinder (C3) OR (C4). 	 Refill tank to proper level. Check pump. Replace if defective. Adjust relief valve. Replace if defective. Clean valve. Replace if defective. Repack cylinder. Replace if defective.
HYDRAULIC GENERATOR INOPERATIVE	 Stuck or defective Generator Valve (2H-86). Misadjusted or defective Flow Control (FC1). Defective Generator Pump (P2). 	 Check valve. Replace if defective. Adjust flow control to set generator output. Replace if defective. Check pump. Replace if defective.

SECTION 5 MAINTENANCE AND SERVICE

OPERATOR'S RESPONSIBILITY FOR MAINTENANCE

Death or injury can result if the work platform is not kept in good working order. Inspection and maintenance should be performed by competent personnel who are familiar with mechanical procedures.

The operator should be assured that the work platform has been properly maintained before using it. Included in this section is information on lubrication and inspection points that require maintenance.

Even if the operator is not responsible for the maintenance of this work platform, the operator should perform the daily inspections found in Table 5-1. Maintenance and Inspection Schedule.

NOTE

Replace all worn or damaged parts or labels discovered during this inspection. Any problems or malfunctions that affect the safe operation of this work platform MUST be repaired prior to use of this work platform.



DO NOT reach through scissors assembly without the safety bar properly positioned. Failure to avoid this hazard will result in death or serious injury!

MAINTENANCE AND INSPECTION SCHEDULE

The actual operating environment of the work platform governs the use of the maintenance schedule. The inspection points covered in Table 5-1. Maintenance and Inspection Schedule indicates the areas of the work platform to be checked and the intervals at which they should be checked.

OWNER'S ANNUAL INSPECTION RECORD

It is the responsibility of the owner to arrange daily, weekly, monthly and annual inspections of the work platform. Table 5-2. Owner's Annual Inspection Record is to be used for recording the date of inspection, owner's name and the person responsible for the inspection of this work platform.

GENERAL MAINTENANCE HINTS

- Before attempting any repair work, disconnect battery ground negative (-) lead.
- Properly position safety bar if the scissors assembly is raised.
- Preventive maintenance is the easiest and least expensive type of maintenance.

HYDRAULIC SYSTEM AND COMPONENT MAINTENANCE AND REPAIR

The following points should be kept in mind when working on the hydraulic system or any component:

- 1. Any structure has limits of strength and durability. To prevent failure of structural parts of hydraulic components, relief valves which limit pressure to safe operating values are included in the hydraulic circuits.
- 2. Tolerance of working parts in the hydraulic system are very close. Even small amounts of dirt or foreign material in the system can cause wear or damage to components, as well as general faulty operation of the hydraulic system. Every precaution must be taken to assure absolute cleanliness of the hydraulic oil.
- 3. Samples of hydraulic oil should be drawn from the reservoir every six months. These samples should be about two quarts and should be taken while the oil is warmed through normal operation of the system. If possible, the sample should be analyzed by a qualified lubrication specialist to determine whether it is suitable for further use. The intervals between oil changes depend on operating conditions and on the care used in keeping the oil clean.
- 4. Whenever there is a hydraulic system failure which gives reason to believe that there are metal particles or foreign materials in the system, drain and flush the entire system and replace the filter cartridges. A complete change of oil must be made under these circumstances.
- 5. Whenever the hydraulic system is drained, check the magnets in the hydraulic reservoir for metal particles. If metal particles are present, flush the entire system and add a new change of oil. The presence of metal particles also may indicate the possibility of imminent component failure. A very small amount of fine particles is normal.
- DO NOT use synthetic or fire resistant oils in this work platform Use ATF Dexron III or equivalent hydraulic oil. For conditions causing oil temperatures below -31°F (-35°C) and above 122°F (50°C) consult Skyjack, Inc.

- 7. All containers and funnels used in handling hydraulic oil must be absolutely clean. Use a funnel when necessary for filling the hydraulic oil reservoir, and fill the reservoir only through the filler opening. The use of cloth to strain the oil should be avoided to prevent lint from getting into the system.
- 8. When removing any hydraulic component, be sure to cap and tag all hydraulic lines involved. Also, plug the ports of the removed components.
- 9. All hydraulic components must be disassembled in spotlessly clean surroundings. During disassembly, pay particular attention to the identification of parts to assure proper reassembly. Clean all metal parts in a clean mineral oil solvent. Be sure to thoroughly clean all internal passages. After the parts have been dried thoroughly, lay them on a clean, lint-free surface for inspection.
- Replace all o-rings and seals when overhauling any component. Lubricate all parts with clean hydraulic oil before reassembly. Use small amounts of petroleum jelly to hold o-rings in place during assembly.
- 11. Be sure to replace any lost hydraulic oil when completing the installation of the repaired component, and bleed any air from the system when required.
- 12. All hydraulic connections must be kept tight. A loose connection in a pressure line will permit the oil to leak out or air to be drawn into the system. Air in the system can cause damage to the components and noisy or erratic system operation.

MAINTENANCE. Three simple maintenance procedures have the greatest effect on hydraulic system performance, efficiency and life. Yet, the very simplicity of them may be reasons they are so often overlooked. What are they? Simply these:

- 1. Change filters regularly.
- 2. Maintain a sufficient quantity of clean hydraulic oil of the proper type and viscosity in the hydraulic reservoir.
- 3. Keep all connections tight.

	Daily	Weekly	Monthly	3-Months	6-Months	12-Months
Engine						
Fuel leaks (1)	\checkmark					
Engine oils (11)						✓
Engine R P M (10)			~			✓
Fuel filter (9)					✓	✓
Muffler (2)(3)(13)				✓		~
Air cleaner (12)	✓					~
Fuel tank cap (1)	√					✓
Radiator water level (15)	✓					~
Mechanical						
Structural damage/welds	✓					✓
Parking brake (2)	✓					✓
Tires/wheels (1)(2) Fasteners (18)		~				~
Guides/rollers (1) slider pads (17)	~					~
Railings (1) Railing lock pins (3)						
Entry chains or gates (2) (3)	~					~
Bolts and fasteners (3)		✓				~
Safety bar (2)		~				~
Rust (1)			~			~
Wheel brgs (2) King pins (1)					✓	✓
Steer cylinder/Tie rod (1)(2)(8)				~		✓
Electrical					~	
Battery fluid level (1)	✓					✓
Control switches (1) (2)	✓					✓
Cords and wiring (1)	✓					~
Battery terminals (1) (3)			✓			✓
Generator/receptacle			~			~
Terminals and plugs (3)			~			✓
Hydraulic						
Hydraulic oil level (11)	✓					✓
Hydraulic leaks (1)	√					✓
Lift/lowering speeds (10)		✓				✓
Cylinders (1)(2)		√				1
Emergency lowering (2)		✓				✓
Lift capacity (7)			✓			✓
Hydraulic oil/oil filter (9)					✓	✓
Miscellaneous	1		1	r	1	
Labels (1) (14) Manual (16)	~					~
Notes: (1) Visually inspect (2) Check ope (7) Check relief valve setting. Refer to (8) Lubricate (9) Replace (10) See Table 9 (11)Check oil level (12) See engine r level. (14) Replace if missing or illegib	(17) Ensure to slider side movement o the slider pir Section 5, Pa	there is no met or running su f surface. Also n through the s uge 21 for inspe	al to metal conta rface. Also ch o check for free slider and pad. ction and torquin	ct with slider, eck for free movement of (18) Refer to g procedure.		

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cooled. (16) Proper manual must be in the manual tube.

* Record inspection date.

MODEL NUMBER				SERIAL NUMBER				
Recording Date								
Recording Year	1	2	3	4	5	6	7	8
Owner's Name								
Inspected By								

Table 5-2. Owner's Annual Inspection Record

Table 5-3. Tire Specifications

	Tire*		Fill Spec	cification
Model	Size	Rating	Туре	Pressure
8831	#6 10-16.5 NHS (30" OD)	6 PLY	Air	50 psi
8831F	#6F 10-16.5 NHS (30" OD)	6 PLY	Solid Urethane	See NOTE
8841	#6 10-16.5 NHS (30" OD)	6 PLY	Air	50 psi
8841F	#6F 10-16.5 NHS (30" OD)	6 PLY	Solid Urethane	50 psi
8231	#6 10-16.5 NHS (30" OD)	6 PLY	Air	50 psi
8231F	#6F 10-16.5 NHS (30" OD)	6 PLY	Solid Urethane	50 psi
8241F	#6F 10-16.5 NHS (30" OD)	6 PLY	Solid Urethane	50 psi

* - Standard. Optional is #7 or #7F (31 x 15.5, 8 ply) Note: Solid urethane used for filling #6F and #7F MUST be 25-30 durometer.

Table 5-4. Maximum Platform Capacities (Evenly Distributed)

Model	Main Platform Capacity W/No	Capacity W/Fi Platfor	ront Extension m (XD1)	Capacity W/Front and Rear Extension Platform (XD2)			
	Extension Platform	Main	Front Extension	Main	Front Extension	Rear Extension	
8831	2500# 6 occ.	1500#	500#	500#	500#	500#	
	(1134kg)	(680kg)	(227kg)	(227kg)	(227kg)	(227kg)	
8831F	2500# * 6 occ.	1500#	500#	800#**	500#	500#	
	(1134kg)	(680kg)	(227kg)	(363kg)	(227kg)	(227kg)	
8841	1500# 6 occ.	1000#	500#	500#	500#	500#	
	(680kg)	(454kg)	(227kg)	(227kg)	(227kg)	(227kg)	
8841F	2000# * 6 occ.	1200#	500#	700#***	500#	500#	
	(907kg)	(544kg)	(227kg)	(317kg)	(227kg)	(227kg)	
8231	2500# 6 occ.	1500#	500#	500#	500#	500#	
	(1134kg)	(680kg)	(227kg)	(227kg)	(227kg)	(227kg)	
8231F	2500# 6 occ.	1500#	500#	800#**	500#	500#	
	(1134kg)	(680kg)	(227kg)	(363kg)	(227kg)	(227kg)	
8241F	2000# 6 occ.	1200#	500#	700#***	500#	500#	
	(907kg)	(544kg)	(227kg)	(317kg)	(227kg)	(227kg)	

Capacity is reduced by 500# for European applications. **-Capacity is reduced by 300#(136kg) for European applications. ***-Capacity is reduced by 200#(91kg) for European applications. NOTE: (XD1) is a front mounted 4 ft. extension platform. (XD2) is front and rear 4 ft. extension platform. Extension platforms are limited to (2) occupants. Refer to capacity label at sides of platform for additional information.

DIRECTIONAL VALVE MOUNTING BOLTS				28 - 32 lbf . in.			3.1612 - 3.6128 Nm		
WHEEL MOUNTING BOLTS AND NUTS				135-145 lbf. ft.			183.06-196.62 Nm		
CENTER DRIVE SPRO	CKET MTG	BOLTS	110-1	15 lbf. ft (B	lue LOCTITE)	149	149.16-155.94 Nm		
			CARTR	IDGE					
SIZE	0	8	38	58	10		12	16	
lbf.ft (max)	2	0	20	20	25		35	50	
lbf . in (max)	24	40	240	240	300	2	120	600	
Nm (max)	27	.12	27.12	27.12	33.90) 47	7.46	67.80	
COILS									
SIZE				AI	l Coils				
lbf . ft (max)				4	to 5				
lbf . in (max)				48	to 60				
Nm (max)				5.42	to 6.78				
			SAE P	LUGS					
Size	2	4	5	6	8	10	12	16	
lbf . ft (max)	3	10	15	15	25	25	30	35	
lbf . in (max)	36	120	180	180	300	300	360	420	
Nm (max)	4.07	13.56	20.34	20.34	33.90	33.90	40.68	47.46	
		D 1 (11 6 61	-	1.6			

Table 5-5. Torque Specifications

Newton-Meter = Nm

Pound-force foot = lbf.ft

Pound-force inch = lbf.in

Table 5-6. General Specifications

ENGINE POWER - Ford gasoline	38 Hp Water Cooled (VSG-413)
ENGINE POWER - Kubota gasoline	23 Hp Water Cooled (WG-750)
ENGINE POWER - Kubota diesel (Later Models)	25.5 Hp Water Cooled (D1105-B)
ENGINE POWER - Kubota diesel (Early Models)	19.5 Hp Water Cooled (D-905)
ENGINE POWER - Kubota diesel (Early Models)	21 Hp Water Cooled (DH-850)
BATTERY	12 Volt, 60 Ampere Hour
TIRES	Refer to Table 5-3.
INSIDE TURNING RADIUS (2WD) Model 88XX	124" (3.15m)
INSIDE TURNING RADIUS (4WD) Model 88XX	129" (3.28m)
INSIDE TURNING RADIUS (2WD) Model 82XX	108" (2.74m)
INSIDE TURNING RADIUS (4WD) Model 82XX	158" (4.01m)
OUTSIDE TURNING RADIUS (2WD) Model 88XX	224" (5.69m)
OUTSIDE TURNING RADIUS (4WD) Model 88XX	236" (5.99m)
OUTSIDE TURNING RADIUS (2WD) Model 82XX	213" (5.41m)
OUTSIDE TURNING RADIUS (4WD) Model 82XX	248" (6.30m)
GROUND UNDERCLEARANCE - Model 88XX	7" (.178m)
GROUND UNDERCLEARANCE - Model 82XX	8" (.203m)
FLOOR LOAD RATING - Model 8831	47.14 psi (3.31 kg/cm ²)
FLOOR LOAD RATING - Model 8831F	67.14 psi (4.72 kg/cm ²)
FLOOR LOAD RATING - Model 8841	42.27 psi (2.97 kg/cm ²)
FLOOR LOAD RATING - Model 8841F	69.79 psi (4.91 kg/cm ²)
FLOOR LOAD RATING - Model 8231	46.49 psi (3.27 kg/cm ²)
FLOOR LOAD RATING - Model 8231F	66.31 psi (4.66 kg/cm ²)
FLOOR LOAD RATING - Model 8241F	69.31 psi (4.87 kg/cm ²)

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Table 5-6. General Specifications (continued)

ELEVATED PLATFORM SPEED	0.60 mph (0.97 kph)
HIGH TRAVEL SPEED (High Range/High Speed)	3.50 mph (5.6 kph)
LIFT TIME WITH RATED LOAD - 31' Models LIFT TIME WITH RATED LOAD - 41' Models	80 seconds 90 seconds
LOWERING TIME WITH RATED LOAD (31' Models with Serial Number 36543 and above)	53 seconds
(31' Models with Serial Number 36542 and below)	78 seconds
(41' Models with Serial Number 41990 and above)	44 seconds
(41' Models with Serial Number 41989 and below)	65 seconds
HIGH SPEED DRIVE CUT OUT HEIGHT	10 feet (3.04m)
SYSTEM RELIEF PRESSURE SETTING	(Refer to Serial Number Plate)
LIFT RELIEF PRESSURE SETTING	(Refer to Serial Number Plate)
HYD. PUMP (sml/lrg) (Ford gasoline engine)	.488/.854 ci/rev 366/ 671 ci/rev
HYD. PUMP (sml/lrg) (Kubota diesel engines)	.488/.854 ci/rev
HYDRAULIC SYSTEM CAPACITY (later models) HYDRAULIC SYSTEM CAPACITY (earlier models)	22 gallons (83.3 liters) 15.8 gallons (59.9 liters)
HYDRAULIC TANK CAPACITY (later models) HYDRAULIC TANK CAPACITY (earlier models)	20.5 gallons (77.6 liters) 14.3 gallons (54.1 liters)
FUEL (gasoline engines) FUEL (diesel engines)	Non-Blended Automotive No. 2 Diesel
FUEL TANK CAPACITY (later models) FUEL TANK CAPACITY (earlier models)	13.5 gallons (51.1 liters) 21.0 gallons (79.5 liters)
ENGINE RPM (low/high) (Ford gasoline engine) ENGINE RPM (low/high) (Kubota gasoline engine) ENGINE RPM (low/high) (Kubota diesel engines)	1300/2800 1800/3400 1300/2800
IGNITION TIMING (Ford VSG-413 engine) IGNITION TIMING (Kubota WG-750B engine) IGNITION TIMING (Kubota D1105E engine) IGNITION TIMING (Kubota D905 engine) IGNITION TIMING (Kubota DH-850 engine)	Solid State Distributorless BTDC 20°
RADIATOR COOLANT VOLUME (Ford engine) RADIATOR COOLANT VOLUME (Kubota engines)	12 quarts (11.36 liters) 3.2 quarts (3.03 liters)
TAPPET CLEARANCE (int/exh) (Ford engine) TAPPET CLEARANCE (int/exh) (Kubota engines)	.0087(.22mm)/.0126(.32mm) .0057(.14mm)/.0072(.18mm)
ENGINE TEMP. SWITCH CUTOUT (Ford engine) ENGINE TEMP. SWITCH CUTOUT(Kubota engines)	225°F (107.2°C) 230°F (110°C)
ENGINE OIL CAPACITY (Ford VSG-413) ENGINE OIL CAPACITY (Kubota WG-750B engine) ENGINE OIL CAPACITY (Kubota D1105E engine) ENGINE OIL CAPACITY (Kubota D905 engine) ENGINE OIL CAPACITY (Kubota DH-850)	3.5 quarts (3.3 liters) 3.9 quarts (3.7 liters) 5.4 quarts (5.1 liters) 5.4 quarts (5.1 liters) 3.9 quarts (3.7 liters)

BRAKE ADJUSTMENT PROCEDURE

- 1. Place machine on level surface and block wheels to prevent rolling in either direction.
- 2. Turn Battery disconnect off.
- 3. Locate brake manifold in hydraulic/electric side cabinet.
- 4. Depress and turn the red knurled knob on the brake valve counter-clockwise to a fully closed position or depress black knob.(current manifold)
- 5. Grasp the red plunger and rapidly depress until plunger can no longer be depressed and the brake is fully released.
- 6. Inspect caliper and brake pads for binding. Pads should move freely on the pins.
- 7. Remove pin from brake cylinder clevis and brake actuating lever. Rotate actuating lever counter-clockwise to the end of it's stroke.
- Adjust brake cylinder clevis to obtain 1/2" between the center of the holes of the actuating lever and brake cylinder clevis. See Figure 4-1. Tighten jamb nut on brake cylinder rod against clevis. Note: It is important that the brake cylinder reaches it's maximum stroke before the caliper to prevent damage to the caliper.



Figure 5-1. Brake Adjustment

- 9. Reinstall clevis pin back into the clevis actuating lever.
- 10. Remove plastic plug located on the end of the caliper shaft. See Figure 5-2.



Figure 5-2. Plug Removal and Replacement

- 12. Replace plastic plug back into the end of the caliper shaft.
- 13. Depress red knurled knob on brake valve and turn clockwise to a fully open position.
- 14. Remove Wheel blocks. Turn emergency power disconnect switch on. Operate drive several times to seat pads to brake disc.

Parking Brake System



- 1. BRAKE DISC
- 2. HYDRAULIC BRAKE CYLINDER
- 3. DISC CALIPER

1-3. DISC PARKING BRAKE - This device disengages the **brake disc** when driving forward or in reverse. A **hydraulic brake cylinder**, linked to a **disc caliper**, engages and disengages a brake disc on the rear axle drive shaft yoke.



Figure 5-4A.Parking Brake Release Hand Pump and Brake Valve Plunger

(31' Models With Serial Number 36054 and Above) (41' Models With Serial Number 40110 and Above)

- 4. PARKING BRAKE RELEASE HAND PUMP
- 5. BRAKE VALVE PLUNGER

4-5. PARKING BRAKE RELEASE HAND PUMP AND BRAKE VALVE PLUNGER - Located on the brake manifold in the hydraulic electric side cabinet, this hand operated pump MUST be used when pushing or towing the work platform. To release the parking brake:

SJ-800 Series Engine Powered 112114AE

- Step 1. Turn Emergency Power Disconnect Switch to "OFF" position.
- Step 2. Depress the black plunger on the Brake Valve until the plunger stays in.
- Step 3. Grasp the red hand pump plunger and rapidly depress until firm resistance is felt. The brake is now released.
- Step 4. Push or tow the work platform to the desired location. NOTE: When towing, DO NOT exceed 2 mph.



Figure 5-4B. Parking Brake Release Hand Pump and Quick Brake Valve (31' Models With Serial Number 36053 and Below) (41' Models With Serial Number 40109 and Below)

- 6. PARKING BRAKE RELEASE HAND PUMP
- 7. QUICK BRAKE VALVE KNOB

6-7. PARKING BRAKE RELEASE HAND PUMP AND QUICK BRAKE VALVE - Located on the quick brake manifold in the hydraulic/electric side cabinet, this hand operated pump MUST be used when pushing or towing the work platform. To release the parking brake: Step 1. Turn Emergency Power Disconnect Switch to "OFF" position.

- Step 2. Depress and turn the red knurled knob on the quick brake valve counterclockwise to a fully closed position.
- Step 3. Grasp the red pump plunger and rapidly depress 60-80 times or until the brake releases.
- Step 4. Push or tow the work platform to the desired location.NOTE: When towing, DO NOT exceed 2 mph.
- Step 5. Open the quick brake valve by depressing, then turning the red knurled knob on the brake valve clockwise to a fully open position.



The quick brake valve **MUST** be open to restore normal operation. Failure to follow the procedure discussed above could result in death or serious injury!

SYSTEM AND LIFT PRESSURE ADJUSTMENTS

All adjustments **MUST** be made with a Calibrated Hydraulic Gauge.

Refer to the Serial Number Nameplatelocated on the rear of the machine for System and Lift Pressure values.

SYSTEM RELIEF PRESSURE ADJUSTMENT

- 1. Locate the Right Steer Hydraulic line at the Main Manifold. (Refer to Hydraulic Manifold Component and Port Identification found in SECTION 3 for location.)
- 2. Tee in a Calibrated 3000 PSI Gauge into the Right Steer line.
- 3. Remove the Operator's Control Box from the guardrail and disconnect it from the Scissors Control Cable.
- 4. Locate the Electrical Panel Cable Plug in the Hydraulic/Electric Cabinet.
- 5. Disconnect the Scissors Control Cable and connect the Operator's Control Box Cable.
- 6. At the Main Manifold, loosen the locknut on the System Relief Valve (R1). (Refer to Hydraulic Manifold Component and Port Identification found in SECTION 3 for location.)
- 7. Select "DRIVE" position with the Lift/Drive Select Switch on the Platform Control Box.
- 8. Engage Steer Right Switch on the top of the Controller Handle and hold.
- 9. Check the reading on Pressure Gauge. Adjust the System Relief Valve (R1) to the pressure listed on the Serial Number Nameplate. NOTE: Turning the stem on the Relief Valve clockwise increases pressure. Turning the stem counter-clockwise decreases pressure.
- 10. Release the Steer Switch and retighten the locknut on the System Relief Valve (R1).
- 11. Remove the gauge from the Steer line.

LIFT PRESSURE ADJUSTMENT

FULLY LOWER THE PLATFORM

- 1. Locate the Lift line coming out of the Main Manifold. (Refer to Hydraulic Manifold Component and Port Identification found in SECTION 3 for location.)
- 2. Open the Manual Lowering Valve with the platform fully lowered. Remove the Lift line from the Main Manifold.
- 3. Install a 3000 PSI Gauge into the Lift line port fitting on the Main Manifold. Plug the Lift line going to the Lift Cylinders.
- 4. Loosen the locknut on the Lift Relief Valve (R2). (Refer to Hydraulic Manifold Component and Port Identification found in SECTION 3 for location.)
- 5. Close the Manual Lowering Valve. Using the Base Controls in the Hydraulic/Electric Cabinet, depress and hold the Up Push-Button Switch.
- 6. Observe the reading on the gauge. Adjust the Lift Relief Valve (R2) to the pressure listed on the Serial Number Nameplate. NOTE: Turning the stem on the Relief Valve clockwise increases pressure. Turning the stem counter-clockwise decreases pressure.
- 7. Release the Up Push-Button and retighten the locknut on the Lift Relief Valve (R2).
- 8. Remove the gauge from the Lift line port fitting and reinstall the Lift line.
- **Note**: Pressure setting may vary as machine components wear. The lift pressure should be set for rated load only.

NOT LIFT MORE THAN RATED LOAD

PRECISION GOVERNOR TROUBLESHOOTING PROCEDURE

- 1. Check for binding in the throttle linkage. The linkage MUST operate freely.
- 2. Check for excessive play in the carburetor throttle shaft. Excessive play will cause the throttle shaft to stick while the engine is running, preventing the Precision Governor from operating properly.
- 3. Start the Engine. Switch to "LOW" Engine RPM's.
- 4. Check for binding in the throttle linkage while the engine is running. Again the linkage MUST operate freely.
- 5. Locate Terminals 1 & 2 on the Governor Control Box. Refer to Figure 5-5 on Page 11 for location.
- With the engine running on "LOW" RPM's, measure voltage between Terminals 1 & 2. Reading should be 12-14 volts. If no voltage is present, repair the wiring from the engine harness to the Governor Control Box. If voltage is present, go on to Step 7.
- 7. Locate Terminals 3 & 4 on the Governor Control Box. Refer to Figure 5-5 on Page 11 for location.
- With the engine running on "LOW" RPM's, measure voltage between Terminals 2 & 3. Reading should be 5-20 volts. If no voltage is present, repair the wiring from the Ford Engine Ignition Coil to the Governor Control Box. If voltage is present, go on to Step 9.
- 9. With the engine running on "LOW" RPM's, measure voltage between Terminal 2 & 4. Reading should be 5-20 volts. If no voltage is present, repair the wiring from the Ford Engine Ignition Coil to the Governor Control Box. If voltage is present, go on to Step 10.
- 10. Shut off the engine.
- 11. Remove wire #37 from Terminal 1 of the Governor Control Box.
- 12. Attach one end of a 48" long jumper wire to the battery post on the starter.
- 13. While observing the linkage from the Governor Actuator to the carburetor, touch the other end of the 48" jumper wire to terminal 1 of the Governor Control Box. The linkage should "kick" then return to the idle position. If the linkage does not "kick", replace the Governor Control Box.
- 14. Remove the jumper wire and reinstall wire #37 back on to Terminal 1 of the Governor Control Box.
- 15. With the engine running on "LOW" RPM's, measure voltage between Terminals 2 & 5. Reading should be 12-14 volts. If no voltage is present, replace the Governor Control Box. If voltage is present, go on to Step 16.
- 16. With the engine running on "LOW" RPM's, measure voltage between Terminals 5 & 6. Reading should vary between 11 and 13 volts. If no voltage is present, replace the Precision Governor Control Box. If voltage is present, go on to Step 17.
- 17. With the meter leads on Terminals 5 & 6, "BUMP" the throttle linkage and observe the meter reading. Reading should vary between 11 & 13 volts. If the reading does not fluctuate, replace the Governor Control Box. If reading does fluctuate, go on to Step 18.
- 18. Locate the Terminal Strip on the Governor Actuator. Refer to Figure 5-6, on Page 11 for location.
- 19. With the engine running on "LOW" RPM's, measure voltage between the Terminals on the Governor Actuator. Reading should be 11-13 volts. If no voltage is present, repair the wiring between the Governor Control Box and the Governor Actuator. If voltage is present, go on to Step 20.
- 20. Remove wires from the Terminals of the Governor Actuator.
- 21. Set meter to "OHMS" setting. Measure the resistance across the actuator terminals. Reading should be 2 to 3 OHMS. If the reading is outside this range, replace the Governor Actuator.



PRECISION GOVERNOR TERMINAL DESCRIPTION

TERMINAL	FUNCTION	
1	12 volt power supply	
2	Ground	
3	Distributor Signal	
4	Distributor Signal	
5	Actuator Signal	
6	Actuator Signal	
7	Speed Signal Aux. 1	
8	Speed Signal Aux. 1	

Terminals 3 & 4 are tied together for a standard point type Ignition System.

Power on Terminal 7 only will result in Idle Speed (1300 RPM's).

Power on Terminal 8 is for Starting Speed. Activates when Starter is engaged.

No power on Terminals 7 and 8 will result in High Engine RPM's.

A "quick" way to check the Governor Control Box is to remove the wire on Terminal 1. Using a jumper wire connected to a 12 volt source momentarily touch Terminal 1. The Actuator should "kick" and return to the idle position. If the Actuator does not "kick " the Control Box is defective.

FACTORY ADJUST OR INTEGRAL Potentiometer setting. Turn Potentiometer fully counter-clockwise. Turn Potentiometer 1/4 turn clockwise. This potentiometer is used to "fine tune" the Controller when the "gain" Potentiometer will not adjust properly. This potentiometer must be set in this base setting before all other adjustments are made.

PRECISION GOVERNOR SETUP PROCEDURE

- 1. With the Throttle Linkage removed from the Carburetor and Governor Actuator, measure the distance between the centers of the swivel ends. Adjust the swivel ends to obtain a 9-7/8" to 10-1/8".distance. (Refer to Figure 5-7).
- 2. Reinstall the Throttle Linkage back onto the Carburetor and Governor Actuator. Check for correct any binding. NOTE: The Actuator Lever, Linkage and Throttle Shaft MUST move freely.
- 3. Back off the Idle Stop Screw to allow the Throttle Plate to close completely.
- 4. Loosen the nut and bolt securing the Actuator Lever to the Actuator Shaft.
- 5. Move the Throttle Shaft on the carburetor to the closed position and hold.
- 6. Ensure the Governor Actuator Shaft is fully clockwise against the internal stop. Tighten the nut and bolt securing the Actuator Lever to the Actuator Shaft.
- 7. Rotate the Actuator Lever to the wide open position.
- 8. Measure the distance between the wide open throttle stop and the Throttle Shaft Lever. Adjust the Throttle Linkage to obtain a 1/4" clearance. (Refer to Figure 5-8.)
- Attach a suitable Tachometer to the engine. Remove the Throttle Linkage from the carburetor. Manually hold the Throttle Shaft in the "IDLE" position. CAUTION: Failure to hold the Throttle Shaft in the "IDLE" position will result in engine damage.
- 10. Start the engine and adjust the Idle Stop Screw to obtain 800 RPM's.
- 11. Shut off the engine and reattach the Linkage back to the carburetor.

NOTE: Precision Governor Setup Procedure continued on Page 14.



PRECISION GOVERNOR SETUP PROCEDURE (Continued)

- 12. Locate the "GAIN" potentiometer in the Governor Control Box. (Refer to Figure 5-9 on Page 15 for location).
- 13. <u>GENTLY</u> turn the "GAIN" potentiometer counter-clockwise until it stops.
- 14. Turn the "GAIN" potentiometer clockwise approximately 1/3 its full travel.
- 15. Start the Engine and turn the High Engine Switch to the "HIGH" position. Locate and adjust the "HI SPEED" potentiometer to obtain 2800 RPM's. Refer to Figure 5-9 on Page 15 for location.
- 16. Turn the High Engine Switch to the "LOW" position. Locate and adjust the "AUX 1" potentiometer to obtain 1300 RPM's.
- 17. Shut off the engine.
- 18. Locate and disconnect wire #32A and #34A from the Governor Control Box. (Refer to Figure 5-10 on Page 15 for location.
- 19. Using a jumper wire, connect Terminals 1 and 8 together. (Refer to Figure 5-10 on Page 15.
- 20. Start the engine and adjust the "AUX 2" potentiometer to obtain 1600 RPM's.
- 21. Remove the jumper wire and reattach wires #32A and 34A to Terminals 7 and 8 of the Governor Control Box.
- 22. Start the engine and "bump" the Throttle Linkage, noting how many "surges" occur until the RPM's stabilize. Adjust the "GAIN" Potentiometer to obtain 1 to 3 "surges".
- 23. Using the controls on the Operator's Control Box, toggle the Low/High Throttle Switch between "LOW" and "HIGH" several times. The Governor should respond immediately when switched to "HIGH" throttle. Adjust the "GAIN" potentiometer to obtain immediate throttle response while maintaining the 1 to 3 "surges".
- 24. Paint all potentiometers with nail polish or RTV silicone to prevent vibration from changing the settings.



PRECISION GOVERNOR SETUP PROCEDURE (Continued)

KUBOTA GASOLINE ENGINE GOVERNOR ADJUSTMENT PROCEDURE

- 1. Start the engine and warm up 20 to 30 minutes. Stop engine.
- 2. Loosen nut on Governor Lever (Item #1 in Figure 5-11). Push top of governor lever towards radiator to fully open throttle valve in carburetor.
- 3. Using a slotted screwdriver, rotate the Governor Lever Pivot (Item #2) clockwise until it stops rotating. Tighten nut on Governor Lever (Item #1).
- 4. Start the engine. Push the Governor Lever (Item #1) towards rear of engine. Adjust Idle Stop Screw (Item #6) on top of the carburetor to obtain 1800 RPM's.
- 5. Push the Speed Control Lever (Item #5) towards the radiator and hold. Adjust the Full Stop Screw of the Throttle Solenoid (Item #3) to obtain 3400 RPM's.
- 6. Move Speed Control Lever (Item #5) towards the rear of engine and hold. Adjust Idle Speed Screw (Item #4) to obtain 1300 RPM's.
- 7. On the Operator's Control Box, toggle the Low/High Throttle Switch to The "HIGH" position. Adjust the linkage on the High Engine Solenoid to obtain 3600 rpm's, making sure solenoid plunger is bottomed out fully in the solenoid body. NOTE: Failure to bottom out plunger will result in a burned out solenoid.
- 8. Test governor operation. Engine should not stall when lifting platform at low engine.



Figure 5-11.

OUTRIGGER PROXIMITY SWITCH TEST PROCEDURE



NOTE: DO NOT USE A VOLT/OHM METER

OUTRIGGER MECHANICAL LIMIT SWITCH WIRE COLORS (31' Models with Serial Number 36381 & Above) (41' Models with Serial Number 40841 & Above)



OUTRIGGER PROXIMITY SWITCH WIRE COLORS (31' Models with Serial Number 36380 & Below) (41' Models with Serial Number 40840 and Below)



OLD PROXIMITY SWITCH WIRE COLORS

2 SPEED MOTOR ASSEMBLY



TOP OF BLOCK 2 SPEED MOTOR (P/N 109311)

3 - Smaller holes have O-rings and no Check Balls

2 - Bigger holes get Check Balls

In the Motor piece there are 2 holes that get 1 check ball each (4 Check Balls total)

MOTOR PARTS LIST

1 2	Valve - (P/N103623) Check Ball- (P/N115340)	3	Coil - (P/N103613)
		Seal Kit - (P/N115338)	

Seal Kit -(P/N115338)

WHEEL BOLT/NUT INSPECTION AND TORQUING PROCEDURE

It is necessary to check the torque on all wheel nuts and wheel bolts at pre-delivery, after 8 hours of operation and at weekly intervals using the following procedure:

1. Confirm that each wheel fastener is torqued to 140 ft. lbs. (± 5 ft. lbs.) using a suitable torque wrench of known accuracy. If any fastener falls outside of the specified tolerance, ALL fasteners MUST be torqued using the tightening sequence shown in Figure 5-1.



Figure 5-1. Wheel Fastener Tightening Sequence

2. Again, confirm that each wheel fastener is torqued to the specified tolerance. Retorque as necessary until ALL fasteners are properly torqued.

WHEEL REINSTALLATION AND TORQUING PROCEDURE

When a Wheel/Tire Assembly has been removed or replaced, it will be necessary to follow the procedure below to ensure proper installation:

- 1. Inspect wheel fastener threads for damage of defects. Replace if defective.
- 2. Clean the mounting surfaces of the hub and wheel rim of debris, rust, excess paint, etc.
- 3. Mount wheel on the hub, centering mounting holes on the wheel studs or bolt holes. Use appropriate lifting device as required.
- 4. Install the wheel nuts or wheel bolts and hand tighten to center the rim.
- 5. Tighten the nuts or bolts to approximately 50 ft. lbs. torque using the tightening sequence in Figure 5-1. above.
- 6. Tighten to 100 ft. lbs. using the same sequence.
- 7. Tighten to 140 ft. lbs. using the same sequence.
- 8. Repeat the tightening sequence to confirm that none have changed from 140 ft. lbs. If any are found below 140 ft. lbs., repeat complete sequence until there is no change in torque values. If possible, drive the machine prior to checking torques.
- 9. Check torque values after 8 hours of operation and then at weekly intervals.

Notes

SECTION 6 PARTS LIST

GENERAL

The information contained in this section is designed to aid the user in locating and identifying replacement parts. Component parts of various assemblies and subassemblies comprising the work platform are illustrated and accompanied by a descriptive parts list. Exploded drawings are used to show relative location of component parts in disassembly order. If a part cannot be found in this section, order by work platform model number and serial number, giving a complete description of the part.

PARTS ORDERING INFORMATION

When ordering replacement parts, the complete part number and description should be used to ensure proper identification and delivery of the desired item. This complete identification should also be used when requesting equipment information.

METHOD OF LISTING

Parts are listed in order according to the reference number shown in the illustration, followed by a full description based upon the "NOUN FIRST" method. That is, the noun name of the part is listed first, then the modifying description information which serves to specifically identify the item. For example: PIN, Clevis. Assemblies or groups are shown at the beginning of a parts list and are identified with the letter references A, B, C, etc. Individual parts in these lists have corresponding letters after their description to identify which assembly or group it is used in. Individual parts without identifying letters are used in all the assemblies or group shown at the beginning of the parts list. Descriptions preceded with an (•) indicates a serviceable component or attaching hardware for the higher level assembly.

QUANTITIES (Units per Assy.)

The quantities of each part that are required to complete the assembly. If quantity is (AR), it is understood that the quantity may vary when machine is equipped with certain options. Order quantity as needed.

HARDWARE

Standard screws, washers, nuts, etc. are not identified by a reference number. These parts are known as COMMON HARDWARE items and appear indented under the major items with which they are used. They should be ordered separately as listed, since they are not component parts of the pieces they attach to.

HOW TO ORDER REPAIR PARTS

1. Address all orders to your local SKYJACK dealer.

2. Specify model and serial number of the work platform (found on the serial number plate).

- 3. List the quantity needed.
- 4. List the length needed (if bulk item).

5. List the part number and description as shown in this manual for each item.

6. Show billing and shipping address and name of individual if possible.

7. Suggest best routing.

STOMER
ALER
DEL NUMBER
RIAL NUMBER
TE PURCHASED

USE ONLY SKYJACK AUTHORIZED REPLACEMENT PARTS!

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SJ-800 Series Engine Powered 112114AE

FIGURE 6-1. MAIN PLATFORM AND RAILINGS

1 107623 104625 WELDMENT, Main platform 1 104625 • SCREW, Set 3/8-16 x 5/8" Ig. 103978 • NUT, Hex 3/8-16 2 107614 PLATE, Railing retainer 3 108791 CLIP, Cable (stick-on) (Replaces 104128) 4 107621 RAILING, Upper front LH (NOTES A & B) 111840 RAILING, Lower front LH/lower rear RH 6 107615 RAILING, Lower front H/lower rear LH 7 108583 • BOLT, Hex.hd 5/16-18 x 2" Ig. 103865 • BOLT, Hex.hd 5/16-18 x 2" Ig. 103864 • NUT, Lock 5/16-18 x 2" Ig. 103884 • NUT, Lock 5/16-18 x 2" Ig. 103884 • NUT, Lock 5/16-18 x 2" Ig. 103884 • NUT, Lock 5/16-18 9 104183 PAD, Entry insulation 27" Ig. (Machines with half gate) 10 110012 8/1100418 PAD, Entry insulation 27" Ig. (Machines with half gate) 11 117290 111 117290 11256 WELDMENT, Hinged top gate (half) 13/1 Models with Serial Number 40715 and above)	Acev
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109388 (41 Models with Serial Number 40715 and above) (31' Models with Serial Number 36299 and below)	
(31' Models with Serial Number 36299 and below)	4
(ST Models with Senai Number 36299 and below)	4
(41' Models with Sorial Number 40714 and below)	
100596 HINGE Spring return (Mellon)	Λ
$103856 \bullet BOLT Hey-hd 1/4-20 \times 3/4" lo$	12
104000 • WASHER Lock 1/4"	12
103983 • NUT. Jam 1/4-20	12
103632 • SCREW. Self-tapping 1/4-14 x 3/4" lg.	12
Parts list continued on the following page.	

FIGURE 6-1. MAIN PLATFORM AND RAILINGS (Continued)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
14	110693 103632	STOP, Latch SCBEW, Self-tapping 1/4-14 x 3/4" lg. 	2
15	105307	PLATE Latch release	2
16	105312	GUIDE, Spring	2
17	103107	SPRING Compression	2
18	109377	PIN. Latch 5/8" x 4-3/16" lg.	2
19	105310	PIN. Boll $1/8" \times 1 - 1/4"$ la	2
20	100509	PIN. Locking 3/8"	AR
21	105807	CABLE. Lanvard 6" lo	AR
22	100702	CAP Tube end	AR
23	107621	RAILING. Upper front RH (NOTES A & B)	1
	111808	RAILING, Upper front RH (NOTE D)	1
24	107621	RAILING, Upper rear LH (NOTES A & C)	1
	111808	RAILING, Upper rear LH (NOTE D)	1
25	107621	RAILING, Upper rear RH (NOTES A & C)	1
	111840	RAILING, Upper rear RH (NOTE D)	1
26	111842	RAILING, Hinged lower end (NOTE D)	AR
27	111845	RAILING, Hinged upper end (NOTE D)	AR
28	101778	CLAMP. Entry railing	AR
29	115531	LABEL. Warning falling hazard	AR
		NOTE A - Machines with rigid end rails. NOTE B - Machines with front extension platform. NOTE C - Machines with rear extension platform. NOTE D - Machines with hinged end rails.	



FIGURE 6-2. 4 FT. ROLL-OUT EXTENSION PLATFORM ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		NOTE: Quantities shown are for a single	
		extension platform.	
1	107639	WELDMENT. Extension platform	1
	105829	• PIN. Roller 3/4" x 2-3/8" lg.	2
	100141	ROLLER, Rear	2
2	117200	RAILING, Pivoting front	1
		(31' Models with Serial Number 40631 and above)	
		(41' Models with Serial Number 36265 and above)	
	112439	RAILING, Pivoting front	1
		(31' Models with Serial Number 40630 and below)	
		(41' Models with Serial Number 36264 and below)	
	110027	RAILING, Removable front (Earlier models)	1
3	117198	RAILING, Side LH	1
		(31 Models with Serial Number 40631 and above)	
	110000	(41 Models with Senai Number 36265 and above)	4
	113000	(31' Models with Sorial Number 40630 and below)	1
		(41' Models with Serial Number 36265 and below)	
	110017	BAILING Side I H	1
	110017	(Earlier models with removable front rail)	
4	117199	RAILING, Side RH	1
		(31' Models with Serial Number 40631 and above)	
		(41' Models with Serial Number 36265 and above)	
	113681	RAILING, Side RH	1
		(31' Models with Serial Number 40630 and below)	
		(41' Models with Serial Number 36264 and below)	
	110016	RAILING, Side RH	1
_		(Earlier models with removable front rail)	
5	115014	WELDMENI, Push bar upper	1
		(Replaces 112191 by also ordering (1) TUBE,	
6	115010	TURE Duch her lower LH	0
D	115016	(Lead with Push Bar 115014)	2
	112511	TUBE Push bar lower I H	2
	112311	(Used with Push Bar 112191)	2
7	115015	TUBE. Push bar lower BH	2
		(Used with Push Bar. 115014)	_
	112511	TUBE, Push bar lower, RH	1
		(Used with Push Bar, 112191)	
8	112467	PLUNGER, Quick release pull ring	2
9	106432	U-BOLT, 1/4-20 x 3/4"ID	2
10	112389	PIN, Quick release	1
11	112736	STOP, Extension platform (welded to platform deck)	1
		Parts list continued on the following page	

FIGURE 6-2. 4 FT. ROLL-OUT EXTENSION PLATFORM ASSEMBLY (Continued)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
12	111682	CHANNEL ASSEMBLY, Slide handrail (Earlier models with removable front rail) • CHANNEL	2
13 14 15	103550 111136 102237 101956 101954 101955	 PAD, Wear ROLLER, Extension platform PIN, Roller 3/4" x 3-11/32" lg. PAD, Slider 1-1/2" dia. x 1/4" thk. PAD, Slider 1-1/2" dia. x 3/8" thk. PAD, Slider 1-1/2" dia. x 7/16" thk. 	6 2 2 AR AR AR
16 17	110425 (Ref.)	PAD, Deck slider 1" dia. x 11/32" thk. WELDMENT, Main platform	8
18 19 20 21 22 23 24	100509 105807 107057 115543 105673 115531 114998	(Refer to Figure 6-1,Page 4) PIN, Locking 3/8" CABLE, Lanyard 6" lg. PAD, Platform slide 3/8 x 1-3/4 x 4" lg. LABEL, No step BUMPER, Extension platform LABEL, Falling hazard PAD, Extension stop	AR 4 2 2 AR 2



FIGURE 6-3. 4 FT. POWERED EXTENSION PLATFORM ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		NOTE: Quantities shown are for a single extension platform.	
1	107639 105829 100141	 WELDMENT, Extension platform PIN, Roller 3/4" x 2-3/8" lg. ROLLER, Rear 	1 2 2
2	117200	RAILING, Pivoting front (31' Models with Serial Number 40631 and above) (41' Models with Serial Number 36265 and above)	1
	112439	RAILING, Pivoting front (31' Models with Serial Number 40630 and below) (41' Models with Serial Number 36264 and below)	1
3	110027 117198	RAILING, Removable front (Earlier models) RAILING, Extension platform side LH (31' Models with Serial Number 40631 and above) (41' Models with Serial Number 36265 and above)	1
	113680	RAILING, Side LH (31' Models with Serial Number 40630 and below) (41' Models with Serial Number 36264 and below)	1
	110017	RAILING, Side LH (Earlier models with removable front railing)	1
4	117199	RAILING, Extension platform side RH (31' Models with Serial Number 40631 and above) (41' Models with Serial Number 36265 and above)	1
	113681	RAILING, Side RH (31' Models with Serial Number 40630 and below) (41' Models with Serial Number 36264 and below)	1
	110016	RAILING, Side RH (Earlier models with removable front railing)	1
5	(Ref.)	POWER UNIT WITH VALVES (Order components) (For hydraulic connections, refer to Figures 6-7, Page 21 and Figure 6-8, Page 22)	1
6	103397 107440 104345 104409 103920 111289 300243 300248 113172 300242 113173 111290 (Ref.) 103860 103995 103980	 VALVE ASSEMBLY, 12 Volt spool (Vickers) COIL, 12 Volt (Vickers) CONNECTOR, Gray CONNECTOR, Black BOLT, Soc-hd #10-24 x 2" lg. POWER UNIT ASSEMBLY, 12 Volt CAP, Filler/breather MOTOR, 12 VDC BRUSH SET, Motor SOLENOID, 12VDC PUMP, Hydraulic 1.2gpm BLOCK, Manifold BOX ASSEMBLY, Powered ext. platform control (For components, refer to Figure 6-4, Page 16) BOLT, Hex-hd 1/4-20 x 1.75" lg. 	AR AR AR 1 1 1 AR 1 1 2 2 2
		Parts list continued on the following page.	

FIGURE 6-3. 4 FT. POWERED EXTENSION PLATFORM ASSEMBLY (Continued)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
		NOTE: Quantities shown are for a single extension platform.	
7	117188 103856	 PLATE, Control box mounting (replaces 105538) BOLT, Hex-hd 1/4-20 x 3/4" lg. WASHER Look 1/4" 	1 4
8	(Ref.)	PANEL ASSEMBLY, Powered platform electrical (For components, refer to Figure 6-6, Page 19 & 20)	4
9	103845 103404 100397 110583	 BOLT, Hex-hd 5/16-8 WASHER, Lock 5/16 NUT, Hex 5/16-18 BRACKET, Power unit mounting 	2 2 2 1
10 11	(Ref.) 108363	(For components refer to Figure 6-5A, Page 17 or 6-5B, Page 18) WELDMENT, Cylinder rod mount (Earlier models with spherical end mounted	1
12	108690	extension platform cylinder) PIN, Cylinder 3/4" x 3-5/8" lg. (Earlier models with spherical end mounted	1
13 14 15 16	100759 111586 111136 110425 (Ref.)	 RING, Retaining SPACER, Power unit mounting ROLLER, Extension platform PAD, Deck slider 1" dia. x 11/32" thk. WELDMENT, Main platform 	2 1 2 8 1
17	101956 101954 101955 100509	(Refer to Figure 6-1, Page 4) PAD, Slider 1-1/2" dia. x 1/4" thk. PAD, Slider 1-1/2" dia. x 3/8" thk. PAD, Slider 1-1/2" dia. x 7/16" thk. PIN Locking 3/8"	AR AR AR AR
19 20	105807 111682	CABLE, Lanyard 6" lg. CHANNEL ASSEMBLY, Slide handrail (Earlier models with removable front rail)	AR 2
21 22 23 24	103550 106446 108366 102237 113304	 CHANNEL PAD, Wear RING, Retaining WELDMENT, Cylinder front support PIN, Roller 3/4" x 3-11/32" Ig. WASHER, Isolator 3/4" x 2" (Later medale with isolater mounted sulinder) 	2 6 1 2 2
25	113305	ISOLATOR, Cylinder rod (Later models with isolator mounted cylinder)	2
26	113331	ADAPTER, Cylinder rod (Later models with isolator mounted cylinder)	1
27	113334	WELDMENT, Cylinder rod mount (Later models with isolator mounted cylinder)	1
28 29	115544 113360 104002	SPACER, $3/4 \times 1 \times 3/4$ " lg. BOLT, Hex-hd $3/4 \times 16 \times 1-1/2$ " lg. • WASHER, Lock $3/4$ "	1 1 1
30 31 32 33	113164 107057 105673 106450	CLAMP, Cable PAD, Platform slide 3/8 x 1-3/4 x 4" lg. BUMPER, Extension platform NUT, Jam 3/4-16	1 4 2 1

FIGURE 6-4. POWERED EXTENSION PLATFORM CONTROL BOX ASSEMBLY

Index	Skyjack	Description	Units
No.	Part No.	1 2 3 4 5 6 7	per Assy.
Α	115592	CONTROL BOX ASSEMBLY, Powered ext. platform	-
В	115481	CONTROL BOX ASSEMBLY, Powered ext. platform (Early models with rotary switch controls)	-
1	115539	• BOX, Control, A	1
2	103041	 STRAIN RELIEF, Straight 1/2", A 	1
3	106401	CORD, Coiled 18/3	AR
4	107712	 CONNECTOR ASSEMBLY, 5 pole male (Replaces round connector by also ordering (1) CONNECTOR, 107711) 	1
5	108328	LABEL, Platform extend/retract	1
6	102853	SWITCH, Toggle, A	2
/	111181		2
a a	103036	STRAIN BELIEF Elbow 90° 1/2" R	1
10	102976	• BOX. Control. B	
11	(Ref.)	SWITCH ASSEMBLY, Platform extend/retract. B	1
	102837	HEAD, Selector switch	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
12	114377	□ • PLUG Plastic 1/2" Δ	1
			'

		(wachines with Retaining Ring Secured Piston)	
Index No.	Skyjack Part No.	Description	Units per Assy.
1 2 *3 *4 *5 *6 7 *8 9 10 11 12	118090 119418 119407 110976 103825 106452 106452 106449 108798 103828 118089 117942 116069 103830	CYLINDER ASSEMBLY, 5 Ft. Extension platform • WELDMENT, Cylinder barrel • GLAND, Cylinder end • O-RING, Piston • SEAL, Piston • RING, Piston wear • WIPER, Rod • SEAL, Rod • O-RING, Gland • ROD, Piston • PISTON • SPACER, Limit • NUT, Lock 5/8-11 grade c KIT, Seal Repair * Part of Seal Repair Kit, 107396	- 1 1 1 1 1 1 1 1 1 8 R

			-800-26
Index No.	Skyjack Part No.	Description	Units per Assy.
A B 1 2 *3 4 *5 *6 *7 *8 9 10 11 12 3 14	# \$ 108400 106454 108723 103829 103825 106452 106452 106453 106453 114344 103830 106450 103420 103822 107396	CYLINDER ASSEMBLY, Extension platform (113429) CYLINDER ASSEMBLY, Extension platform (108728) • WELDMENT, Cylinder barrel, A • WELDMENT, Cylinder barrel, B • GLAND, Cylinder end • O-RING, Piston • SEAL, Piston • RING, Piston wear • WIPER, Rod • SEAL, Rod • O-RING, Gland • ROD, Piston • PISTON (Replaces 106457) • NUT, Lock 5/8-11 grade C • NUT, Jam 3/4-16, B • END, Spherical bearing, B • SPACER, Limit (Used with Piston, 106457) KIT, Seal repair *Part of Seal Repair Kit, 107396	- 1 1 1 1 1 1 1 1 1 1 1 1 8 R
		#Order Cylinder 118090 \$ Order Cylinder 118090 plus (1) SPHERICAL BEARING END, 103420 and (1) NUT, 106450.	

FIGURE 6-6. POWERED EXTENSION PLATFORM ELECTRICAL PANEL (31' Models with Serial Number 36901 and Below) (41' Models with Serial Number 41892 and Below)

	(<image/> <image/>	800-11
Index No.	Skyjack Part No.	Description	Units per Assy.
1 2 3 4	103012 103955 103985 117325 111611 (Ref.) 104345 104409 103257 (Ref.) 104345 104409 103260 (Bof)	 BLOCK, Terminal BOLT, Machine #6-32 x 3/4" lg. NUT, Machine #6-32 BREAKER, 15 Amp circuit (replaces 102331) PANEL, Powered platform electrical CORD ASSEMBLY, Valve manifold (Machines with single extension platform) CONNECTOR, Gray CONNECTOR, Black CORD ASSEMBLY, Valve manifold (Machines with two extension platforms) CONNECTOR, Gray CONNECTOR, Gray CONNECTOR, Gray CONNECTOR, Black CONNECTOR, Black CONNECTOR, Black CONNECTOR, Black CORD, 18/5 x 24" lg. 	1 2 1 1 1 1 1 1 2 2 1 1
5	(Ref.) 103257 102921	 CORD ASSY, Front powered ext. platform control box (Refer to Figure 6-4, Page 16) CORD, 18/3 x 180" lg. DIODE, 6 Amp 	1 1 AR
7 8	103036 (Ref.)	CONNECTOR, Strain relief CORD ASSY, Rear powered ext. platform control box (Refer to Figure 6-4, Page 16)	AR 1
9	(Ref.) 103257	 CORD, 18/3 x 180 lg. CORD ASSY., Electrical panel to motor contactor CORD, 18/3 x 24" lg. 	1 1 1

			2044
Index	Skylack	Description	Units
No.	Part No.	1 2 3 4 5 6 7	per Assy.
A 1 2 3 4 5	(Ref.) (Ref.) 120844 122178 122179 119900 103257 107711 120658 122155 122171 119896 119825 111354 120748 121554	SINGLE POWERED EXTENSION PLATFORM DOUBLE POWERED EXTENSION PLATFORM (Shown) BOARD, Power Deck PC HARNESS, Power Deck Control box, A HARNESS, Power Deck Control box, B • PLUG, 8 Pin PC Board Connector • CABLE, Cabtire 18/3 (180" long) • CONNECTOR, Cabtire 5 Pin Female FUSE, 10A HARNESS, Power Deck Directional Valves, A HARNESS, Power Deck Directional Valves, B • PLUG, 4 Pin PC Board Connector • CONNECTOR, Soleniod • PROTECTOR, 3/8" Wire, A • PROTECTOR, 1/2" Wire, B HARNESS, Power Deck Pump Contactor	- 1 1 1 AR AR 1 1 AR 20" 20"
6	103257 122169	CABLE, Cabtire 18/3 BRACKET, Power Deck PC Board	1 24" 1

Γ





FIGURE 6-8. HYDRAULIC HOSE CONNECTIONS - Powered Extension Platform (31' Models With Front and Rear Extension Platforms)

SJ-800 Series Engine Powered 112114AE

FIGURE 6-8. HYDRAULIC HOSE CONNECTIONS - Powered Extension Platform (31' Models With Front and Rear Extension Platform)

Index No.	Skyjack Part No.	Description	Units per Assy.
1	(Ref.)	CYLINDER ASSEMBLY, Powered extension platform (For components, refer to Figure 6-5A, Page 17 or Figure 6-5B, Page 18)	2
2	(Ref.)	POWER UNIT, Powered extension platform (For components, refer to Figure 6-3, Page 12)	1
2 3 4 5 6 7 8 9	(Ref.) 103069 103073 104487 104134 111291 102540 102473	POWER UNIT, Powered extension platform (For components, refer to Figure 6-3, Page 12) FITTING, Connector #6orb - #6 HOSE ASSEMBLY, Front cylinder extend 32" lg. HOSE ASSEMBLY, Front cylinder retract 93" lg. BLOCK, Rear extension platform valve manifold HOSE ASSEMBLY, Rear cylinder extend 13" lg. HOSE ASSEMBLY, Rear cylinder retract 47" lg.	1 2 6 1 1 1 1



FIGURE 6-9. HYDRAULIC HOSE CONNECTIONS - Powered Extension Platform (41' Models With Front and Rear Extension Platform)

FIGURE 6-9. HYDRAULIC HOSE CONNECTIONS - Powered Extension Platform (41' Models With Front and Rear Extension Platform)

Index No.	Skyjack Part No.	Description	Units per Assy.
1	(Ref.)	CYLINDER ASSEMBLY, Powered extension platform (For components, Refer to Figure 6-5A, Page 17 or Figure 6-5B, Page 18)	2
2	(Ref.)	POWER UNIT, Powered extension platform (For components, Refer to Figure 6-3, Page 12)	1
3 4 5 6 7 8 9	103069 103073 102540 102473 111291 104487 104134	(For components, Refer to Figure 6-3, Page 12) FITTING, Connector #6orb-#6 HOSE ASSEMBLY, Front cylinder extend 13" lg. HOSE ASSEMBLY, Front cylinder retract 47" lg. BLOCK, Rear extension platform valve manifold HOSE ASSEMBLY, Rear cylinder extend 32" lg. HOSE ASSEMBLY, Rear cylinder retract 93" lg.	2 6 1 1 1 1



FIGURE 6-10. CONTROL BOX ASSEMBLY (Machines Without Outrigger Option)

Index No.	Skyjack Part No.	Description	Units per Assy.
Δ	114496	CONTROL BOX ASSEMBLY (ANSI/SIA & CSA)	_
		(Consists of items 1 thru 30)	
В	114492	CONTROL BOX ASSEMBLY(ANSI/SIA & CSA w/horn)	-
		(Consists of items 1 thru 30)	
С	114497	CONTROL BOX ASSEMBLY (CE)	-
		(Consists and items 1 thru 30)	
1	110065	WELDMENT, Control box	1
2	108703	COVER, Control box bottom	1
	112327	• • SCREW, Self-tapping #8-18 x 1/2" lg.	10
3	103334	CONTROLLER ASSEMBLY, Drive/steer	1
	100057	(For components, refer to Figure 6-12, Page 39)	
	1103957	• • SUREW, Machine #8-32 X 1/2"	4
4	(Def.)	• • WASHER, LOCK #8	4
4	102202		1
	102671	BASE Indicator light	1
	102071	BAGE, indicator light BAGE, indicator light	1
5	(Ref.)	SWITCH ASSEMBLY Throttle select	1
	102836	• HEAD. Select switch	1
	103100	BASE. Contact	1
	103141	BLOCK, N.O. Contact	1
6	(Ref.)	SWITCH ASSEMBLY, Range select	1
	102836	HEAD, Select switch	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
7	(Ref.)	 SWITCH ASSEMBLY, Up/down selector 	1
	102837	HEAD, Selector switch	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
8	(Ref.)	SWITCH ASSEMBLY, Emergency stop	1
	100149	• • WASHER, Flat	
	102769	• • HEAD, Stop Switch	1
	103700	• BLOCK N.C. Contact	1
a	(Bef)	SWITCH ASSEMBLY Start push-button	1
	102851	• HFAD Push-button switch	1
	103100	BASE. Contact	1
	103141	BLOCK, N.O. Contact	1
10	(Ref.)	SWITCH ASSEMBLY, Choke or glow plug	1
	102851	HEAD, Push-button switch	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
11	(Ref.)	SWITCH ASSEMBLY, Lift enable push-button	1
	108854	HEAD, Push-button switch (green)	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
		Parts list continued on the following page.	

FIGURE 6-10. CONTROL BOX ASSEMBLY (Continued) (Machines Without Outrigger Option)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
12	(Ref.) 102753 103100 103141 103225	 SWITCH ASSEMBLY, Key select HEAD, 3-Position key select BASE, Contact BLOCK, N.O. Contact BLOCK, N.C. Contact 	1 1 1 1
13 14	102956 103012 103955 103985	 PLUG, 7/8" Hole STRIP, Terminal block SCREW, Machine #6-32 x 3/4" lg. NUT, Machine #6-32 	AR 1.5 6 6
15	102627 111814	 LABEL, Emergency stop, A LABEL, Emergency stop, B 	1 1
16 17	108855 102628 108334	 LABEL, Lift enable LABEL, Start, A LABEL, Start, B LABEL, Lin (eff(closure A)) 	1 1 1
18	102657 108328 110712	 LABEL, Up/off/down, A LABEL, Up/off/down, B LABEL High/low range 	1 1 1
20	102658 108332	 LABEL, Throttle, A LABEL, Throttle, B 	1
21	103060 108329 102448	 LABEL, Choke, A LABEL, Choke, B LABEL, Glow plug, A LABEL, Clow plug, P 	1 1 1
22	103126	 LABEL, Glow plug, B LABEL, Off/lift/drive, A LABEL Off/lift/drive B 	1
23	103080 108331	 LABEL, On, A LABEL, On, B 	1
24 25 26	117023 103041 114485	 LABEL, CE, B (not shown) STRAIN RELIEF, Straight 1/2" CABLE ASSEMBLY, Control box 16 pole (no options) (Replaces cable with 28 pole round connector by also ordering (1) CONNECTOR, 114477) 	2 1 1
	700162 114478	 CABLE, 18/30 CONNECTOR ASSEMBLY, 16 Pole male (Replaces 28 pole round connector by also ordering (1) CONNECTOR, 114477) 	70" 1
	115283	CABLE ASSEMBLY, Control box 32 pole (w/options) (Replaces cable with 28 pole round connector by also ordering (1) CONNECTOR, 114476)	1
	700162 114475	 CABLE, 18/30 CONNECTOR ASSEMBLY, 32 Pole male (Replaces 28 pole round connector by also ordering (1) CONNECTOR, 114476) 	70" 1
27 28 29	113451 114373 111181	 BRACKET, Terminal block mount SWITCH, Torque toggle GUARD, Toggle switch 	1 1 1
		Parts list continued on the following page.	

FIGURE 6-10. CONTROL BOX ASSEMBLY (Continued) (Machines Without Outrigger Option)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
30 31	114372 106704 107802	 LABEL, Torque switch LABEL, Operator warning, A LABEL, Operator warning, B 	1
		Items 32 and 33 for machines with Horn Option.	
32	(Ref.) 102851 103100 103141	 SWITCH ASSEMBLY, Horn push-button HEAD, Push-button switch BASE, Contact BLOCK, N.O. Contact 	1 1 1
33	102467 105352	LABEL, Horn, A LABEL, Horn, B	1
34 35	100509 105807	 PIN, Locking CORD, Lanyard 6" lg. 	1
		Items 36 and 37 for machines with Hydraulic Generator Option.	
36 37	(Ref.) 103221 112436 103141 112434 112435 112437	 SWITCH ASSEMBLY, Hydraulic generator BULB, 12 Volt HEAD, Illuminated push-button BLOCK, N.O. Contact BLOCK, Switch and hold contact BASE, Lamp LABEL, Hydraulic generator off/on 	1 1 1 1 1 1
38	114481 114482	CABLE ASSEMBLY, Scissor control 16 Pole (no options) (31' Models) CABLE ASSEMBLY, Scissor control 16 pole (no options) (41' Models) (Replaces cables with 28 pole round connector by also ordering (1) CONNECTOR, 114477 and (1) CONNECTOR, 114478)	1
	114477	CONNECTOR, 16 Pole female	1
	114478 115274	 CONNECTOR, 16 Pole male CABLE, Control 18/30 	1 Note 1
	115278	CABLE ASSEMBLY, Scissor control	1
	115279	CABLE ASSEMBLY, Scissor control 32 Pole (with options) (41' Models) (Replaces cables with 28 pole round connector by also ordering (1) CONNECTOR, 114475 and (1) CONNECTOR, 114476)	1
	114475 114476 115274	 CONNECTOR, 32 Pole female CONNECTOR, 32 Pole male CABLE, Control 18/30 	1 1 Note 1
		NOTE 1- 31' Models require 564" 41' Models require 732"	



FIGURE 6-11. CONTROL BOX ASSEMBLY (Machines With Outrigger Option)

Index No.	Skyjack Part No.	Description	Units per Assy.
Α	114486	CONTROL BOX ASSY. (ANSI/SIA & CSA w/Outriggers) (Consists of items 1 thru 30)	-
В	114490	CONTROL BOX ASSY. (ANSI/SIA & CSA w/Horn) (Consists of items 1 thru 30)	-
С	114494	CONTROL BOX ASSY. (CE w/Outriggers) (Consists of items 1 thru 30)	-
1	108708	WELDMENT, Control box	1
2	108766	COVER, Control box bottom	1
	112327	• BOLT, Self-tapping #8-18 x 1/2" lg.	10
3	103334	CONTROLLER ASSEMBLY, Drive/steer (For components, refer to Figure 6-12, Page 39)	1
	103957	 SCREW, Machine #8-32 x 1/2" lg. 	4
4	(Ref.)	 LIGHT ASSEMBLY, Power indicator 	1
	103202	• • LENS, Red	1
	102671	BASE, Indicator light	
5	103221 (Pof.)	BULB, 12 VOIT SWITCH ASSEMBLY Throttle select	1
5	102836	• HFAD Selector switch	1
	103100	BASE. Contact	1
	103141	BLOCK, N.O. Contact	1
6	(Ref.)	 SWITCH ASSEMBLY, Up/down selector 	1
	102837	HEAD, Select switch	1
	103100	• • BASE, Contact	
7	(Ref.)	SWITCH ASSEMBLY Emergency stop	1
· ·	100149	• WASHER, Elat	1
	102769	HEAD, Stop switch	1
	103100	BASE, Contact	1
	103225	BLOCK, N.C. Contact	1
8	103012	BLOCK, 12 Pole terminal	2
9	(Ref.)	SWITCH ASSEMBLY, Choke/glow plug	1
	102051	BASE Contact	1
	103141	BLOCK, N.O. Contact	1
10	(Ref.)	SWITCH ASSEMBLY, Start	1
	102851	HEAD, Push-button switch	1
	103100	BASE, Contact	1
4.4	103141	BLOCK, N.O. Contact	1
	(Rel.) 104446	• SWITCH ASSEMBLY, Key select	
	102753	 HEAD, 3-Position key select 	1
	103100	BASE, Contact	1
	103141	BLOCK, N.O. Contact	1
	103225	BLOCK, N.C. Contact	3
12	(Ref.)	SWITCH ASSEMBLY, Lift Enable	1
	108854	HEAD, Push-button switch (green)	1
	103100	• BLOCK NO Contact	1
	100141		
		Parts list continued on the following page.	

FIGURE 6-11. CONTROL BOX ASSEMBLY (Continued) (Machines With Outrigger Option)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
13	113452	BRACKET, Terminal block mounting BLUG 1/2" Diameter hale (carlier models)	1
14	102952	SWITCH Outrigger control toggle	1
10	102055	BULIC: 7/8" Diameter hole span in	4
17	115283	CABLE ASSEMBLY Control box (32 polo)	1
17	115203		70" la
	114475	CONNECTOR ASSEMBLY 32 pole	1 1
18	103365	CONNECTOR Cable mount 1/2"	11
10	11/1373	SWITCH Torque toggle	1
20	111181	GLIABD Toggle switch	'
21	(Ref.)	SWITCH ASSEMBLY Bange select	1
	102836	• HEAD. Select Switch	1
	103100	• BASE. Contact	1
	103141	BLOCK, N.O. Contact	1
W	113506	CONTROL BOX LABEL KIT, ANSI/SIA & CSA, A	
X	113517	CONTROL BOX LABEL KIT, CE, B	
22	108855	• LABEL, Lift enable	1
23	102627	 LABEL, Emergency stop, W 	1
	111814	 LABEL, Emergency stop, X 	1
24	102657	 LABEL, Up/off/down, W 	1
	108328	• • LABEL, Up/off/down, X	1
25	103126	• • LABEL. Off/lift/drive, W	1
	108335	LABEL, Off/lift/drive, X	1
26	107802	LABEL, Operator warning	1
28	102658	• • LABEL, Throttle, W	1
	108332	• • LABEL, Throttle, X	1
29	103080	• • LABEL, On, W	1
	108331	• • LABEL, On, X	
30	113632	LABEL, Outrigger control switches	1
31	102628	• • LABEL, Start, W	
20	100004	• • LADEL, Sidii, A	1
52	108329	• • LABEL Choke X	1
33	105352	• • LABEL Horn X	1
34	114372	• • LABEL High/normal torque	1
35	110712	• I ABEL High/low range	1
36	102676	• • LABEL. Steering. X	1
32	102448	LABEL, Glow plug, W (not included in kit)	1
	108330	LABEL, Glow Plug, X (not included in kit)	1
33	102467	LABEL, Horn, A (not included in kit)	1
37	117023	LABEL, CE, X	2
		Parts list continued on the following page.	

FIGURE 6-11. CONTROL BOX ASSEMBLY (Continued) (Machines With Outrigger Option)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
		Item 38 is for machines equipped with Horn Option.	
38	(Ref.) 102851 103100 103141	 SWITCH ASSEMBLY, Horn push-button HEAD, Push-button switch BASE, Contact BLOCK, N.O. Contact 	1 1 1
39 40	100509 105807	PIN, Locking CORD, Lanyard 6" lg.	1 1
		Items 41 and 42 are for machines equipped with Hydraulic Generator Option.	
41	(Ref.) 103221 112436 112434 112435 103141 103225	 SWITCH ASSEMBLY, Hydraulic generator BULB, 12 Volt HEAD, Illuminated push-button switch BLOCK, Switch and hold contact BASE W/CONTACT BLOCKS, Lamp BLOCK, N.O. Contact A BLOCK N.C. Contact 	1 1 1 1 1
42 43	103225 112437 115278 115279	 BLOCK, N.C. Contact LABEL, Hydraulic generator off/on CABLE ASSEMBLY, Scissor control 32 Pole (31' Models) CABLE ASSEMBLY, Scissor control 32 Pole (41' Models) (Replaces cables with 28 pole round connector by also ordering (1) CONNECTOR, 114475 and (1) CONNECTOR, 114476) 	1 1 1
	114475 114476 115274	 CONNECTOR, 32 Pole female CONNECTOR, 32 Pole male CABLE, Control 18/30 	1 1 Note 1
		NOTE 1- 31' Models require 564" 41' Models require 732"	

	 1 2 4 3 5 6 7 	MA-S	JM-13A
Index No.	Skyjack Part No.	Description	Units per Assv
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	103334 105735 105734 105733 105738 105737 105736 105378 106729 106730 106725 106726 106092 102768 106731 110982	CONTROLLER ASSEMBLY, Drive/steer • CAP, Elastic • ACTUATOR, Rocker • SWITCH, Directional • KNOB HALF • SPRING, Compression • SLIDE LOCK • HANDLE EXTENSION • HOUSING • SPRING, Handle return • RATCHET • BUSHING, Spring • CIRCUIT BOARD ASSEMBLY • • SWITCH W/ACTUATOR • SCREW, Hollow • GASKET, Housing	- 1 1 2 2 1 1 1 1 1 1 1 1 1



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FIGURE 6-13. SCISSOR ARM ASSEMBLY (31' Models)

Index No.	Skyjack Part No.	Description	Units per Assy.
1	110363	ARM ASSEMBLY, 1st Inner	1
2	110328	ARM ASSEMBLY, 1st Outer	1
3	110377	ARM ASSEMBLY, 2nd Inner	1
4	110347	ARM ASSEMBLY, 2nd Outer	1
5	110395	ARM ASSEMBLY, 3rd Inner	1
6	110361	ARM ASSEMBLY, 3rd Outer	1
7	101564	BUSHING, Center pin 1-3/4" x 1-1/2" lg.	18
8	110408	PIN, Center 1-3/4" x 9-1/2" lg.	6
	117840	BEARING, Thrust	6
9	102236	PLATE, Center pin retainer	12
	103887	• BOLT, Hex-hd 5/16-18 x 1" lg.	12
	103404	• WASHER, Lock 5/16"	12
	103473	• BOLI, Hex-hd 3/8-16 x 1 [#] lg.	24
10	103999	• WASHER, LOCK 3/8"	24
10	101689	WELDMENT, Centering bar pivot	
	103907	• BOLI, Hex-nd 1/2-13 X 11/2 Ig. (replaces 103906)	10
	103400	• WASHER Lock 1/2"	16
	103470	• NIT Her $1/2$	16
11	110418	PIN Centering bar nivot	
	103887	 BOLT Hex-hd 5/16-18 x 3/4" la 	4
	103404	 WASHER Lock 5/16" 	4
12	110420	BAR. Centering	AR
	103997	• WASHER, Flat 1-1/4"	4
	103972	• PIN, Cotter 1/4" x 2" lg.	4
13	111225	SLIDER ASSEMBLY	8
	101950	• PAD, Teflon 3/8 x 3-1/2" lg.	8
	103701	• PAD, Teflon 3/8" x 1-1/4 x 5-1/2" lg.	16
	117148	KIT, Slider bushing replacement	8
		(Consists of:)	
	118768	• • BUSHING, 1" x 1-3/16" x 3/4" lg.	1
	118767	• • BUSHING, 1" x 1-3/16" x 1" lg.	2
	117553	• • BUSHING, 1" x 1-1/8" x 3/8" lg.	1
	101581	• • BUSHING, 1" x 1-1/8" x 1-1/4" lg.	2
14	110410	PIN, End 1-1/4"	
	103887	• BOLI, Hex-nd 5/16-18 X 3/4 Ig.	
15	103404	• WASHER, LOCK 5/16 Ig. PINL End 1 1/4" (limit owitch com)	1
15	102887	• BOLT How bd $5/16$ 18 x $2/4$ " la	1
	103007	 WASHER Lock 5/16" 	1
16	101328	BUSHING End pin $1-1/4 \times 1^{\circ}$ la	32
17	101523	BUSHING, Centering arm $1-1/4 \times 3/4$ " lg	8
18	(Ref.)	CYLINDER ASSEMBLY Lift	2
	(11011)	(For components, Refer to Figure 6-15, Page 48)	-
19	110409	PIN, Lift cylinder pivot	4
20	111137	NUT, Jam 1-1/2"-12" lg.	4
		Parts list continued on the following page.	

FIGURE 6-13. SCISSOR ARM ASSEMBLY (Continued) (31' Models)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
21	111954	LATCH ASSEMBLY, Safety bar	1
	102780	 LATCH, Safety bar 	1
	111534	KNOB, Latch	1
	103855	• BOLT, Hex-hd 1/4-20	1
	104000	WASHER, Lock 1/4"	1
22	100967	CAM, Limit switch	2
23	110413	PIN, Slider	4
	103887	• BOLT, Hex-hd 5/16-18 x 3/4" lg.	4
	103404	• WASHER, Lock 5/16"	7
24	104127	PROTECTION, Cable 72" lg. (192" total)	8
25	111135	BUMPER, Scissor arm 2-1/2" x 1-1/16" thk. (arm)	4
	105395	BUMPER, Scissor arm 2-1/2" x 1-1/2" thk. (base)	4
	111846	• SPACER, Bumper 2-1/2" dia.	12
	103936	• BOLI, Soc-hd 3/8-16 x 1" lg.	2
26	111356	SWITCH, Limit (High speed cut-out)	1
	104698	• BOLI, Machine #10-32 x 3/4" lg.	2
07	104003	NUI, Machine #10-32	2
27	1111/2		1
	103256	• CABLE, 18/2 X 306" IG.	
00	104409	CUNNEGIUR, BIACK DEEDED/LICUTA COEMPLY (reglasses 111177)	2
28	116223		
	103255	• CABLE, 18/4 X 138" IG.	
20	103056 (Dof.)	BEEPER, 7.3 - 10 VOIL LICHT Amber becase (Depleted by 191927)	1
29	(Rel.)	• LIGHT, Amber beacon (Replaced by 121837)	1
	103221		1
	103743	 FLASHER, 12 VOIL KIT Elashing light 	1
	1037/3	• • ELASHER 12 Volt	1
	121476	IGHT ASSEMBLY Elashing 12 Volt	1
	121533	• • • I ENS Amber	
	114198	• • • BIII B 12 Volt	
	114100	NOTE: Items 30 thru 32 are for later machines equipped with	
		Centering Bar Activated Lowering Valve.	
30	114043	BAB Centering 34-3/4" lg. (replaces 113491)	1
	103997	• WASHER, Flat 1-1/4"	1
	103972	• PIN. Cotter 1/4" x 2" la.	1
31	112440	WELDMENT. Centering bar pivot/lowering valve	1
_	103865	BOLT, Adjusting 5/16-18 x 2" lg.	1
	103984	• NUT, Lock 5/16-18	1
32	(Ref.)	VALVE AND VALVE BLOCK ASSEMBLY	1
		(Refer to Figure 6-16.)	
33	111846	SPACER, Bumper	8
34	115532	PIN, Cotter 1/4"	4
35	102850	HORN, 12 Volt	1
36	106977	BRACKE I, Horn mounting	
37	111356	SWITCH, LIMIT (26 ft. drive cut-out)	1
		(Standard for Europe)	
20	111050	(NOTH AMERICA OPTION)	4
38	108791	CLIP. Cord (stick-on)	
		- , ()	-



FIGURE 6-14. SCISSOR ARM ASSEMBLY (41' Models)

Index No.	Skyjack Part No.	Description	Units per Assy.
1	110363	ARM ASSEMBLY, 1st Inner	1
2	110328	ARM ASSEMBLY, 1st Outer	1
3	110377	ARM ASSEMBLY, 2nd Inner	1
4	110347	ARM ASSEMBLY, 2nd Outer	1
5	110381	ARM ASSEMBLY, 3rd Inner	1
6	110359	ARM ASSEMBLY, 3rd Outer	1
7	101564	BUSHING, Center pin 1-3/4" x 1-1/2" lg.	24
8	110408	PIN, Center 1-3/4" x 9-1/2" lg.	8
	11/840	• BEARING, I hrust	8
9	102236	PLATE, Center pin retainer	16
	103887	• BOLI, Hex-nd 5/16-18 X 1" Ig.	10
	103404	WASHER, LUCK 5/10	10
	103473	• DOLI, Π EX-IIU 3/0-10 X I IY. • W/ASHED Look 3/9"	32
10	101680	WEIDMENT Centering bar pivot	
10	103907	 BOLT Hey-hd 1/2-13 x 1-3/4" la (replaces 103907) 	16
	103468	 WASHER Flat 1/2" 	16
	103470	WASHER Lock 1/2"	16
	103471	• NUT. Hex 1/2-13	16
11	110418	PIN, Centering bar pivot	4
	103887	• BOLT, Hex-hd 5/16-18 x 3/4" lg.	4
	103404	WASHER, Lock 5/16"	4
12	110420	BAR, Centering	AR
	103997	WASHER, Flat 1-1/4"	4
	103972	• PIN, Cotter 1/4" x 2" lg.	4
13	111225	SLIDER ASSEMBLY	8
	101949	• PIN, 3/8 diameter x 5-1/2" lg.	4
	105549	• WELDMEN I, Slider	8
	101950	 PAD, letion 3/8" x 3-1/2" x 5-1/2" lg. DAD, Teflere 9/9" x 4 4/4" x 5 1/9" lg. 	8
	103701	 PAD, IEIION 3/8" X I-1/4" X 5-1/2" Ig. DIN 2/9" Diameter E 1/9" Ig. 	16
	101949	 FIN, 3/6 Diameter 5-1/2 lg. KIT Slider bushing (replaces 100200) 	4
14	110/10	PIN End $1_1//!!$	7
14	103887	• BOLT Hey-bd $5/16-18 \times 3/4"$ la	7
	103404	 WASHER Lock 5/16" 	7
15	110416	PIN End 1-1/4" (limit switch cam)	1
	103887	 BOLT. Hex-hd 5/16-18 x 3/4" lg. 	1
	103404	• WASHER, Lock 5/16"	1
16	101328	BUSHING, End pin 1-1/4" x 1" lg.	32
17	101523	BUSHING, Centering arm 1-1/4" x 3/4" lg.	8
18	(Ref.)	CYLINDER ASSEMBLY, Lift	2
		(For components, refer to Figure 6-15, Page 48)	
19	110409	PIN, Lift cylinder pivot	4
20	111137	NUT, Jam 1-1/2-12	4
21	111954	LATCH ASSEMBLY, Safety bar	
	102780	LATCH, Safety bar	1
	111534	 KNUB, LATCH ROLT Hay be 1/4 20 x 50" let 	
	103855	• DULI, HEX-HU 1/4-20 X .30 Hg.	
	104000	VVAGHEN, LUCK 1/4	
		Parts list continued on the following page.	

FIGURE 6-14. SCISSOR ARM ASSEMBLY (Continued) (41' Models)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
22 23	100967 110413 103887 103404	CAM, Limit switch PIN, Slider • BOLT, Hex-hd 5/16-18 x 3/4" lg. • WASHER, Lock 5/16"	1 4 4 4
24 25	104127 111135 105395 111846 103936	 PROTECTION, Cable 72" Ig. (192" total) BUMPER, Scissor arm 2-1/2" x 1-1/16" thk. (arm) BUMPER, Scissor arm 2-1/2" x 1-1/2" thk. (base) SPACER, Bumper 2-1/2" dia. BOLT, Soc-hd 3/8-16 x 1" lg. 	AR 12 4 4 12
26	111356 104698 104003	 SWITCH, Limit (tilt override) BOLT, Machine #10-32 x 3/4" lg. NUT, Machine #10-32 	1 2 2
27 28 29	110389 110361 111172 103256 104409	ARM ASSEMBLY, 4th Inner ARM ASSEMBLY, 4th Outer CORD ASSEMBLY, Holding valve • CABLE, 18/2 x 306" lg. • CONNECTOR, Black	1 1 1 2
30	116223 103255 103056 (Ref.) 103221 103743	 BEEPER/LIGHT ASSEMBLY (replaces 111177) CABLE, 18/4 x 138" lg. BEEPER, 7.5 - 16 Volt LIGHT, Amber beacon (Replaced by 121837) BULB, 12 Volt FLASHER, 12 Volt 	1 1 1 1 1
31	121837 103743 121476 121533 114198	 KIT, Flashing light FLASHER, 12 Volt LIGHT ASSEMBLY, Flashing 12 Volt LENS, Amber BULB, 12 Volt NOTE: Items 33 thru 35 are for later machines equipped with Centering Bar Activated Lowering Valve	1 1 1 1
32	114043 103997 103972	 BAR, Centering 34-3/4" lg. (replaces 113491) WASHER, Flat 1-1/4" PIN. Cotter 1/4" x 2" lg. 	1 1 1
33	112440 103865 103984	 WELDMENT, Centering bar pivot/lowering valve BOLT, Adjusting 5/16-18 x 2" lg. NUT, Lock 5/16-18 	1 1 1
34 35 36 37	(HeT.) 115532 102850 106977	(Refer to Figure 6-16.) PIN, Cotter 1/4 x 2-1/2" lg. HORN, 12 Volt (Option) BRACKET Horn mounting	4 1 1
38	111356	SWITCH, Limit (26 ft. drive cut-out) (Standard for Europe) (North America Option)	1
40	108791	CLIP, Cord (stick-on)	9




FIGURE 6-15. LIFT CYLINDER ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
	109953	CYLINDER ASSEMBLY. Lift	-
		(Consists of items 1 thru 12)	
1	109227	WELDMENT, Cylinder barrel	1
2	109232	WELDMENT, Cylinder rod	1
*3	109246	WIPER, Rod	1
*4	109244	• SEAL, Rod	1
*5	109247	RING, Rod wear	1
6	109225	GLAND, Front end	1
*7	109248	RING, Piston wear	2
*8	109245	O-RING, Front gland	1
9	102856	• PLUG, Soc-hd 3/8-24	1
10	102027	FITTING, Grease 1/8P	2
11	109249	RING, Retaining	4
12	109250	BEARING, Spherical	2
13	106688	BLOCK, LITT Cylinder manifold	
	103746	• BOLI, Soc-nd 5/16-18 X 3-1/2" Ig. grade 8	4
	104637	WASHER, LOCK 5/16	4
14	120/181	OPIEICE 104 diamotor	1
14	120401	(31' models with serial number 36543 and above)	1
		(41' models with serial number 41990 and above)	
	105501	OBIFICE 094 diameter	1
	100001	(31' models with serial number 36542 and below)	'
		(41' models with serial number 41989 and below)	
15	106557	VALVE. Relief	1
16	107269	VALVE, N.C. (holding)	1
17	104410	COIL, 12 Volt	1
18	(Ref.)	FITTING, Elbow 90° #6orb-#6	1
		(For hose connections, refer to Figure 6-16, Page 50)	
	112165	KIT, Seal repair	AR
		* Part of Seal Repair Kit, 112165.	
		1	





FIGURE 6-16. HYDRAULIC HOSE CONNECTIONS - Scissors

Index No.	Skyjack Part No.	Description	Units per Assy.
1	109953	CYLINDER ASSEMBLY, Lift	2
2 3	114578 110666	FITTING, Elbow 90° #6orb-#6 (replaces 103073) BLOCK, Lift manifold	4
	103746 104637	BOLT, Socket 5/16-18WASHER, Lock 5/16	8 8
45	104437 103090	PLUG, Soc-hd #6 CONDUIT, Convoluted 1-1/4" x 28" lg.	2 2
7	110592	HOSE ASSEMBLY, Lift cylinder 30 fg. HOSE ASSEMBLY, Lift manifold to main manifold (Earlier models without Centering Bar Activated Lowering Valve)	1
8	114582	FITTING, Elbow 90° #8orb-#6 (replaces 110669)	1
		NOTE: Items 9 thru 15 are for later models equipped with Centering Bar Activated Lowering Valve.	
9	114227	HOSE ASSEMBLY, Lift manifold to lowering valve manifold 149" lg.	1
10	113556 119085	VALVE ASSEMBLY, LoweringKIT, Seal repair	1 AR
11 12 13 14 15	113494 114583 113496 114218 110473	BLOCK, Lowering valve manifold FITTING, Elbow 90° #8orb-#8 (replaces 105447) SPACER, Orifice ORIFICE, .070 Diameter (replaces 105501) HOSE ASSEMBLY, Lowering valve manifold to main manifold 60" lg.	1 2 1 1 1



FIGURE 6-17. BASE, AXLES AND WHEELS

Skyjack Part No.	Description	
115818 112766 116077 111396 116078 112007 116080 112784	WELDMENT, Base (Models 88xx) WELDMENT, Base (Models 82xx) WELDMENT, Base (w/Scissor Guard option) (Models 88xx) WELDMENT, Base (w/Scissor Guard option) (Models 82xx) WELDMENT, Base (w/Outrigger option) (Models 88xx) WELDMENT, Base (w/Outrigger option) (Models 82xx) WELDMENT, Base (w/Extended Outrigger option) (Models 88xx) WELDMENT, Base (w/Extended Outrigger option) (Models 82xx)	1 1 1 1 1 1 1
116079 (Ref.)	WELDMENT, Base w/Scissor Guard & Outrigger option) (Models 88xx) ENGINE ROLL-OUT TRAY ASSEMBLY (For components, refer to Figure 6-43, Page 108 or Figure 6-44, Page 110)	1
(Ref.)	DISC BRAKE ASSEMBLY (For components, refer to Figure 6-21, Page 65)	1
(Ref.)	HYDRAULIC/ELECTRIC CABINET ASSEMBLY	1
(Ref.)	FUEL TANK/HYDRAULIC OIL TANK CABINET ASSY. (For components, refer to Figure 6-27, Page 82 or Figure 6-28, Page 83)	1
103473 103999 103999 103978 110045 110046 103473 103472 103999	 BOLT, Hex-hd 3/8-16 x 1" lg. WASHER, Flat 3/8" WASHER, Lock 3/8" NUT, Hex 3/8-16 LADDER, 2 step (31' Models) LADDER, 3 step (41' Models) BOLT, Hex-hd 3/8-16 x 1" lg. WASHER, Flat 3/8 WASHER, Lock 3/8 	8 16 8 2 2 8 16 8
103978 (Ref.) (Ref.)	 NUT, Hex 3/8-16 AXLE ASSEMBLY, Front idle (2wd) (For components, refer to Figure 6-22, Page 66) AXLE ASSEMBLY, Front drive (4wd) (For components, refer to Figure 6-24, Page 70) 	8 1 1
103907 106665 103470 103471 (Ref.) 103907 103470	 BOLT, Flat-hd 1/2-13 x 1-3/4 lg. BOLT, Flat-hd 1/2-13 x 1-3/4 lg. WASHER, Flat 1/2 NUT, Hex 1/2-13 AXLE ASSEMBLY, Rear drive (For components, refer to Figure 6-26, Page 80) BOLT, Flat-hd 1/2-13 x 1-3/4 lg. WASHER, Flat 1/2 	8 8 8 1 8 8
103471 (Ref.) 103907 103470 103468	 NUT, Hex 1/2-13 CENTER DRIVE AND DRIVE SHAFT (For components, refer to Figure 6-25, Page 74) BOLT, Hex-hd 1/2-13 x 1-1/2" lg. WASHER, Lock 1/2 WASHER, Flat 1/2" (replaces 103478) 	8 1 4 4 4
	Parts list continued on the following page.	
	Skyjack Part No. 115818 112766 116077 11396 116078 112007 116080 112784 116079 (Ref.) (Ref.) (Ref.) 103473 103473 103473 103473 103472 103999 103978 (Ref.) (Ref.) (Ref.) (03977 103907 103907 103907 103907 103470 103470 103470 103470 103470 103470 103470 103470 103470 103470 103470 103470 103470 103470 103470 103470 103470 103470 103468	syntex Decomposition 115818 WELDMENT, Base (Models 88xx) 112766 WELDMENT, Base (Wodels 82xx) 111077 WELDMENT, Base (Woltrigger option)(Models 88xx) 112007 WELDMENT, Base (WOutrigger option)(Models 88xx) 112007 WELDMENT, Base (WCutrigger option)(Models 88xx) 112007 WELDMENT, Base (WExtended Outrigger option)(Models 88xx) 112074 WELDMENT, Base (WExtended Outrigger option)(Models 88xx) 112784 WELDMENT, Base (WExtended Outrigger option)(Models 88xx) (Ref.) ENGINE ROLL-OUT TRAY ASSEMBLY (For components, refer to Figure 6-43, Page 108 or Figure 642, Page 110) (For components, refer to Figure 6-32, Page 82) (Fer. (For components, refer to Figure 6-32, Page 82) (Fer. components, refer to Figure 6-32, Page 82) (Fer. components, refer to Figure 6-32, Page 82) (For components, refer to Figure 6-32, Page 82) (For components, refer to Figure 6-32, Page 82) (Fer. TANK/HYDRAULIC OIL TANK CABINET ASSY. (For components, refer to Figure 6-27, Page 82 or Figure 6-28, Page 83) 103472 WASHER, Lat 3/8 103978 NUT, Hex 3/8-16 x 1* Ig. 103979 WASHER, Flat 3/8 <t< td=""></t<>

FIGURE 6-17. BASE AXLES AND WHEELS (Continued)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
10	111612L	WHEEL/TIRE ASSEMBLY (#6) (Model 88XX)	2
	111613L	WHEEL/TIRE ASSEMBLY (#6F) (Model 88XXF)	2
	112654	WHEEL, 8.25 × 16.5 × 8 Bolt	AR
	103344L	$(30 \times 10 \times 10.5 \text{ 6 ply foam filled)}$ (LH side)	
	103343L	$(30 \times 10 \times 16.5 \text{ 6 ply air filled})$ (LH side)	2
	103149 112605L	WHEEL, 9.5 x 16.5 - 8 Bolt WHEEL/TIRE ASSEMBLY (#7) (optional)	AR 2
	112738L	(31 x 15.5 x 15 - 8 ply air filled) (LH side) WHEEL/TIRE ASSEMBLY (#7F) (optional)	2
	111518	(31 x 15.5 x 15 8 pip loam filled) (LH side) (H side) (H side) (H side)	AR
	104073L	(31 x 13.5 x 15 foam filled) (LH side)	2
11	104077 111612R	• WHEEL WHEEL/TIRE ASSEMBLY (#6), (Model 88XX)	AR 2
	111613R	(30 x 10 x 16.5 6 ply air filled) (RH side) WHEEL/TIRE ASSEMBLY (#6F) (Model 88XXF)	2
	112654	 (30 x 10 x 16.5 6 ply foam filled) (RH side) WHEEL, 8.25 x 16.5 - 8 Bolt WHEEL / TIPE ASSEMBLY (#6E) (Model 82XYE) 	AR
	103343B	(30 x 10 x 16.5 6 ply foam filled) (RH side) WHEEL/TIBE ASSEMBLY (#6) (Model 82XX)	2
	1031/0	(30 x 10 x 16.5 6 ply air filled) (RH side)	
	112605R	WHEEL/TIRE ASSEMBLY (#7) (optional)	2
	112738R	WHEEL/TIRE ASSEMBLY (#7F) (optional) (31 x 15 5 x 15 8 ply foam filled) (BH side)	2
	111518 104073B	WHEEL, 12 x 15 - 8 Bolt WHEEL/TIRE ASSEMBLY (#8E) (optional)	AR
	10407311	(31 x 13.5 x 15 foam filled) (RH side)	
12	116801	NUT, Wheel 5/8-18 (For rear drive axle) (replaces 103315)	
13	110428	PLATE, Limit switch mounting	
	110429 105621	 PLATE, LIMIT locking (top) BOLT, Machines 10-32 x 1" lg. 	2
14	110583 (Ref.)	BOLT, Flat-hd 1/4-20 5/8" Ig. LEG, Outrigger (Machines with Outrigger Option)	2 4
		(For components, refer to Figure 6-53A, Page 132, Figure 6-53B, Page 134, or Figure 6-54, Page 135)	
15	101630	HOOK, Propane tank strap (Machines with Dual Fuel Option)	AR
16	103020	STRAP, Propane tank (set of 2) (Machines with Dual Fuel Option)	AR
17	110760	WELDMENT, Propane tank mount RH (Machines with Dual Fuel Option)	1
18	110759	WELDMENT, Propane tank storage LH (Optional for machines with Dual Fuel Option)	1
19	(Ref.)	ENGINE AND RELATED PARTS (Refer to Figures 6-47, Page 114, Figure 6-48, Page 118 or	1
20	103198	Figure 6-50, Page 124) BOLT, Wheel 5/8-18 (For front idle axle)	16
	116801	NUT, Wheel 5/8-18 (For front drive axle)	16

SJ-800 Series Engine Powered 112114AE

FIGURE 6-18. HYDRAULIC HOSE CONNECTIONS - Base (31' Models with Serial Number 36209 and Below) (41' Models with Serial Number 40548 and Below)



SJ-800 Series Engine Powered 112114AE

FIGURE 6-18. HYDRAULIC HOSE CONNECTIONS - Base (31' Models with Serial Number 36209 and Below) (41' Models with Serial Number 40548 and Below)

FIGURE 6-18. HYDRAULIC HOSE CONNECTIONS - Base (31' Models with Serial Number 36209 and Below) (41' Models with Serial Number 40548 and Below)

1 (Ref.) COVER, Hydraulic tank (Refer to Figures 6-30.) 1 2 (Ref.) CVLINDER ASSEMBLY, Disc brake (For components, refer to Figure 6-21, Page 65) 1 3 102659 FITTING, Connector #80rb-#8 1 4 110474 HOSE ASSEMBLY, Brake 32° Ig. 1 5 103320 CLAMP, Worm 1" AR 6 103033 HOSE, Suction 1* ID (single inlet pump) AR 7 112381 KIT, U-Boit 4 8 112260 PIPE, 1*OD Return (main manifold to tank) 1 9 111139 PIPE, 1*OD Return (main manifold to tank) 1 10 112768 TUBE, Pump suction 1*0D (single inlet pump) 1 11 112021 FITTING, Connector #16orb-#16 1 11 PUMP, Dual Intel (A88,854) 1 1 (Machine wi/Kubota dissel engine and Ford gas engine) 1 1 13 103071 FITTING, Connector #10orb-#6 1 14 110469 HOSE ASSEMBLY, Karge pump 206* Ig. 1 16 110	Index No.	Skyjack Part No.	Description	Units per Assv.
(Ref.) (Refer to Figures 6-30.) 2 (Ref.) CYLINDER ASSEMBLY, Disc brake 1 (For components, refer to Figure 6-21, Page 65) 1 3 102659 FITTING, Connector #8orb.#8 1 4 110474 HOSE ASSEMBLY, Brake 32° Ig. 1 5 103033 HOSE, Suction 1" ID (single inlet pump) AR 6 103033 HOSE, Suction 1" ID (single inlet pump) AR 7 112361 KIT, U-Bolt 4 8 112260 PIEE, 1"OD Suction (tank to pump) 1 10 112768 TUBE, Pump suction 1"OD (single inlet pump) 1 11 112201 FITTING, Connector #10orb.#16 1 11 114201 PUMP, Dual Inlet (.486/.854) 1 110460 PUMP, Dual Inlet (.486/.854) 1 1 110460 FITTING, Connector #10orb.#6 1 1 11 Indexine w/Kubota gas engine) 1 1 13 103307 FITTING, Connector #10orb.#8 1 14 10468 <td>1</td> <td>(Ref)</td> <td>COVER. Hydraulic tank</td> <td>1</td>	1	(Ref)	COVER. Hydraulic tank	1
2 (Ref.) CVLINDER ASSEMBLY, Disc brake (For components, refer to Figure 6-21, Page 65) 1 3 102659 FITTING, Connector #8orb-#8 1 4 110474 HOSE ASSEMBLY, Brake 32" Ig. 1 5 103320 CLAMP, Worm 1" AR 6 103330 HOSE, Suction 1" ID (single inlet pump) AR 7 112881 KIT, U-Bolt 4 8 112260 PIPE, 1"OD Return (main manifold to tank) 1 9 111139 PIPE, 1"OD Suction (tank to pump) 1 10 112768 TUBE, Pump suction 1"OD (single inlet pump) 1 11 112021 FITTING, Connector #160rb-#16 1 11 PUMP, Dual Inlet (.366/.671) 1 1 11 (Machine w/Kubota diseal engine and Ford gas engine) 1 1 11 HOSE ASSEMBLY, Small pump 206" Ig. 1 1 13 103307 FITTING, Connector #100rb-#6 1 1 14 110469 HOSE ASSEMBLY, Main 1 (Refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 16 103471 FITTING, Reducer #100orb			(Befer to Figures 6-30.)	
(100) (For components, refer to Figure 6-21, Page 65) 3 102659 FITTING, Connector #8orb-#8 1 5 103320 CLAMP, Worm 1" AR 6 103033 HOSE, SUCtion 1" ID (single inlet pump) AR 7 112381 KT, U-Bolt 4 8 112260 PIPE, 1"OD Return (main manifold to tank) 1 9 111139 PIPE, 1"OD Return (main to pump) 1 10 112768 TUBE, Pump suction 1"OD (single inlet pump) 1 11 112021 FITTING, Connector #16orb-#16 1 11 112021 PUMP, Dual Inlet (.486/.671) 1 (Machine w/Kubota gas engine) 1 1 110460 PUMP, Dual Inlet (.488/.854) 1 110460 FITTING, Connector #10orb-#8 1 111 112021 FITTING, Connector #10orb-#8 1 110448 HOSE ASSEMBLY, Main 1 1 110449 HOSE ASSEMBLY, Main 1 1 110547 FITTING, Reducer #3-#6 2	2	(Ref.)	CYLINDER ASSEMBLY Disc brake	1
3 102659 FITTING, Connector #8orb.#8 1 4 110474 HOSE ASSEMBLY, Brake 32" Ig. 1 5 103303 HOSE, Suction 1" ID (single inlet pump) AR 6 103033 HOSE, Suction 1" ID (single inlet pump) AR 7 112381 KIT, U-Bolt 4 8 112260 PIPE, 1"OD Return (main manifold to tank) 1 9 111139 PIPE, 1"OD Return (main manifold to tank) 1 11 11220F FITTING, Connector #160rb.#16 1 11 11220F FITTING, Connector #100rb.#16 1 110460 PUMP, Dual Inlet (.366/.671) 1 1 (Machine w/Kubota diseal engine and Ford gas engine) 1 1 1 13 103307 FITTING, Connector #100rb.#8 1 1 14 110469 HOSE ASSEMBLY, Kmall pump 206" Ig. 1 1 16 10448 HOSE ASSEMBLY, Main 1 1 17 (Ref.) MANIFOLD ASSEMBLY, Main 1 1	_	(1011)	(For components, refer to Figure 6-21, Page 65)	
1 100474 HOSE ASSEMBLY, Brake 32" ig. 1 5 103320 CLAMP, Worm 1" AR 6 103031 HOSE, Suction 1" ID (single inlet pump) AR 7 112381 KIT, U-Bolt 4 8 112260 PIPE, 1"OD Return (main manifold to tank) 1 9 11139 PIPE, 1"OD OD (single inlet pump) 1 10 112768 TUBE, Pump suction 1"OD (single inlet pump) 1 11 112021 FUMR, Dual Inlet (366/671) 1 11 Machine w/Kubota gas engine) 1 1 110460 PUMR, Dual Inlet (368/671) 1 1 110460 FIGTING, Connector #10orb-#6 1 1 11 10469 HOSE ASSEMBLY, Small pump 206" Ig. 1 15 103071 FITTING, Connector #10orb-#8 1 16 110468 HOSE ASSEMBLY, Main 1 (Refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 1 1 18 109311 MOTOR, Hydraulic 2 1 104436 FITTING, Reducer #0.070-#8 2 2	3	102659	FITTING Connector #8orb-#8	1
11011 1101000000000000000000000000000000000	4	110474	HOSE ASSEMBLY Brake 32" Ig	1
100000 UDRE, Suction 1" ID (single inlet pump) AR 7 112381 KIT, U-Bolt 4 8 112260 PIPE, 1"OD Return (main manifold to tank) 1 9 111139 PIPE, 1"OD Suction (tank to pump) 1 10 112768 TUBE, Pump suction 1"OD (single inlet pump) 1 11 112021 FITTING, Connector #16orb-#16 1 12 114201 PUMP, Dual Inlet (.366/.671) 1 11 (Machine w/Kubota gas engine) 1 1 110460 PUMP, Dual Inlet (.488/.854) 1 1 110460 HOSE ASSEMBLY, Main pump 206" lg. 1 1 15 103071 FITTING, Connector #10orb-#8 1 1 16 110468 HOSE ASSEMBLY, Main 1 1 17 (Ref.) MANIFOLD ASSEMBLY, Main 1 1 18 103311 MOTOR, Hydraulic 1 1 19 104436 FITTING, Reducer #8-#8 2 2 110434 10010 CONTROL VALVE ASSEMBLY </td <td>5</td> <td>103320</td> <td>CLAMP Worm 1"</td> <td>AR</td>	5	103320	CLAMP Worm 1"	AR
10000 1000000000000000000000000000000000000	6	103033	HOSE Suction 1" ID (single inlet pump)	AR
8 112260 PIPE, 1"OD Return (main manifold to tank) 1 9 111139 PIPE, 1"OD Return (main manifold to tank) 1 10 112768 TUBE, Pump suction 1"OD (single inlet pump) 1 11 112021 FITTING, Connector #16orb-#16 1 12 114201 PUMP, Dual inlet (.486/.671) 1 11 (Machine w/Kubota gas engine) 1 110460 PUMP, Dual inlet (.488/.854) 1 (Machine w/Kubota diesel engine and Ford gas engine) 1 13 103307 FITTING, Connector #10orb-#6 1 14 110469 HOSE ASSEMBLY, Small pump 206" lg. 1 15 1033071 FITTING, Connector #10orb-#8 1 16 110468 HOSE ASSEMBLY, Main 1 (Refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 10 MOTOR, Hydraulic 1 (Refer to Figure 6-25, Page 74) 1 1 1 10 10436 FITTING, Reducer #100orb-#8orb 2 2 20 110554 FITTING, Reducer #8-#8 2 2 21 10434 MOTION CO	7	112381	KIT U-Bolt	4
9 111139 PIPE, 1*0D Suction (tark to pump) 1 10 112768 TUBE, Pump suction 1*0D (single inlet pump) 1 11 112021 FITTING, Connector #16orb-#16 1 12 114201 PUMP, Dual Inlet (.366/.671) 1 (Machine w/Kubota gas engine) 1 1 110460 PUMP, Dual Inlet (.488/.854) 1 (Machine w/Kubota diesel engine and Ford gas engine) 1 13 103307 FITTING, Connector #10orb-#6 1 14 110469 HOSE ASSEMBLY, Small pump 206" Ig. 1 15 103071 FITTING, Connector #10orb-#8 1 16 110468 HOSE ASSEMBLY, Main 1 (Refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 1 1 18 109311 MOTOR, Hydraulic 1 1 (Refer to Figure 6-25, Page 74) 1 1 1 10544 FITTING, Reducer #8-#6 2 2 1 21 10436 FITTING, Reducer #8-#6 2 2 2 23 105447 FITTING, Connector #8orb-#8 2	8	112260	PIPE 1"OD Beturn (main manifold to tank)	1
1112768 TUBE, Pump suction "OD (single inlet pump) 1 11 112021 FITTING, Connector #16orb-#16 1 12 114201 PUMP, Dual Inlet (.366/.671) 1 11 112021 FITTING, Connector #16orb-#16 1 11 112021 FITTING, Connector #16orb-#16 1 110460 PUMP, Dual inlet (.488/.854) 1 110460 PUMP, Connector #10orb-#6 1 14 110469 HOSE ASSEMBLY, Small pump 206" lg. 1 15 103071 FITTING, Connector #10orb-#8 1 16 110468 HOSE ASSEMBLY, Small pump 206" lg. 1 17 (Ref.) MANIFOLD ASSEMBLY, Main 1 (Refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 1 1 18 109311 MOTOR, Hydraulic 1 10554 FITTING, Reducer #100orb-#8orb 2 2 21 110438 FITTING, Reducer #8-#6 2 21 104436 FITTING, Reducer #8-#6 2 22 110554 FITTING, Reducer #8-#6 2 23 105447	q	111139	PIPE 1"OD Suction (tank to nump)	1
11 112021 FITTING, Connector #16orb-#16 1 12 114201 PUMP, Dual Inlet (.366/.671) 1 11 010400 PUMP, Dual Inlet (.366/.671) 1 11 10460 PUMP, Dual Inlet (.488/.584) 1 11 (Machine w/Kubota diesel engine and Ford gas engine) 1 13 103307 FITTING, Connector #10orb-#6 1 14 110469 HOSE ASSEMBLY, Small pump 206" Ig. 1 15 103071 FITTING, Connector #10orb-#8 1 16 110468 HOSE ASSEMBLY, Large pump 209" Ig. 1 17 (Ref.) MANIFOLD ASSEMBLY, Main (Refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 1 18 109311 MOTOR, Hydraulic (Refer to Figure 6-25, Page 74) 1 19 104436 FITTING, Reducer #8-#6 2 20 110554 FITTING, Reducer #8-#6 2 21 110434 MOTION CONTROL VALVE ASSEMBLY 1 21 10434 MOTION CONTROL VALVE ASSEMBLY 1 21 10434 HOSE ASSEMBLY, M.C.V. drain 72" Ig. 1 26	10	112768	TUBE Pump suction 1"OD (single inlet nump)	1
112 114201 PUMR, Dual Inlet (.366/.671) 1 112 114201 PUMR, Dual Inlet (.366/.671) 1 110460 PUMR, Dual Inlet (.366/.671) 1 111 (Machine w/Kubota gas engine) 1 111 (Machine w/Kubota diesel engine and Ford gas engine) 1 111 HOSE ASSEMBLY, Small pump 206" lg. 1 111 HOSE ASSEMBLY, Large pump 209" lg. 1 111 (Refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 1 111 (Refer to Figure 6-25, Page 74) 1	11	112021	FITTING Connector #16orb-#16	1
11 11 10 10 10 11 (Machine w/Kubota gas engine) 1 1 11 10460 PUMP, Dual inlet (.488/.854) 1 13 103307 FITTING, Connector #10orb-#6 1 14 110469 HOSE ASSEMBLY, Small pump 206" lg. 1 15 103071 FITTING, Connector #10orb-#8 1 16 110468 HOSE ASSEMBLY, Large pump 209" lg. 1 17 (Ref.) MANIFOLD ASSEMBLY, Main 1 18 109311 MOTOR, Hydraulic 1 (Refer to Figure 6-25, Page 74) 1 1 19 104436 FITTING, Reducer #100orb-#8orb 2 20 110554 FITTING, Reducer #8-#6 2 21 110434 MOTION CONTROL VALVE ASSEMBLY 1 23 105447 FITTING, Elbow 90° #8orb-#8 2 24 102659 FITTING, Elbow 90° #8orb-#8 2 25 110434 MOTION CONTROL VALVE ASSEMBLY 1 26 102665 FITTING, Elbow 90° #8orb-#8 2 27 109	12	114201	PLIMP Dual Inlet (366/ 671)	1
110460 PUMP, Dual inlet (.488/.854) 1 110460 PUMP, Dual inlet (.488/.854) 1 13 103307 FITTING, Connector #10orb-#6 1 14 110469 HOSE ASSEMBLY, Small pump 206" Ig. 1 15 103071 FITTING, Connector #10orb-#8 1 16 110468 HOSE ASSEMBLY, Small pump 209" Ig. 1 17 (Ref.) MANIFOLD ASSEMBLY, Main 1 18 109311 MOTOR, Hydraulic 1 (Refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 1 1 19 104436 FITTING, Reducer #1000rb-#8orb 2 20 110554 FITTING, Reducer #00orb-#8orb 2 21 110498 FITTING, Reducer #8-#6 2 22 110434 MOTION CONTROL VALVE ASSEMBLY 1 23 105447 FITTING, Connector #8orb-#8 2 24 102659 FITTING, Connector #8orb-#8 2 25 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" Ig. 2 26 102665 FITTING, Elbow 90° #8orb-#6 1 <t< td=""><td></td><td>111201</td><td>(Machine w/Kubota gas engine)</td><td></td></t<>		111201	(Machine w/Kubota gas engine)	
10400 10400 10400 1 13 103307 FITTING, Connector #10orb-#6 1 14 110469 HOSE ASSEMBLY, Small pump 206" Ig. 1 15 103071 FITTING, Connector #10orb-#6 1 16 110468 HOSE ASSEMBLY, Large pump 209" Ig. 1 17 (Ref.) MANIFOLD ASSEMBLY, Main 1 18 109311 MOTOR, Hydraulic 1 19 104436 FITTING, Reducer #100orb-#8orb 2 20 110554 FITTING, Reducer #00orb-#8orb 2 21 110498 FITTING, Reducer #8-#8 2 21 110438 FITTING, Connector #8orb-#8 2 22 110434 MOTION CONTROL VALVE ASSEMBLY 1 23 105447 FITTING, Elbow 90° #8orb-#8 2 24 102659 FITTING, Elbow 90° #8orb-#8 2 25 110473 HOSE ASSEMBLY, M.C.V. drain 72" Ig. 1 28 121854 HOSE ASSEMBLY, M.C.V. to motor 18" Ig. 1 29 121853 HOSE ASSEMBLY, M.C.V. to motor 23" Ig. 1 <td></td> <td>110460</td> <td>PLIMP Dual inlet (488/ 854)</td> <td>1</td>		110460	PLIMP Dual inlet (488/ 854)	1
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17 (Refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 18 109311 MOTOR, Hydraulic (Refer to Figure 6-25, Page 74) 19 104436 FITTING, Reducer #100orb-#8orb 2 20 110554 FITTING, Reducer #8-#8 2 21 110498 FITTING, Reducer #8-#6 2 22 110434 MOTION CONTROL VALVE ASSEMBLY 1 23 105447 FITTING, Elbow 90° #8orb-#8 2 24 102659 FITTING, Connector #8orb-#8 2 25 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" lg. 2 26 102665 FITTING, Elbow 90° #8orb-#6 1 27 109412 HOSE ASSEMBLY, M.C.V. drain 72" lg. 1 28 121854 HOSE ASSEMBLY, M.C.V. to motor 18" lg. 1 29 121853 HOSE ASSEMBLY, M.C.V. to motor 23" lg. 1 30 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" lg. 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1	17	(Rof)	MANIEOLD ASSEMBLY Main	1
18 109311 MOTOR, Hydraulic (Refer to Figure 6-25, Page 74) 1 19 104436 FITTING, Reducer #100orb-#8orb 2 20 110554 FITTING, Tee #8orb-#8-#8 2 21 110498 FITTING, Reducer #8-#6 2 22 110434 MOTION CONTROL VALVE ASSEMBLY 1 23 105447 FITTING, Elbow 90° #8orb-#8 2 24 102659 FITTING, Connector #8orb-#8 2 25 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" Ig. 2 26 102665 FITTING, Elbow 90° #8orb-#6 1 27 109412 HOSE ASSEMBLY, M.C.V. drain 72" Ig. 1 28 121854 HOSE ASSEMBLY, M.C.V. to motor 18" Ig. 1 29 121853 HOSE ASSEMBLY, M.C.V. to motor 23" Ig. 1 30 110566 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1		(1101.)	(Refer to Figure 6-38, Page 98 or Figure 6-39, Page 100)	
10 1005011 Interforming 1 (Refer to Figure 6-25, Page 74) 1 1 19 104436 FITTING, Reducer #100orb-#8orb 2 20 110554 FITTING, Tee #8orb-#8-#8 2 21 110498 FITTING, Reducer #8-#6 2 22 110434 MOTION CONTROL VALVE ASSEMBLY 1 23 105447 FITTING, Elbow 90° #8orb-#8 2 24 102659 FITTING, Connector #8orb-#8 2 25 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" lg. 2 26 102665 FITTING, Elbow 90° #8orb-#6 1 27 109412 HOSE ASSEMBLY, M.C.V. drain 72" lg. 1 28 121854 HOSE ASSEMBLY, M.C.V. to motor 18" lg. 1 29 121853 HOSE ASSEMBLY, Motor to cushion cylinder 56" lg. 1 30 110566 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" lg. <t< td=""><td>18</td><td>100311</td><td>MOTOR Hydraulic</td><td>1</td></t<>	18	100311	MOTOR Hydraulic	1
19 104436 FITTING, Reducer #100orb-#8orb 2 20 110554 FITTING, Tee #8orb-#8-#8 2 21 110498 FITTING, Reducer #8-#6 2 22 110434 MOTION CONTROL VALVE ASSEMBLY 1 23 105447 FITTING, Elbow 90° #8orb-#8 2 24 102659 FITTING, Connector #8orb-#8 2 25 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" lg. 2 26 102665 FITTING, Elbow 90° #8orb-#6 1 27 109412 HOSE ASSEMBLY, M.C.V. drain 72" lg. 1 28 121854 HOSE ASSEMBLY, M.C.V. to motor 18" lg. 1 29 121853 HOSE ASSEMBLY, M.C.V. to motor 23" lg. 1 30 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" lg. 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" lg. 1 1	10	109311	(Pofor to Figure 6.25, Page 74)	
19 104430 FITTING, Reducer # 100010# 4010 2 20 110554 FITTING, Tee #8orb-#8-#8 2 21 110498 FITTING, Reducer #8-#6 2 22 110434 MOTION CONTROL VALVE ASSEMBLY 1 23 105447 FITTING, Elbow 90° #8orb-#8 2 24 102659 FITTING, Connector #8orb-#8 2 25 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" Ig. 2 26 102665 FITTING, Elbow 90° #8orb-#6 1 27 109412 HOSE ASSEMBLY, M.C.V. drain 72" Ig. 1 28 121854 HOSE ASSEMBLY, M.C.V. to motor 18" Ig. 1 29 121853 HOSE ASSEMBLY, M.C.V. to motor 23" Ig. 1 30 110566 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1	10	104426	EITTING Poducor #100orb #8orb	2
20 110334 FITTING, 166 #3010-#3-86 2 21 110498 FITTING, Reducer #8-#6 2 22 110434 MOTION CONTROL VALVE ASSEMBLY 1 23 105447 FITTING, Elbow 90° #8orb-#8 2 24 102659 FITTING, Connector #8orb-#8 2 25 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" Ig. 2 26 102665 FITTING, Elbow 90° #8orb-#6 1 27 109412 HOSE ASSEMBLY, M.C.V. drain 72" Ig. 1 28 121854 HOSE ASSEMBLY, M.C.V. to motor 18" Ig. 1 29 121853 HOSE ASSEMBLY, Motor to cushion cylinder 56" Ig. 1 30 110566 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1	20	110554	FITTING, Reducer # 100010-#0010	2
21 110436 HTTRING, Reducer #3-#6 2 22 110434 MOTION CONTROL VALVE ASSEMBLY 1 23 105447 FITTING, Elbow 90° #8orb-#8 2 24 102659 FITTING, Connector #8orb-#8 2 25 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60° lg. 2 26 102665 FITTING, Elbow 90° #8orb-#6 1 27 109412 HOSE ASSEMBLY, M.C.V. drain 72° lg. 1 28 121854 HOSE ASSEMBLY, M.C.V. to motor 18° lg. 1 29 121853 HOSE ASSEMBLY, M.C.V. to motor 23° lg. 1 30 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56° lg. 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2° lg. 1 1	20	110354	FITTING, lee #0010-#0-#0	2
22 110434 Mi0110N CONTROL VALVE ASSEMBER 1 23 105447 FITTING, Elbow 90° #8orb-#8 2 24 102659 FITTING, Connector #8orb-#8 2 25 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" lg. 2 26 102665 FITTING, Elbow 90° #8orb-#6 1 27 109412 HOSE ASSEMBLY, M.C.V. drain 72" lg. 1 28 121854 HOSE ASSEMBLY, M.C.V. to motor 18" lg. 1 29 121853 HOSE ASSEMBLY, M.C.V. to motor 23" lg. 1 30 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" lg. 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" lg. 1 1	21	110430		1
23 103447 FITTING, Elbow 90 # 8010-#8 2 24 102659 FITTING, Connector #8orb-#8 2 25 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" Ig. 2 26 102665 FITTING, Elbow 90° #8orb-#6 1 27 109412 HOSE ASSEMBLY, M.C.V. drain 72" Ig. 1 28 121854 HOSE ASSEMBLY, M.C.V. to motor 18" Ig. 1 29 121853 HOSE ASSEMBLY, M.C.V. to motor 23" Ig. 1 30 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" Ig. 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" Ig. 1	22	105447	EITTING Elbow 00° #8orb #8	
24 102039 1111100, Connector #0010-#0 2 25 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" lg. 2 26 102665 FITTING, Elbow 90° #8orb-#6 1 27 109412 HOSE ASSEMBLY, M.C.V. drain 72" lg. 1 28 121854 HOSE ASSEMBLY, M.C.V. to motor 18" lg. 1 29 121853 HOSE ASSEMBLY, M.C.V. to motor 23" lg. 1 30 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" lg. 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" lg. 1 1	20	102650	FITTING, EDUW 90 #0010-#0 FITTING Connector #8orb #8	2
26 102665 FITTING, Elbow 90° #8orb-#6 1 27 109412 HOSE ASSEMBLY, M.C.V. drain 72" lg. 1 28 121854 HOSE ASSEMBLY, M.C.V. to motor 18" lg. 1 29 121853 HOSE ASSEMBLY, M.C.V. to motor 23" lg. 1 30 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" lg. 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" lg. 1	24	110/73	HOSE ASSEMBLY Main manifold to M C V 60" la	2
20 102003 11111100, Elbow 30 # 8010 # 0 1 27 109412 HOSE ASSEMBLY, M.C.V. drain 72" lg. 1 28 121854 HOSE ASSEMBLY, M.C.V. to motor 18" lg. 1 29 121853 HOSE ASSEMBLY, M.C.V. to motor 23" lg. 1 30 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" lg. 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" lg. 1	20	102665	FITTING Elbow 90° #80rb #6	1
271034121103E ASSEMBLI, M.C.V. drain 72 lg.128121854HOSE ASSEMBLY, M.C.V. to motor 18" lg.129121853HOSE ASSEMBLY, M.C.V. to motor 23" lg.130110566HOSE ASSEMBLY, Motor to cushion cylinder 56" lg.131102522HOSE ASSEMBLY, Free-wheeling valve to cushion1cylinder 24-1/2" lg.1	20	102005	HOSE ASSEMBLY M C V drain 72" la	1
20 121834 HOSE ASSEMBLY, M.C.V. to motor 18 lg. 1 29 121853 HOSE ASSEMBLY, M.C.V. to motor 23" lg. 1 30 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" lg. 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" lg. 1	21	103412	HOSE ASSEMBLY, W.C.V. drain 72° lg.	1
121033 HOSE ASSEMBLY, M.C.V. to motor 23 lg. 1 30 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" lg. 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" lg. 1	20	121004	HOSE ASSEMBLY, M.C.V. to Histor 22" la	1
30 110366 HOSE ASSEMBLY, Motor to cushion cylinder 56 lg. 1 31 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" lg. 1	29	110566	HOSE ASSEMBLY, MI.C.V. to Hiotor 25 ly.	1
cylinder 24-1/2" lg.	21	100500	HOSE ASSEMBLY, MOIOR to cushion cylinder 50 rg.	1
	51	102522	avlinder 24.1/2" la	
			$cylinder 24-1/2^{-1} g.$	

Index No.	Skyjack Part No.	Description	Units per Assy.
32	104660	FITTING, Tee #6orb-#6-#6	1
33	103324	FITTING, Elbow 90° #4P-#6	2
34	(Ref.)	FREE-WHEELING VALVE ASSEMBLY	1
		(Consists of:)	
	103615	BLOCK, Valve	1
	112218	• VALVE, N.O.	1
	103613	COIL, 12 Volt	1
35	113343	ORIFICE, .104" Diameter	1
36	103245	FITTING, Iee #4P-#4P-#4P	1
37	106554	FITTING, Reducer #4P-#60rb	1
38	(Ref.)	QUICK BRAKE MANIFULD ASSEMBLY	1
30	107752	CYLINDER Cushion	1
40	(Ref)	CYLINDER ASSEMBLY Steer	1
-0	(101.)	(Befer to Figure 6-23, Page 68)	
41	103073	FITTING Flbow 90° #6orb-#6	1
42	107742	FITTING, Elbow 45 #60rb-#6	1
43	110477	HOSE ASSEMBLY. Steer 126" lg.	1
44	109418	HOSE ASSEMBLY, Steer 140" lg.	1
45	113348	FITTING, Elbow 90° #6orb-#4	1
46	113352	HOSE ASSEMBLY, Motor 56" lg.	1
47	104487	HOSE ASSEMBLY, Motor to free-wheeling	1
		valve 32" lg.	
48	110475	HOSE ASSEMBLY, Quick brake manifold	1
		to tank 122" lg.	
		NOTE: Items 49 thru 54 are replacement parts for any model with single inlet pump.	
49	114322	TUBE Pump suction	1
50	114327	HOSE, Suction 1-1/4" ID	1
00	102918	HOSE. Clear spacer	1
51	114328	FITTING, Connector #16orb-#20	1
52	114325	FITTING, Pump	1
53	114327	HOSE, Suction 1-1/4"-ID x 5-1/2" lg.	1
54	114326	CLAMP, Hose 1-1/4"	4

FIGURE 6-18. HYDRAULIC HOSE CONNECTIONS - Base (31' Models with Serial Numbers Including 36210 To 36760) (41' Models with Serial Numbers Including 40549 To 41563)



FIGURE 6-18. HYDRAULIC HOSE CONNECTIONS - Base (31' Models with Serial Numbers Including 36210 To 36760) (41' Models with Serial Numbers Including 40549 To 41563)

Skyjack Part No.

(Ref.)

(Ref.)

(Ref.)

Index No.

FIGURE 6-18. HYDRAULIC HOSE CONNECTIONS - Base (31' Models with Serial Numbers Including 36210 To 36760)

(41' Models with Serial Numbers Including 40549 To 41563)

Index No.	Skyjack Part No.	Description	Units per Assy.
1	(Ref.)	COVER, Hydraulic tank	1
		(Refer to Figures 6-29, Page 84 or Figure 6-30, Page 85)	
2	(Ref.)	CYLINDER ASSEMBLY, Disc brake	1
		(For components, refer to Figure 6-21, Page 65)	
3	102659	FITTING, Connector #8orb-#8	2
4	114388	HOSE ASSEMBLY, Brake 32" lg.	1
5	103320	CLAMP, Worm 1"	AR
6	120059	HOSE, Suction 1" ID	1
7	112381	KIT, U-Bolt	5
8	112260	PIPE, 1" OD Return (main manifold to tank)	1
9	114339	PIPE, 1-1/4" OD Suction (tank to pump)	1
10	114201	PUMP, Dual inlet (.366/.671)	1
		(Machines w/Kubota gas engine)	
	110460	PUMP, Dual inlet (.488/.854)	1
		(Machines w/Kubota diesel engine	
		and Ford gas engine)	
11	120054	FITTING, Connector #10orb-#8	2
12	110468	HOSE ASSEMBLY, Small pump, 209" lg.	1
13	110468	HOSE ASSEMBLY, Large pump, 209" lg.	1
14	(Ref.)	MANIFOLD ASSEMBLY, Main	1
		(For components, refer to Figure 6-38, Page 98 or	
		Figure 6-39, Page 100)	
15	109311	MOTOR, Hydraulic	1
		(For components, refer to Figure 6-25, Page 74)	1
16	104436	FITTING, Reducer #100orb-#8orb	2
17	110554	FITTING, Tee #8orb-#8-#8	2
18	110498	FITTING, Reducer #8-#6	2
19	110434	MOTION CONTROL VALVE ASSEMBLY	1
20	114583	FITTING, Elbow 90° #8orb-#8 (Replaces 105447)	3
21	110473	HOSE ASSEMBLY, Main manifold to M.C.V. 60" lg.	2
22	114368	HOSE ASSEMBLY, M.C.V. drain 70" lg.	1
23	110471	HOSE ASSEMBLY, M.C.V. to motor 18" lg.	1
24	110470	HOSE ASSEMBLY, M.C.V. to motor 23" lg.	1
25	110566	HOSE ASSEMBLY, Motor to cushion cylinder 56" lg.	1
26	102522	HOSE ASSEMBLY, Free-wheeling valve to cushion	1
		cylinder 24-1/2" lg.	

Description	Units per Assy.
FITTING, Tee #6orb-#6 (Replaces 104660)	1
FITTING, Elbow 90° #4P-#6	2
FREE-WHEELING VALVE ASSEMBLY	1
(Consists of:)	
BLOCK, Valve	1
• VALVE, N.O.	1
COIL, 12 Volt	1
FITTING, IEE #4P-#4P-#4P	1
FITTING, Reducer #4P-#60rb	1
QUICK BRAKE MANIFULD ASSEMBLY	1
(FOI COMPONENTS, Refer to Figure 0-37, Fage 97)	4
CYLINDER ASSEMBLY Steer	1
(For components, Befer to Figure 6-23, Page 68)	'
FITTING, Elbow 90° #60rb-#6 (Replaces 103073)	2
HOSE ASSEMBLY. Steer 140" lg.	2
HOSE ASSEMBLY, Steer 140" lg.	2
FITTING, Elbow 90° #6orb-#4	1
HOSE ASSEMBLY, Motor 100" lg.	1
HOSE ASSEMBLY, Motor to free-wheeling valve 32" lg.	1
HOSE ASSEMBLY, Quick brake manifold to tank 122" lg.	1
TUBE, Pump suction	1
HOSE, Suction 1-1/4" ID (Replaces 114327)	1
HOSE, Clear spacer	1
FITTING, PUMP	1
$POSE$, Suction 1-1/4 - $D \times 5$ -1/2 Ig. (Replaces 114327)	I G
EITTING Connector #16orb-#20	1
HOSE ASSEMBLY Hvd. tank to main manifold	1
nooe nooember, nya. tank to mainmaniota	



Index No.

FIGURE 6-19. HYDRAULIC HOSE CONNECTIONS - Base

1 (Ref.) COVER, Hydraulic tank (Refer to Figures 6-29, Page 84 or Figure 6-30, Page 85) 1 2 (Ref.) CVLINDER ASSEMBLY, Disc brake (For components, refer to Figure 6-21, Page 65) 1 3 102659 FITTING, Connector #8orb-#8 2 4 114388 HOSE ASSEMBLY, Brake 32" Ig. 1 5 103320 CLAMP, Worm 1" AR 6 120059 HOSE, Suction 1" ID 1 7 112281 KIT, U-Bolt 5 8 112260 PIPE, 1" OD Return (main manifold to tank) 1 9 114339 PIPE, 1" OD Roturin (tank to pump) 1 10 114201 PUMP, Dual inlet (386/.671) 1 (Machines w/Kubota gas engine) 1 1 11 120054 FITTING, Connector #10orb.#8 2 13 110458 HOSE ASSEMBLY, Arage pump, 209" Ig. 1 14 (Ref.) MANIFOLD ASSEMBLY, Main 1 (For components, refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 1 1 10 FITTING, Reducer	Index No.	Skyjack Part No.	Description	Units per Assy.
Image: Construction of the system o	1	(Ref.)	COVEB Hydraulic tank	1
2 (Ref.) CVLINDER ASSEMBLY, Disc brake 1 3 102659 FITTING, Components, refer to Figure 6-21, Page 65) 2 4 114388 HOSE ASSEMBLY, Brake 32" Ig. 1 5 103320 CLAMP, Worm 1" AR 6 12059 HOSE, Suction 1" ID 1 7 112381 KIT, U-Boit 5 8 112260 PIPE, 1-1/4" OD Stuction (tank to pump) 1 9 114399 PIPE, 1-1/4" OD Stuction (tank to pump) 1 10 114201 PUMP, Dual inlet (366/,671) 1 1 (Machines w/Kubota gas engine) 1 1 (Machines w/Kubota fiesdel engine 1 110460 PUMP, Dual inlet (488/,854) 1 1 (Machines w/Kubota gas engine) 1 11 120054 FITTING, Connector #10orb-#8 2 1 110468 HOSE ASSEMBLY, Main 1 1 (For components, refer to Figure 6-38, Page 98 or Figure 6-39, Page 100 1 15 109311 MOTOR, Hydraulic	1	(101.)	(Befer to Figures 6-29, Page 84 or Figure 6-30, Page 85)	
2 (No.), 0'Interference 1 3 102659 FITTING, Connector #8orb-#8 2 4 114386 HOSE ASSEMBLY, Brake 32" Ig. 1 5 103320 CLAMP, Worm 1" AR 6 120059 HOSE, Suction 1" ID 1 7 112381 KIT, U-Bolt 5 8 112260 PIPE, 1" OD Return (main manifold to tank) 1 9 114339 PIPE, 1" OD Return (main manifold to tank) 1 10 114201 PUMP, Dual inlet (.366/.671) 1 11 120054 FITTING, Connector #100rb-#8 2 11 120054 HITING, Connector #100rb-#8 2 12 110468 HOSE ASSEMBLY, Main 1 (For components, refer	2	(Bef)	CVI INDER ASSEMBLY Disc brake	1
3 102659 FITTING, Connector #80rb-#8 2 4 114388 HOSE ASSEMBLY, Brake 32" Ig. 1 5 103320 CLAMP Worn 1" AR 6 120059 HOSE, Suction 1" ID 1 7 112381 KIT, U-Bolt 5 9 114339 PIPE, 1-10D Return (main manifold to tank) 1 9 114329 PIPE, 1-1/4" OD Suction (tank to pump) 1 10 114201 PUMP, Dual inlet (.488/.854) 1 (Machines w/Kubota dises engine) 1 1 11 120054 FITTING, Connector #10orb-#8 2 12 110460 PUMP, Dual inlet (.488/.854) 1 (Machines w/Kubota dises engine) 1 1 11 120054 FITTING, Connector #10orb-#8 2 12 110468 HOSE ASSEMBLY, Main 1 (For components, refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 1 15 109311 MOTOR, Hydraulic 1 1 (For componenents, refer t	2	(101.)	(For components, refer to Figure 6-21, Page 65)	
4 114388 HOSE ASSEMBLY, Brake 32° ig. 1 5 103320 CLAMP, Worn 1" AR 6 120059 HOSE, Suction 1" ID 1 7 112381 KIT, U-Bolt 5 8 112260 PIPE, 1" OD Return (main manifold to tank) 1 9 114339 PIPE, 1" OD Return (main manifold to tank) 1 10 114201 PUMP, Dual inlet (.366/.671) 1 10 114201 PUMP, Dual inlet (.488/.854) 1 11 120054 FITTING, Connector # 10orb.#8 2 12 110468 HOSE ASSEMBLY, Main 1 13 10468 HOSE ASSEMBLY, Main 1 14 (Ref.) MANIFOLD ASSEMBLY, Main 1 14 (Ref.) MANIFOLD ASSEMBLY, Main 1 15 109311 MOTOR, Hydraulic 1 17 10554 FITTING, Reducer #00orb.#80rb 2 18 104436 FITTING, Reducer #8.#6 2 19 10434 FITTING, Reducer #8.#6 2 10 10436 FITTIN	З	102659	FITTING Connector #8orb-#8	2
1 1103320 CLAMP Worm 1" AR 6 120059 HOSE, Suction 1" ID 1 7 112381 KIT, U-Bolt 1 7 112381 KIT, U-Bolt 1 9 114339 PIPE, 1" OD Return (main manifold to tank) 1 9 114339 PIPE, 1" OD Return (main manifold to tank) 1 9 114339 PIPE, 1" OD Return (main manifold to tank) 1 10 114201 PUMP, Dual inlet (.368/671) 1 (Machines w/Kubota igas engine) 1 1 11 120054 FITTING, Connector #10orb-#8 2 12 10468 HOSE ASSEMBLY, Large pump, 209" Ig. 1 13 110468 HOSE ASSEMBLY, Main pump, 209" Ig. 1 14 (Ref.) MANIFOLD ASSEMBLY, Main pump, 209" Ig. 1 15 109311 MOTOR, Hydraulic 1 16 104436 FITTING, Reducer #100orb-#8orb 2 17 110554 FITTING, Reducer #0 Hoorb-#8orb 2 18 110498 FITTING, Reducer #8-#6 2 19	4	11/388	HOSE Δ SSEMBLY Brake 32" In	1
6 120059 HOSE, Suction 1" ID 1 7 112381 KIT, U-Bolt 5 8 112260 PIPE, 1" OD Return (main manifold to tank) 1 9 114339 PIPE, 1" OD Suction (tank to pump) 1 10 1144201 PUMP, Dual inlet (.3866.671) 1 11 114201 PUMP, Dual inlet (.3866.671) 1 11 114201 PUMP, Dual inlet (.386.854) 1 11 120054 FITTING, Connector #10orb-#8 2 12 110468 HOSE ASSEMBLY, Small pump, 209" Ig. 1 13 110468 HOSE ASSEMBLY, Main 1 (For components, refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 1 1 14 (Fer.) MANIFOLD ASSEMBLY, Main 1 15 109311 MOTOR, Hydraulic 1 1 (For components, refer to Figure 6-25, Page 74) 1 1 16 104436 FITTING, Reducer #100orb-#80rb 2 17 110554 FITTING, Reducer #8-#6 2 2 19 110438 FITTING, Reducer #8-#6 <td< td=""><td>5</td><td>103320</td><td>CLAMP Worm 1"</td><td></td></td<>	5	103320	CLAMP Worm 1"	
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9 114339 PIPE, 1-1/4" OD Suction (tank to pump) 1 10 114201 PUMP, Dual inlet (.366/.671) 1 11 10460 PUMP, Dual inlet (.366/.671) 1 11 120054 FITTING, Connector #10arb.#8 2 12 110468 HOSE ASSEMBLY, Small pump, 209" Ig. 1 13 110468 HOSE ASSEMBLY, Main 1 14 (Ref.) MANIFOLD ASSEMBLY, Main 1 16 104436 FITTING, Reducer #100arb.#8 orb 2 17 110554 FITTING, Reducer #100arb.#8 orb 2 18 110488 MOTOR, Hydraulic 1 (For components, refer to Figure 6-25, Page 74) 1 1 10 (For components, refer to 5Figure 6-25, Page 74) 1 18 110436 HITING, Reducer #8-#8 2 19 110434 MOTION CONTROL VALVE ASSEMBLY 1 20 114583 FITTING, Elbow 90" #8orb-#8 (Replaces 105447) 3 21 110434 MOTION CONTROL VALVE ASSEMBLY 1 22 114368 HOSE ASSEMBLY, M.C.V. to motor 18" Ig.	8	112260	PIPE 1" OD Beturn (main manifold to tank)	1
10 114201 PUMP, Dual inlet (366/.671) 1 10 114201 PUMP, Dual inlet (366/.671) 1 11 10460 PUMP, Dual inlet (366/.671) 1 11 110460 PUMP, Dual inlet (366/.671) 1 11 120054 FITTING, Connector #10orb-#8 2 12 110468 HOSE ASSEMBLY, Large pump, 209" Ig. 1 13 110468 HOSE ASSEMBLY, Large pump, 209" Ig. 1 14 (Ref.) MANIFOLD ASSEMBLY, Main 1 16 104436 FITTING, Reducer #1000rb-#80rb 2 17 110554 FITTING, Reducer #1000rb-#80rb 2 17 110554 FITTING, Reducer #8-#6 2 18 110498 FITTING, Reducer #8-#6 2 19 110434 MOTION CONTROL VALVE ASSEMBLY 1 21 110473 HOSE ASSEMBLY, M.C.V. tam 70" Ig. 1 22 114583 HOSE ASSEMBLY, M.C.V. tom tor 18" Ig. 1 23 121854 HOSE ASSEMBLY, M.C.V. tom tor 23" Ig. 1 24 121853 HOSE ASSEMBLY, M.C.V. tom tor 23" I	a	11/2200	PIPE $1-1/4$ " OD Suction (tank to nump)	1
10 110401 1000000000000000000000000000000000000	10	114201	PLIMP Dual inlet (366/ 671)	1
110460 PUMP, Dual inlet (.488/.854) 1 (Machines w/Kubota diesel engine and Ford gas engine) 1 11 120054 FITTING, Connector #10orb-#8 2 12 110468 HOSE ASSEMBLY, Small pump, 209" Ig. 1 13 110468 HOSE ASSEMBLY, Large pump, 209" Ig. 1 14 (Ref.) MANIFOLD ASSEMBLY, Main 1 (For components, refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 1 15 109311 MOTOR, Hydraulic 1 (For components, refer to Figure 6-25, Page 74) 1 1 16 104436 FITTING, Reducer #100orb-#8orb 2 17 110554 FITTING, Reducer #8-#6 2 19 110434 MOTION CONTROL VALVE ASSEMBLY 1 20 114583 FITTING, Elbow 90° #8orb-#8 (Replaces 105447) 3 21 110473 HOSE ASSEMBLY, M.C.V drain 70" Ig. 1 23 121854 HOSE ASSEMBLY, M.C.V. tomotor 18" Ig. 1 24 121853 HOSE ASSEMBLY, M.C.V. tomotor 23" Ig. 1 25 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" Ig.	10	114201	(Machines w/Kubota gas engine)	
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12 110468 HOSE ASSEMBLY, Small pump, 209" Ig. 1 13 110468 HOSE ASSEMBLY, Large pump, 209" Ig. 1 14 (Ref.) MANIFOLD ASSEMBLY, Main 1 (For components, refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 1 15 109311 MOTOR, Hydraulic 1 (For components, refer to Figure 6-25, Page 74) 1 1 16 104436 FITTING, Reducer #1000rb-#8orb 2 17 110554 FITTING, Reducer #8orb-#8-#8 2 18 110498 FITTING, Reducer #8-#6 2 19 110434 MOTION CONTROL VALVE ASSEMBLY 1 20 114583 FITTING, Elbow 90° #8orb-#8 (Replaces 105447) 3 21 110473 HOSE ASSEMBLY, M.C.V. drain 70" Ig. 1 23 121854 HOSE ASSEMBLY, M.C.V. to motor 18" Ig. 1 24 121853 HOSE ASSEMBLY, M.C.V. to motor 23" Ig. 1 26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion cylinder 24-1/2" Ig. 1	11	120054	FITTING Connector #10orb-#8	2
13 110468 HOSE ASSEMBLY, Large pump, 209" Ig. 1 14 (Ref.) MANIFOLD ASSEMBLY, Main 1 (For components, refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 1 15 109311 MOTOR, Hydraulic 1 (For components, refer to Figure 6-25, Page 74) 1 1 16 104436 FITTING, Reducer #100orb-#8orb 2 17 110554 FITTING, Reducer #8-#6 2 19 110438 FITTING, Reducer #8-#6 2 10 114583 FITTING, Elbow 90° #8orb-#8 (Replaces 105447) 3 21 114583 FITTING, Elbow 90° #8orb-#8 (Replaces 105447) 3 22 114368 HOSE ASSEMBLY, M.C.V. to motor 18" Ig. 1 23 121854 HOSE ASSEMBLY, M.C.V. to motor 18" Ig. 1 24 121853 HOSE ASSEMBLY, M.C.V. to motor 23" Ig. 1 25 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" Ig. 1 26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 <td>12</td> <td>110468</td> <td>HOSE ASSEMBLY Small nump 209" Ig</td> <td>1</td>	12	110468	HOSE ASSEMBLY Small nump 209" Ig	1
14 (Ref.) MANIFOLD ASSEMBLY, Main (For components, refer to Figure 6-38, Page 98 or Figure 6-39, Page 100) 1 15 109311 MOTOR, Hydraulic (For components, refer to Figure 6-25, Page 74) 1 16 104436 FIITTING, Reducer #100orb-#8orb 2 17 110554 FIITTING, Reducer #100orb-#8orb 2 18 110498 FIITTING, Reducer #8-#6 2 19 110434 MOTION CONTROL VALVE ASSEMBLY 1 20 114583 FIITTING, Elbow 90° #8orb-#8 (Replaces 105447) 3 21 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60° Ig. 2 22 114368 HOSE ASSEMBLY, M.C.V. to motor 18° Ig. 1 23 121854 HOSE ASSEMBLY, M.C.V. to motor 23° Ig. 1 24 121853 HOSE ASSEMBLY, Motor to cushion cylinder 56° Ig. 1 26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion cylinder 24-1/2° Ig. 1	13	110468	HOSE ASSEMBLY Large pump 209" lg	1
Image: Construct of the image:	14	(Ref.)	MANIFOLD ASSEMBLY, Main	1
Figure 6-39, Page 100) 15 109311 MOTOR, Hydraulic (For components, refer to Figure 6-25, Page 74) 1 16 104436 FITTING, Reducer #100orb-#8orb 2 17 110554 FITTING, Reducer #8orb-#8-#8 2 18 110498 FITTING, Reducer #8-#6 2 19 110434 MOTION CONTROL VALVE ASSEMBLY 1 20 114583 FITTING, Elbow 90° #8orb-#8 (Replaces 105447) 3 21 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60° Ig. 2 22 114368 HOSE ASSEMBLY, M.C.V. to motor 18" Ig. 1 23 121854 HOSE ASSEMBLY, M.C.V. to motor 23" Ig. 1 24 121853 HOSE ASSEMBLY, M.C.V. to motor 23" Ig. 1 25 110566 HOSE ASSEMBLY, M.C.V. to motor 23" Ig. 1 26 102522 HOSE ASSEMBLY, M.C.V. to motor 23" Ig. 1 26 102522 HOSE ASSEMBLY, M.C.V. to motor 240° Ig. 1 27 102522 HOSE ASSEMBLY, M.C.V. to motor 240° Ig. 1 28 102522		(1011)	(For components, refer to Figure 6-38, Page 98 or	
15 109311 MOTOR, Hydraulic (For components, refer to Figure 6-25, Page 74) 1 16 104436 FITTING, Reducer #100orb-#8orb 2 17 110554 FITTING, Tee #8orb-#8-#8 2 18 110498 FITTING, Reducer #8-#6 2 19 110434 MOTION CONTROL VALVE ASSEMBLY 1 20 114583 FITTING, Elbow 90° #8orb-#8 (Replaces 105447) 3 21 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60° Ig. 2 22 114368 HOSE ASSEMBLY, M.C.V. train 70° Ig. 1 23 121854 HOSE ASSEMBLY, M.C.V. to motor 18° Ig. 1 24 121853 HOSE ASSEMBLY, M.C.V. to motor 23° Ig. 1 25 110566 HOSE ASSEMBLY, M.C.V. to motor 23° Ig. 1 26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 1 cylinder 24-1/2° Ig. 1 1			Figure 6-39, Page 100)	
Image: Construct of the system Image: Construct of the system <thimage: construct="" of="" system<="" th="" the=""> <thimage: co<="" td=""><td>15</td><td>109311</td><td>MOTOR. Hydraulic</td><td>1</td></thimage:></thimage:>	15	109311	MOTOR. Hydraulic	1
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17 110554 FITTING, Tee #8orb-#8-#8 2 18 110498 FITTING, Reducer #8-#6 2 19 110434 MOTION CONTROL VALVE ASSEMBLY 1 20 114583 FITTING, Elbow 90° #8orb-#8 (Replaces 105447) 3 21 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60° Ig. 2 22 114368 HOSE ASSEMBLY, M.C.V. drain 70° Ig. 1 23 121854 HOSE ASSEMBLY, M.C.V. to motor 18" Ig. 1 24 121853 HOSE ASSEMBLY, M.C.V. to motor 23" Ig. 1 25 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" Ig. 1 26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" Ig. 1 1	16	104436	FITTING. Reducer #100orb-#8orb	2
18 110498 FITTING, Reducer #8-#6 2 19 110434 MOTION CONTROL VALVE ASSEMBLY 1 20 114583 FITTING, Elbow 90° #8orb-#8 (Replaces 105447) 3 21 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" lg. 2 22 114368 HOSE ASSEMBLY, M.C.V. drain 70" lg. 1 23 121854 HOSE ASSEMBLY, M.C.V. to motor 18" lg. 1 24 121853 HOSE ASSEMBLY, M.C.V. to motor 23" lg. 1 25 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" lg. 1 26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1	17	110554	FITTING. Tee #8orb-#8-#8	2
19 110434 MOTION CONTROL VALVE ASSEMBLY 1 20 114583 FITTING, Elbow 90° #8orb-#8 (Replaces 105447) 3 21 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" Ig. 2 22 114368 HOSE ASSEMBLY, M.C.V. drain 70" Ig. 1 23 121854 HOSE ASSEMBLY, M.C.V. to motor 18" Ig. 1 24 121853 HOSE ASSEMBLY, M.C.V. to motor 23" Ig. 1 25 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" Ig. 1 26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" Ig. 1 1 1	18	110498	FITTING, Reducer #8-#6	2
20 114583 FITTING, Elbow 90° #8orb-#8 (Replaces 105447) 3 21 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" Ig. 2 22 114368 HOSE ASSEMBLY, M.C.V. drain 70" Ig. 1 23 121854 HOSE ASSEMBLY, M.C.V. to motor 18" Ig. 1 24 121853 HOSE ASSEMBLY, M.C.V. to motor 23" Ig. 1 25 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" Ig. 1 26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" Ig. I 1	19	110434	MOTION CONTROL VALVE ASSEMBLY	1
21 110473 HOSE ASSEMBLY, Main manifold to M.C.V. 60" lg. 2 22 114368 HOSE ASSEMBLY, M.C.V. drain 70" lg. 1 23 121854 HOSE ASSEMBLY, M.C.V. to motor 18" lg. 1 24 121853 HOSE ASSEMBLY, M.C.V. to motor 23" lg. 1 25 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" lg. 1 26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion cylinder 24-1/2" lg. 1	20	114583	FITTING, Elbow 90° #8orb-#8 (Replaces 105447)	3
22 114368 HOSE ASSEMBLY, M.C.V. drain 70" lg. 1 23 121854 HOSE ASSEMBLY, M.C.V. to motor 18" lg. 1 24 121853 HOSE ASSEMBLY, M.C.V. to motor 23" lg. 1 25 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" lg. 1 26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion cylinder 24-1/2" lg. 1	21	110473	HOSE ASSEMBLY, Main manifold to M.C.V. 60" lg.	2
23121854HOSE ASSEMBLY, M.C.V. to motor 18" lg.124121853HOSE ASSEMBLY, M.C.V. to motor 23" lg.125110566HOSE ASSEMBLY, Motor to cushion cylinder 56" lg.126102522HOSE ASSEMBLY, Free-wheeling valve to cushion1cylinder 24-1/2" lg.	22	114368	HOSE ASSEMBLY, M.C.V. drain 70" lg.	1
24121853HOSE ASSEMBLY, M.C.V. to motor 23" lg.125110566HOSE ASSEMBLY, Motor to cushion cylinder 56" lg.126102522HOSE ASSEMBLY, Free-wheeling valve to cushion cylinder 24-1/2" lg.1	23	121854	HOSE ASSEMBLY, M.C.V. to motor 18" lg.	1
25 110566 HOSE ASSEMBLY, Motor to cushion cylinder 56" lg. 1 26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 vylinder 24-1/2" lg. 1	24	121853	HOSE ASSEMBLY, M.C.V. to motor 23" lg.	1
26 102522 HOSE ASSEMBLY, Free-wheeling valve to cushion 1 cylinder 24-1/2" lg. Image: state	25	110566	HOSE ASSEMBLY, Motor to cushion cylinder 56" lg.	1
cylinder 24-1/2" lg.	26	102522	HOSE ASSEMBLY, Free-wheeling valve to cushion	1
			cylinder 24-1/2" lg.	

Skyjack Part No.	Description	Units per Assy.
114579	EITTING Tee #6orb-#6 (Beplaces 104660)	1
103324	FITTING, Flbow 90° #4P-#6	2
(Ref.)	FREE-WHEELING VALVE ASSEMBLY	1
(-)	(Consists of:)	
103615	• BLOCK, Valve	1
112218	• VALVE, N.O.	1
103613	COIL, 12 Volt	1
103245	FITTING, Tee #4P-#4P-#4P	1
106554	FITTING, Reducer #4P-#6orb	1
(Ref.)	QUICK BRAKE MANIFOLD ASSEMBLY	1
	(For components, Refer to Figure 6-37, Page 97)	
107752	CYLINDER, Cushion	1
(Ref.)	CYLINDER ASSEMBLY, Steer	1
444570	(For components, Refer to Figure 6-23, Page 68)	
114578	FIT TING, EIDOW 90° #60rb-#6 (Replaces 103073)	2
109418	HUSE ASSEMBLY, Steer 140 Ig.	2
113348	FITTING, EIDOW 90° #6-#4	1
121001	HOSE ASSEMIDLY, DIAITH HOSE ASSEMBLY Motor 100" Ig	1
104487	HOSE ASSEMBLY Motor to free-wheeling value 32" la	1
110475	HOSE ASSEMBLY Quick brake manifold to tank 122" lg	1
114323	TUBE. Pump suction	1
119857	HOSE, Suction 1-1/4" ID (Replaces 114327)	1
102918	HOSE, Clear spacer	1
114325	FITTING, Pump	1
119858	HOSE, Suction 1-1/4"-ID x 5-1/2" lg. (Replaces 114327)	1
114326	CLAMP, Hose 1-1/4"	6
114328	FITTING, Connector #16orb-#20	1
120058	HOSE ASSEMBLY, Hyd. tank to main manifold	1
121602	FITTING, Tee	1

FIGURE 6-19. HYDRAULIC HOSE CONNECTIONS - Base



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FIGURE 6-20. DISC BRAKE ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
1	112448	CYLINDER ASSEMBLY, Disc brake (For components, Refer to Figure 6-21, Page 65)	1
2	109579	SPACER, Cylinder mounting	1
3	109599	CLEVIS, Rod end 1/2-20	1
4	109598	NUT, Jam 1/2-20	1
5	109600	PIN, Clevis	1
6	109601	PIN, Cotter	1
7	109580	BRACKET, Brake cylinder	1
	103907	• BOLT, Hex-hd 1/2-13 x 1-1/2" lg.	2
	103470	WASHER, Lock 1/2"	2
	103468	WASHER, Flat 1/2"	2
8	109602	CALIPER ASSEMBLY, Disc brake	1
	120996	 KIT, Disc pad thin (replaces 113731) 	AR
	120997	PAD, Brake, actuated	1
	120998	PAD, Brake, nonactuated	1
	103909	• BOLI, Hex-hd 1/2-13 x 1-1/4" lg.	3
	103470	• WASHER, LOCK 1/2"	3
0	115347	LEVER, Brake Actuator DISC. 11" Diameter broke	1
9	10229	DISC, IT Diameter brake	
	103072	• DOLI, Π ex-110 3/6-10 X 2-1/4 Ig.	4
	103999	WASHER, LUCK 3/0	4
10	115012	SUPPORT Disc brake tube(replaces 111233)	1
10	100845	 BOLT Hex-hd 5/8-11 x 3-1/2" lg_grade 8 	2
	100352	WASHER_Flat 5/8"	4
	111577	 NUT. Lock 5/8-11 (special) 	2
	103907	• BOLT, Hex-hd 1/2-13 x 1-1/2" lg.	2
	107949	• NUT, Jam 1/2-13	2
11	111117	WELDMENT, Brake skid	1
	103872	• BOLT, Hex-hd 3/8-16 x 2-1/4" lg.	4
	103999	WASHER, Lock 3/8"	4
	103978	• NUT, Hex 3/8-16	8
12	111961	PAD, Brake support	2
13	111159	FLANGE, Drive shaft yoke	1

	5		-800-07
Index No.	Skyjack Part No.	Description	Units per Assy.
1 2 *3 *4 5 *6 *7 8 9 10 11 12 13 14	112448 109575 109571 106583 109597 109572 116364 109596 111803 109574 109573 109642 109603 109604 109579 112274	CYLINDER ASSEMBLY, Disc brake (Order components) • WELDMENT, Cylinder barrel • GLAND, Front end • O-RING, Front gland • WIPER, Brake rod • ROD, Brake cylinder • SEAL, Piston (Replaces 109595) • O-RING, Piston • NUT, Hex 7/16-20 • PISTON • SPACER, Stroke limit • WASHER, Rod spacer • SPRING, Inner • SPRING, Outer SPACER, Mounting KIT, Seal repair * Part of Seal Repair Kit, 112274.	- 1 1 1 1 1 1 1 1 2 AR

FIGURE 6-21. DISC BRAKE CYLINDER ASSEMBLY



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FIGURE 6-22. FRONT IDLE AXLE ASSEMBLY (For 2-Wheel Drive Machines)

Index No.	Skyjack Part No.	Description	Units per Assy.
Α	105188	AXLE ASSEMBLY, Front idle (Models 88xx)	-
В	110044	AXLE ASSEMBLY, Front idle (Models 82xx)	-
1	108487	WELDMENT, Front idle axle, A	1
	111585	WELDMENT, Front idle axle, B	1
2	111756	WELDMENT, Spindle arm RH	1
3	111755	WELDMENT, Spindle arm LH	1
4	100309	BUSHING	2
5	102230	• PIN, Spindle	2
	102027	• • NIPPLE, Grease	2
	103887	• • BOLT, Hex-hd 5/16-18 x 3/4" lg.	2
	103996	• • WASHER, Flat 5/16"	2
6	102229	PIN, He bar DOLT Have help (10, 10, 10, 0/4)" he	2
	103887	• • BOLI, HEX-NG 5/16-18 X 3/4" IG.	2
7	103996	• • WASHER, Fial 5/16	2
· /	107906	Operate of:)	2
	102646	• • WASHER Flat	2
	102040	• HUB Front wheel	2
	102000	BEABING Inner cone	2
	102979	BEARING, Inner cup	2
	103009	BEARING. Outer cone	2
	102978	BEARING, Outer cup	2
	103085	• • PIN, Cotter 3/16" x 1-1/2" lg.	2
	120414	SEAL, Grease	2
	103198	BOLT, Wheel	16
	103220	• CAP, Dust	2
	104351	• NUT, Castle 1"-14	2
8	101995	WELDMENT, Tie bar, A	1
	110534	• WELDMENT, Tie bar, B	1
9	101805	PIN, Steer cylinder	2
		(Used with Cylinder, 105325)	
	103910	• • BOLI, Hex-hd 1/2-13 x 1-1/4" lg.	2
	103470	• • WASHER, LOCK 1/2"	2
10	101806	• WASHER, Cylinder pin 5/16" tnk.	2
11	101520	• WASHER, NYION 1-9/32 X 2 X 1/8 LINK. (Used with cylinder 105325) • WASHER Bronzo 1" x 2" x 1/8" thk	4
12	101801	BEARING Thrust	2
13	120405	CYLINDER ASSEMBLY Steer	1
	120100	(replaces 112498)(replaces and 105325 by also ordering	
		items 16 and 17.) (For components, refer to Figure 6-23, Page 68)	
14	100249	• BUSHING, 1"ID x 3/4" lg.	4
15	103972	• PIN, Cotter 1/4" x 2" lg. (Used with cylinder, 105325)	2
16	113432	SLEEVE, Cylinder mounting bolt	2
17	113489	• BOLT, Hex-hd 3/4-10 x 3-1/4" lg. grade 8	2
	103990	WASHER, Flat 3/4"	2
	104002	WASHER, Lock 3/4"	2
	100252	• • NUT, Jam 3/4-10	2
18	102028	SPACER, Steer cylinder	



FIGURE 6-23. STEER CYLINDER ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
A B	120405 \$	CYLINDER ASSEMBLY, Steer (2WD/4WD) CYLINDER ASSEMBLY, Steer (2WD/4WD) (2-1/2" diameter) (Replaces 105325 and 105335) (For service replacement, order Cylinder Assembly - 112498) (See Figure 6-20 or Figure 6-22 for attaching parts)	-
С	\$	CYLINDER ASSEMBLY, Steer (2WD) (105325) (2-1/4" diameter) (For service replacement, order Cylinder Assembly - 112498)	-
D	\$	CYLINDER ASSEMBLY, Steer (4WD) (105335) (2-1/4"diameter) (For service replacement, order Cylinder Assembly - 112498)	-
1	113347 105826 103245	ROD, Steering, A, B ROD, Steering, C ROD, Steering, D	1 1 1
*2	113350 103826	SEAL, Steering rod, A , B SEAL, Steering rod, C , D	1 1
*3	120438 107934 104662	O-RING, Gland, A O-RING, Gland, B O-BING, Gland, C, D	1
4	120401 112496	GLAND, Front end, B GLAND, Front end, B	
*5	113349 103827	WIPER, Rod, A , B WIPER, Rod, C , D	1 1 1
6	104111	SPACER	1
*7	103829	O-RING, Piston	1
8	10/935	SEAL, PISTON, A, B	1
a	112407	PISTON Cylinder A R	1
l .	104616	PISTON, Cylinder, C, D	1
10	103830	NUT, Lock 5/8-11 grade C	1
11	112494	WELDMENT, Cylinder barrel, A, B	1
	106243	WELDMENT, Cylinder barrel, C	1
	103244	WELDMENT, Cylinder barrel, D	1
12	102025	BEARING, Spherical, A, B, D	2
13	104114	RING, Retaining, A, B, D	2
14	101328	ELTING Grosse A R	2
15	102027	FITTING Grease C D	2
	113443	KIT Seal repair. A. B	AR
	103762	KIT, Seal repair, C, D	AR
		* Part of Seal Repair Kit 113443 or 103762.	



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FIGURE 6-24. FRONT DRIVE AXLE ASSEMBLY (For 4-Wheel Drive Machines)

Index No.	Skyjack Part No.	Description	Units per
			ASSY.
A	-	(Models 88XX)	-
в	_	MODIFIED AXLE ASSEMBLY Front drive	_
_		(Models 82XX)	
1	102030	WELDMENT, Steering arm	1
2	111146	BRACKET, Steer cylinder, B	1
	117430	 BOLT, Hex-hd 3/8-16 x 1-1/4" lg. grade 8 	2
	117417	 TAB, Bolt locking (3/8" bolt) 	2
	117441	 TAB, Bolt locking (1/2" bolt) 	2
	102045	 BOLT, Hex-hd 1/2-20 x 1-3/4" grade 8 	2
3	(Ref.)	CYLINDER ASSEMBLY, Steer	1
		(For components, Refer to Figure 6-23, Page 68)	
4	102028	• SPACER, 3/4" x 1" x 7/16" thk.	4
5	103264	WASHER, Bronze 1" x 2" x 1/8" thk.	
6	120845	WELDMENT, Steering arm Support (Must use Castle Nut #120191)	1
	120191	Poth part numbers 120945 & 120101 MUST be ordered for Machines	
		with DANA 70 Series ayles with Serial numbers 36602 (8231, 8831)	
		or 41283 (8241. 8841) & BELOW	
С	115728	AXLE ASSEMBLY, Front drive, A	1
	109279	AXLE ASSEMBLY, Front drive, B	1
		(Consists of items 7 thru 51)	
7	\$	 HOUSING W/BEARING CAPS, Front drive axle 	1
8	117130	ORIVE GEAR AND PINION SET, A	1
	113878	ORIVE GEAR AND PINION SET, B	1
9	113879	SLINGER, Inner pinion	1
10	113880	BEARING ASSEMBLY, Inner pinion	1
11	113881	KII, Pinion adjusting shim	AR
12	113882	SLINGER, Inner pinion bearing	1
14	11388/		1
15	113885	• WASHER Pinion nut	1
16	113886	• NUT Pinion	1
17	113887	• YOKE ASSEMBLY. End	1
18	108394	• • COVER, Carrier	1
19	113888	PLUG, Carrier cover	1
20	113889	BEARING ASSEMBLY, Differential	2
21	113890	KIT, Differential bearing shim	AR
22	113891	BOLT, Drive gear	12
23	113892	PLUG, Vent	1
24	113893	SEAL AND GUIDE ASSEMBLY	1
25	108392	KII, King pin seal and bearing	AR
		Parts list continued on the following page.	

FIGURE 6-24. FRONT DRIVE AXLE ASSEMBLY (Continued) (For 4-Wheel Drive Machines)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53	115373 113894 \$ 113792 113793 113895 113896 113897 113898 108388 105817 113732 113733 113900 113901 113902 108393 108390 113903 113903 113903 113903 113905 113906 113907 \$ 115371 108391 113907 \$ 115371 108391 113909 113910 115303 110070	 TIE ROD ASSEMBLY, A TIE ROD ASSEMBLY, B TIE ROD END, Tie rod LH END, Tie rod RH RETAINER, Upper king pin Spring SPRING, Upper king pin GASKET, Upper king pin BUSHING, Upper king pin BUSHING, Upper king pin KNUCKLE, Steering LH (shown) KNUCKLE, Steering RH (opposite) CAP, Upper king pin JOINT, Universal drive KIT, Spindle bearing and seal SPINDLE ASSEMBLY, Inner hub HUB, Wheel SEAL, Wheel hub BEARING ASSEMBLY, Outer hub HUB, Wheel STUD, Wheel 5/8-18 BEARING ASSEMBLY, Outer hub NUT, Bearing retaining WASHER, Retaining nut lock FLANGE, Axle shaft CAP, Hub DIFFERENTIAL ASSEMBLY GEAR SET, Internal differential, A GEAR SET, Internal differential, B KIT, Disc and plate BUT, Differential case AXLE SHAFT ASSEMBLY, LH & RH (47" lg.), A (Includes item #35) AXLE SHAFT ASSEMBLY, LH (39" lg.), B SLINGER PIN, Cotter 1/8 X 2" 	1 1 1 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 1 2 2 2 2 2 2 1 1 1 2 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 2 1 1 1 2 2 2 2 2 2 2 1 1 1 2 2 2 2 2 2 2 2 1 1 1 2 2 2 2 2 2 2 2 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 1 1 1 1 2 2 2 2 2 2 2 1 1 1 2 2 2 2 2 2 2 1 1 1 1 2

FIGURE 6-25A. CENTER DRIVE AND DRIVE SHAFT (31' Models with Serial Number 36760 and Below) (41' Models with Serial Number 41563 and Below)



FIGURE 6-25A. CENTER DRIVE AND DRIVE SHAFT (31' Models with Serial Number 36760 and Below) (41' Models with Serial Number 41563 and Below)

Index No.	Skyjack Part No.	Description	Units per Assy.
Α	(Ref.)	CENTER DRIVE AND DRIVE SHAFTS	-
В	(Ref.)	CENTER DRIVE AND DRIVE SHAFTS (Machines manufactured 7/96 and Before)	-
1	116213 110441	WELDMENT, Center drive box, A WELDMENT, Center drive box, B	1
2	116225 108686	 COVER, Chain upper, A COVER, Chain upper, B 	1
	103887 103404	 BOLT, Hex-hd 5/16-18 x 3/4" lg. WASHER, Lock 5/16 	4
3	116231 108688	 COVER, Chain lower, A COVER, Chain lower, B 	1
4	103855	 BOLI, Hex-hd 1/4-20 x 1/2" lg. PLATE, Hydraulic motor adjusting, A 	4
5	110453	 PLATE, Hydraulic motor adjusting, B BOLT, Soc-hd 1/2-13 x 2-1/2" lg. PLATE, Drive sprocket bearing. 	2
67	111138	 BEARING SPACER, Sprocket plate, A 	22
89	105863 101973	 KIT, Universal joint SHAFT, Center drive 	2
10	103513 103199	 FITTING, Grease BOLT, Driven sprocket 1/2-20x 1" lg. 	2 5
11	103314	 (Refer to Section 5, Table 5 for torque specifications) RING, Retaining REABING Elenged 	2
12	103016	 BEARING, Flanged, A BEARING, Flanged (modified), B EITTING, Grease 	22
	103902	 BOLT, Hex-hd 1/2-13 x 2-1/4" lg. WASHER, Flat 1/2" 	8
	103470 103471	 WASHER, Lock 1/2" NUT, Hex 1/2-13 	8
13	115731 103905	 BOLT, Adjusting 1/2-13 x 2-1/2" lg., A BOLT, Adjusting 1/2-13 x 2" lg., B 	2
14	107949	 NOT, Adjusting jam 1/2-13 MOTOR, 2 Speed drive VALVE Spring/parallel 	1
	103613	 • COIL, Series/parallel valve • CHECK BALL 	1
16	115338 110456	• SEAL KIT • SPROCKET, Center drive	1
17	113564 110522	 SPROCKET, Center driven (30 Tooth) (see Note) (Later machines) SPROCKET, Center driven (26 Tooth) (see Note) (Early machines) 	1
18	103053	 CHAIN, #60 (21 links w/30 tooth sprockets) CHAIN, #60 (19 links w/26 tooth sprockets) 	AR AR
19	110426	 SHAFT, Rear drive YOKE Front drive shaft 	1
21	116179	 SHAFT, Front drive, A SHAFT, Front drive, B 	
22 23	110459 110454	 SPACER, 1-1/8 diameter x 1-1/4" Ig., B PLATE, Drive sprocket bearing, B 	2
		Items 23 thru 25 are used for 4wd machines.	
24 25	105863 103084	KIT, Universal joint U-BOLT KIT. Front drive shaft	2
26 27	103099 112709	YOKE, Front drive shaft CAP, Center drive shaft	1
		NOTE: Count the number of teeth before ordering.	

FIGURE 6-25B. CENTER DRIVE AND DRIVE SHAFTS (Models Equipped with Haessler Drive Serial Number 1690 and Below)



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FIGURE 6-25B. CENTER DRIVE AND DRIVE SHAFTS (Models Equipped with Haessler Drive Serial Number 1690 and Below)

Index No.	Skyjack Part No.	Description	Units per Assy.
Α	900550	CENTER DRIVE Assembly	_
1	121629	CAP, Output Shaft (2WD)	1
2	900329	• BOLT, M8X1.25X15	8
3	900328	• SEAL, Lip	3
4	900427	FLANGE, Output Shaft	2
5	900490	O-RING, Flange	3
6	900408	HOUSING, Transfer Case, Front	1
7	900080	PIN, Dowel	2
8	900321	• BEARING, 6210	4
9	900547	GEAR, Input Shaft	1
10	121554	Assembly, Output Shaft and Gear	1
11	900407	HOUSING, Transfer Case, Rear	1
12	900071	PLUG, Oil Drain	1
13	900283	BOLI, M8X1.25X50	10
14	900072	SEAL, Drain Plug	2
15	900650	MAGNEI, Ring DULO, Oil Durin	
10	900643		
10	900370		1
10	900336	ELANGE Hydraulic motor	1
20	900330	SHIM	1
20	900414	• BOLT M8X1 25v22	8
22	112228	PLATE O B Manifold Cover	1
23	114148	PLATE, Center Drive Motor Cover	1
24	109311	MOTOR, 2 Speed drive	1
	103623	• • VALVE. Series/parallel	1
	103613	COIL, Series/parallel valve	1
	115340	• • • CHECK BALL	4
	115338	• SEAL KIT	1
25	105863	KIT, Universal joint	AR
26	118258	SHAFT, Rear drive	1
27	103099	YOKE	AR
	900542	BOOT, Output Shaft	AR
		Following items are used on 4WD machines	
28	103099	YOKE	AR
	900542	BOOT, Output Shaft	AR
29	105863	KIT, Universal joint	AR
30	116179	SHAF I, Front drive	
31	103084		
32	900655	KIT, SERVICE (9 Pieces) (Consists of itoms $2(2)$, $5(2)$, $14(2)$, 8 , $17(1)$)	
		$(00131515 01 1101115 3(3), 3(3), 14(2) \propto 17(1))$	

FIGURE 6-25C. CENTER DRIVE AND DRIVE SHAFTS



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FIGURE 6-25C. CENTER DRIVE AND DRIVE SHAFTS

Index No.	Skyjack Part No.	Description	Units per Assy.
Α	900550	CENTER DRIVE Assembly	-
1	121629	CAP, Output Shaft (2WD)	1
2	900328	• SEAL, Lip	3
3	900408	HOUSING, Transfer Case, Front	1
4	900080	PIN, Dowel	2
5	900321	• BEARING, 6210	4
6	900547	GEAR, Input Shaft	1
7	121554	ASSEMBLY, Output Shaft and Gear	1
8	900407	HOUSING, Transfer Case, Rear	1
9	900283	• BOLT, M8X1.25X50	10
10	900072	SEAL, Drain Plug	2
11	900643	PLUG, Oil Drain	1
12	900370	BREATHER	1
13	900553	• FITTING, 90°	1
14	900414	SHIM	1
15	112228	PLATE, O.R.Manifold Cover	1
16	114148	PLATE, Center Drive Motor Cover	1
17	105863	KIT, Universal joint	AR
18	118258	SHAFT, Rear drive	1
19	103099	YOKE	AR
	900542	BOOT, Output Shaft	AR
20	109311	MOTOR, 2 Speed drive	1
	103623	• • VALVE, Series/parallel	1
	103613	COIL, Series/parallel valve	1
	115340	• • • CHECK BALL	4
	115338	• • SEAL KIT	1
		Following items are used on 4WD machines	
21	103099	YOKE	AR
	900542	BOOT, Output Shaft	AR
22	105863	KIT, Universal joint	AR
23	116179	SHAFT, Front drive	1
24	103084	U-BOLT KIT	1
25	900655	KIT SERVICE (9 Pieces)	
		(Consists of items $2(3)$ 10(2) & 12(1))	



FIGURE 6-26. REAR DRIVE AXLE ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
Α	-	AXLE ASSEMBLY, Rear drive (Models 88XX)	_
B	-	AXLE ASSEMBLY, Rear drive (Models 82XX)	-
		(Replaces 103387)	
1	\$	HOUSING W/BEARING CAPS, Rear drive axle	1
2	117310	DRIVE GEAR AND PINION ASSEMBLY, A	
	113911	DRIVE GEAR AND PINION ASSEMBLY, B	1
3	113880	BEARING ASSEMBLY, Inner pinion	1
		(Includes item #4)	
4	113881	KIT, Pinion adjusting shim	AR
5	113882	SLINGER, Inner pinion	1
6	113883	BEARING ASSEMBLY, Outer pinion	1
7	113913	SLINGER, Inner pinion bearing	1
8	113884	SEAL, Pinion	1
9	113887	YOKE ASSEMBLY, End, A	1
	113914	• YOKE ASSEMBLY, End, B	1
10	113885	WASHER, Pinion nut	1
11	113886	• NUI, Pinion	1
12	108394	COVER, Carrier	1
13	113888	PLUG, Carrier cover CAP Differential bearing (part of item #1)	
14	ф Ф	CAF, Differential bearing (part of item #1)	
10	Φ 112000	BOLI, Differential Dealing Cap (part of item # 1) BEADING ASSEMBLY Differential	4
17	113012	KIT Differential shim	ΔR
18	113912	SEAL Hub	2
19	113915	BEARING ASSEMBLY Inner wheel	2
20	113916	BEARING ASSEMBLY, Miller wheel	2
21	113918	HUB, Wheel	2
	111719	• STUD, Wheel hub 5/8-18	16
22	113919	STUD, Axle shaft 1/2"	16
23	113920	NUT, Spindle 1/2"	4
24	113921	WASHER, Spindle	2
25	109137	 SHAFT, Flanged axle LH (shown), A 	1
	113922	SHAFT, Flanged axle LH (shown), B	1
26	109137	SHAFT, Flanged axle RH (opposite), A	1
	113923	SHAFT, Flanged axle RH (opposite), B	1
27	113924	ADAPTER, Stud nut	16
28	116801	NUT, Stud	16
29	113926	DIFFERENTIAL ASSEMBLY (Detroit Locker)	1
		(Service parts not available at time of printing)	

FIGURE 6-27. FUEL/TANK HYDRAULIC OIL TANK CABINET ASSEMBLY (31' Models with Serial Number 36066 and Since) (41' Models with Serial Number 40136 and Since)

	3		1
Index No.	Skyjack Part No.	Description	Units per Assy.
1 2 2	109779 108463 103628 101541 111944	WELDMENT, Fuel tank/hydraulic oil tank cabinet DOOR, Hydraulic oil tank access • SEAL, Door (102" total) • HANDLE W/LOCK, Recessed • • KEY, Door #CH501 DOOR, Eucl tank access	1 1 AR 1 AR
5	103628 101541 111944	 SEAL, Door (88" total) HANDLE W/LOCK, Recessed KEY, Door #CH501 	AR 1 AR
4 5	(Ref.)	TANK ASSEMBLY, Fuel	1
6	101632 103472 103999 103978 (Ref.) 101632 103472 103999 103979	 (For components, refer to Figure 6-31, Page 86) BOLT, Hex-hd 3/8-16 x 3/4" lg. WASHER, Flat 3/8" WASHER, Lock 3/8" NUT, Hex 3/8-16 TANK ASSEMBLY, Hydraulic oil (For components, refer to Figure 6-29, Page 84) BOLT, Hex-hd 3/8-16 x 3/4" lg. WASHER, Flat 3/8" WASHER, Lock 3/8" NUT, Hex 3/8-16 	2 2 2 2 1 2 2 2 2 2 2 2 2 2
7	103090	CONDUIT, Convoluted (edge protection) 24" lg.	1

FIGURE 6-28. FUEL/TANK HYDRAULIC OIL CABINET TANK ASSEMBLY (31' Models with Serial Number 36065 and Below) (41' Models with Serial Number 40135 and Below)

	3		1
Index No.	Skyjack Part No.	Description	Units per Assy.
1 2	109779 108463 103628 101541 111944	 WELDMENT, Fuel tank/hydraulic oil tank cabinet DOOR, Fuel tank access SEAL, Door (102" total) HANDLE W/LOCK, Recessed KEY, Door #CH501 	1 1 AR 1 AR
3	108464 103628 101541 111944	 DOOR, Hydraulic oil tank access SEAL, Door (88" total) HANDLE W/LOCK, Recessed KEY, Door #CH501 	1 AR 1 AR
4 5	104104 (Ref.)	CABLE, Door stop TANK ASSEMBLY, Hydraulic oil	2
6	101632 103472 103999 103978 (Ref.) 101632 103472 103999	 (For components, refer to Figure 6-30, Page 86) BOLT, Hex-hd 3/8-16 x 3/4" lg. WASHER, Flat 3/8" WASHER, Lock 3/8" NUT, Hex 3/8-16 TANK ASSEMBLY, Fuel (For components, refer to Figure 6-32, Page 89) BOLT, Hex-hd 3/8-16 x 3/4" lg. WASHER, Flat 3/8" WASHER, Lock 3/8" 	2 2 2 2 1 2 2 2 2 2 2 2
7	103978 103090	 NUI, Hex 3/8-16 CONDUIT, Convoluted (edge protection) 24" lg. 	2

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(41' Models with Serial Number 40136 and Since)			
		MA-	800-67 Units
Index No.	Skyjack Part No.	Description	per Assy.
1 2 3 4 5 6 7 8 9 10 11 12 13	(Ref.) 114337 114337 103964 109568 104254 103857 104000 103980 103236 103339 113454 112187 102918 103320 102694 103959 102961 113118 114378	 TANK ASSEMBLY, Hydraulic oil WELDMENT, Hydraulic oil tank COVER W/SUCTION PIPE, Hydraulic tank SCREW, Machines #10-24 x 1/4" lg. FILTER ASSEMBLY, Return ELEMENT, Filter BOLT, Hex-hd 1/4-20 x 1" lg. WASHER, Lock 1/4" NUT, Hex 1/4-20 GAUGE, Oil level temp PLUG, 3/4P FITTING, Tee FITTING, Tee FITTING, 3/4" Hose barb HOSE, Tank 1" x 10" lg. CLAMP, #16 Gear CAP W/GASKET, Filler/breather SCREW, Machine #10-32 x 1/4" lg. LABEL, Use hydraulic oil NECK, Side filler 	- 1 2 2 2 1 1 1 1 1 1 6 1 1 1

(41' Models with Serial Number 40135 and Below)				
Index No.	Skyjack Part No.	Description	Units per Assy.	
A B 1 2 3	(Ref.) (Ref.) 113321 108460 113320 110036 103959 109568 104254 103857 104000 103980 103236	 TANK ASSEMBLY, Hydraulic oil (Models w/neck mounted filler cap) TANK ASSEMBLY, Hydraulic oil (Models w/cover mounted filler cap) WELDMENT, Hydraulic oil tank, A WELDMENT, Hydraulic oil tank, B COVER W/SUCTION PIPE, Hydraulic tank, A COVER W/SUCTION PIPE, Hydraulic tank, B SCREW, Machine #10-24 x 1/4" lg. FILTER ASSEMBLY, Return ELEMENT, Filter BOLT, Hex-hd 1/4-20 x 1" lg. WASHER, Lock 1/4" NUT, Hex 1/4-20 GAUGE, Oil level temp 	- 1 1 14 1 2 2 2 1	
4 5 7 8 9 10 11 12	103236 103339 110517 108799 102918 103320 102694 103959 102961 113118	 GAUGE, Oil level temp PLUG, 3/4P FITTING, Elbow 90° 1/2P-#6 FITTING, 3/4" Hose barb HOSE, Tank 1" x 10" lg. CLAMP, #16 Gear CAP W/GASKET, Filler/breather SCREW, Machine #10-24 x 1/4" lg. LABEL, Use hydraulic oil NECK, Side filler, A 	1 1 1 1 1 6 1	

FIGURE 6-30. HYDRAULIC OIL TANK ASSEMBLY (31' Models with Serial Number 36065 and Below) (41' Models with Serial Number 40135 and Below)



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FIGURE 6-31. FUEL TANK ASSEMBLY - Gasoline Engines (31' Models with Serial Number 36066 and Since) (41' Models with Serial Number 40136 and Since)

Index No.	Skyjack Part No.	Description	Units per Assy.
1 2 3 4 5 6 7 8 9 10 11 12 13 14	(Ref.) 114371 101358 101360 103339 111403 103155 103321 102984 102960 106694 113399 117691 118682 117691	TANK ASSEMBLY, Fuel (Consists of items 1 and 2) • WELDMENT, Fuel tank • CAP, Filler w/spring • GAUGE, Fuel level PLUG, Drain TUBE, Fuel line CLAMP, Hose HOSE, Fuel tank to fuel filter 3" lg. FILTER, In-line fuel PLUG, Hollow hex 1/4P HOSE, Fuel filter to fuel pump LABEL, Use gasoline only LABEL, Danger, explosion hazard VENT, Fuel tank breather • SCREW, Set 1/4-20 x 1/4" lg. PIPE, Fuel tank, B • SCREW, Set 1/4-20 x 1/4" lg.	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
FIGURE 6-32. FUEL TANK ASSEMBLY - Gasoline Engines (31' Models with Serial Number 36065 and Below) (41' Models with Serial Number 40135 and Below)

			-800-28A
Index No.	Skyjack Part No.	Description	Units per Assy.
1 2 3 4 5 6 7 8 9 10 11 12 13 14	108459 (Ref.) 101358 101359 101360 103339 101447 103155 103321 102984 102764 102932 102984 102960 106694	 TANK ASSEMBLY, Fuel (Consists of items 1 thru 4) WELDMENT, Fuel tank CAP, Filler w/spring BREATHER GAUGE, Fuel level PLUG, Drain TUBE, Fuel line FITTING, Fuel line CLAMP, Hose HOSE, Fuel tank to fuel filter 3" Ig. FILTER, In-line fuel PLUG, Hollow hex 1/4P HOSE, Fuel filter to fuel pump LABEL, Use gasoline only LABEL, Danger, explosion hazard 	- 1 1 1 1 1 1 1 1 1 1

FIGURE 6-33. FUEL TANK ASSEMBLY - Diesel Engines (31' Models with Serial Number 36066 and Above) (41' Models with Serial Number 40136 and Above)

			-800-75A
Index No.	Skyjack Part No.	Description	Units per Assy.
1 2 3 4 5 6 7 8 9 10 11 2 3 14 15 16 17	(Ref.) 114371 101358 113399 117691 101360 103339 111403 103155 103321 102984 102764 103164 103164 102962 106694 118682 117691	 TANK ASSEMBLY, Fuel (Consists of items 1 thru 4) WELDMENT, Fuel tank CAP, Filler w/spring BREATHER SCREW, Set 1/4-20 x 1/4" lg. GAUGE, Fuel level PLUG, Drain TUBE, Fuel line FITTING, Fuel line CLAMP, Hose HOSE, Fuel tank to fuel filter 3" lg. FILTER, In-Line fuel FITTING, Overflow hose 90° elbow FITTING, Hose connector HOSE, Overflow 165" lg. HOSE, Fuel filter to fuel pump 166" lg. LABEL, Use diesel only LABEL, Danger, explosion hazard PIPE, Fuel tank SCREW, Set 1/4-20 x 1/4" lg. 	- 1 1 1 1 1 1 3 1 1 1 1 1 1 1 3

FIGURE 6-34. FUEL TANK ASSEMBLY - Diesel Engines (31' Models with Serial Number 36065 and Below) (41' Models with Serial Number 40135 and Below)

			A-800-29
Index No.	Skyjack Part No.	Description	Units per Assy.
1 2 3 4 5 6 7 8 9 10 11 2 3 14 15 16	108459 (Ref.) 101358 101359 101360 103339 101447 103155 103321 102984 102764 103164 103164 102660 102984 102962 106694	 TANK ASSEMBLY, Fuel (Consists of items 1 thru 4) WELDMENT, Fuel tank CAP, Filler w/spring BREATHER GAUGE, Fuel level PLUG, Drain TUBE, Fuel line FITTING, Fuel line CLAMP, Hose HOSE, Fuel tank to fuel filter 3" lg. FILTER, In-Line fuel FITTING, Overflow hose 90° elbow FITTING, Hose connector HOSE, Overflow 165" lg. HOSE, Fuel filter to fuel pump 156" lg. LABEL, Use diesel only LABEL, Danger, explosion hazard 	- 1 1 1 1 1 1 1 1 1 1 1



FIGURE 6-35. HYDRAULIC/ELECTRIC CABINET ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
1	109789	WELDMENT. Hvdraulic/electric cabinet	1
2	108461	DOOR, Hydraulic component access	1
	103628	SEAL, Foam (102" total)	AR
3	108462	DOOR, Electrical panel access	1
	103628	SEAL, Foam (88" total)	AR
4	116052	CABLE, Door stop (Replaces 104104)	2
5	(Ref.)	MANIFOLD ASSEMBLY, Main	1
		(For components, refer to Figure 6-38, Page 98 or	
		Figure 6-39, Page 100)	
	116107	• STUD, 5/16-18 x 1-1/2" lg.	4
	103404	WASHER, Lock 5/16"	4
	103996	WASHER, Flat 5/16"	4
	100397	• NUT, Hex 5/16-18	4
6	(Ref.)	MANIFOLD ASSEMBLY, Brake	1
		(For components, refer to Figure 6-36, Page 96 or	
		Figure 6-37, Page 97)	_
	103887	• BOLT, Hex-hd 5/16-18 x 3/4" lg.	2
	103404	• WASHER, Lock 5/16"	2
_	103996	• WASHER, Flat 5/16"	2
1	103615	BLOCK, Emergency lowering valve manifold	1
	103860	• BOLI, Hex-nd 1/4-20 x 1-3/4" Ig.	2
	104000		2
0	103995	• WASHER, Flat 1/4"	2
0	107271 (Rof.)	PALVE, Emergency lowering (pull-type)	1
9	(nel.)	(Ear components, refer to Figure 6.42, Page 104)	
	103864	• BOLT Hey-bd $5/16-18 \times 1^{\circ}$ la	1
	103404	WASHER Lock 5/16"	4
	100397	 NUT Hex 5/16-18 	4
10	103295	BATTERY 12 Volt	1
11	108795	PLATE Battery mounting	1
	103887	 BOLT. Hex-hd 5/16-18 x 3/4" la. 	2
	103404	 WASHER, Lock 5/16" 	2
	103984	• NUT, Lock 5/16-18	2
	103628	• SEAL, Rubber 5-3/4" lg.	AR
12	103105	BLOCK, 16 Pole terminal (replaces 103104)	1
	103962	• SCREW, Machine #10-32 x 1/2" lg.	2
13	108170	BAR, Double terminal spade	AR
14	119726	SWITCH, Power off/on (replaces 102601)	1
15	105600	BOOT, Switch terminal	1
16	(Ref.)	CABLE ASSEMBLY, Battery to power switch	1
	104533	CABLE, #2 Battery	1
17	(Ref.)	SWITCH, Tilt (Optional)	1
		(Refer to Figure 6-42, Page 104)	
	103855	• BOLT, Hex-hd 1/4-20 x 1/2" lg.	2
	104000	WASHER, Lock 1/4"	2
		NOTE: Parts list continued on Page 95.	

FIGURE 6-35. HYDRAULIC/ELECTRIC CABINET ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
		NOTE: Parts list continued from Page 93.	
18 19 20 21 22	103090 112125 108675 107898 111282 103855 103995	CONDUIT, Edge protection PLYWOOD, 6-1/2" x 12" x 3/8" thk. PROTECTION, Cable 72" lg. (6" total) ADAPTER, Marine battery terminal FUSE, 100 Amp • BOLT, Hex-hd 1/4-20 x .5 • WASHER, Flat	1 2 AR 2 1 2 2
23	104000 103068 103995 103855	 WASHER, LOCK INSULATOR, Fuse WASHER, Flat 1/4" BOLT Hey-bd 	2 2 2 2
24	111787 104698 104185 104003 104694	CONTACTOR, 12 Volt • BOLT, Machines #10-32 .75" lg. • WASHER, Lock #10 • NUT, Machine #10-32 • WASHER, Flat #10	1 2 2 2 2
25	113846	• LABEL, Manual brake release	1

FIGURE 6-36. AUTO RESET BRAKE MANIFOLD ASSEMBLY (31' Models With Serial Number 36054 and Above) (41' Models With Serial Number 40110 and Above)

	(2)		МА-600-33
Index No.	Skyjack Part No.	Description	Units per Assy.
1 2 3 4 5 6 7 8	(Ref.) 111943 110554 102659 102626 103613 110652 113752 103070	 MANIFOLD ASSEMBLY, Auto reset brake (Order components) BLOCK, Manifold, Auto reset brake FITTING, Run tee #8orb-#8-#8 FITTING, Connector #8orb-#8 VALVE, N.O. (brake) COIL, 12 Volt PUMP, Cavity hand VALVE, Auto reset FITTING, Connector #8orb-#6 	1 1 1 1 1

FIGURE 6-37. QUICK BRAKE MANIFOLD ASSEMBLY (31' Model With Serial Number 36053 and Below) (41' Models With Serial Number 40109 and Below)

	4	<image/> <image/>	4-800-23
Index No.	Skyjack Part No.	Description	Units per Assy.
1 2 3 4 5 6 7 8	(Ref.) 110643 104437 110652 102659 104132 110655 103613 103073	 MANIFOLD ASSEMBLY, Quick brake (Order components) BLOCK, Brake manifold PLUG, Hex-soc #6orb PUMP, Hand FITTING, Connector #8orb-#8 VALVE, N.C. (brake lock) VALVE W/MANUAL OVERRIDE, N.O. (quick brake) COIL, 12 Volt valve FITTING, Elbow 90° #6orb-#6 	- 1 1 3 1 1 2 1



FIGURE 6-38. MAIN MANIFOLD ASSEMBLY (Later Models with #10 Large Pump Dump Valve)

Index No.	Skyjack Part No.	Description	Units per Assy.
	114367	MANIFOLD ASSY. Main	_
1	114178	BLOCK, Main manifold	1
2	103397	VALVE ASSY., 12V spool (steer)	1
	107440	COIL, 12 Volt (Vickers)	2
	104345	CONNECTOR, Gray	1
	104409	CONNECTOR, Black	1
	103920	 BOLT, Soc-hd #10-24 x 2" lg. 	4
3	103396	VALVE ASSY., 12V spool (drive)	1
	107441	COIL, 12 Volt (Vickers)	2
	104345	CONNECTOR, Gray	1
	104409	CONNECTOR, Black	1
	103943	 BOLT, Soc-hd 1/4-20 x 2" lg. 	4
4	103655	VALVE, #8 N.C. (brake dump)	1
5	103655	• VALVE, #8 N.C. (lift)	1
6	103655	VALVE, #8 N.C. (lowering)	1
7	103656	 VALVE, #8 N.O. (brake feed) 	1
8	103656	• VALVE, #8 N.O. (small pump dump)	1
9	114365	VALVE, #10 N.O. (large pump dump)	1
10	103613	• COIL, 12 Volt	5
11	104534	VALVE, Relief	2
12	104624	VALVE, Pilot check ODIFIOE I superiore 100 slignester	3
13	112893	• ORIFICE, Lowering .120 diameter	
		(31 models with serial number 36542 and below)	
14	110107	(41 models with senai number 41989 and below)	4
14	102650	FITTING, HOSE barb #12010-3/46	
10	102009	FITTING, Connector #60rb #6	4
17	102659	FITTING, Connector #8orb #8	1
18	102039		1
10	122/10	ASSEMBLY Quick Disconnect (System Pressure)	1
	122415	Order Entire Assembly for Machines with Serial # 36924 (8831)	'
		41960 (8841) and below.	
	122365	• • FITTING. Elbow 90° #6-#6	1
	122385	COUPLER. Quick	1
	114521	CAP, Dust	1
20	122418	ASSEMBLY, Quick Disconnect (Lift Pressure)	1
		Order Entire Assembly for Machines with Serial # 36924 (8831),	
		41960 (8841) and below.	
	122366	• • FITTING, Tee #8-#8-#6	1
	122385	COUPLER, Quick	1
	114521	CAP, Dust	1
21	104437	PLUG, Manifold #6orb	2
22	103070	FITTING, Connector #8orb-#6	1
23	104437	PLUG, Manifold #6 orb	2
		(Machines w/o Outrigger Option)	
	103073	• FITTING, Elbow 90° #6orb - #6	2
		(Machines w/Outrigger Option)	

FIGURE 6-39. MAIN MANIFOLD ASSEMBLY (Early Models Without #8 Large Pump Dump Valve)



FIGURE 6-39. MAIN MANIFOLD ASSEMBLY (Early Models Without #8 Large Pump Dump Valve)

Index No.	Skyjack Part No.	Description	Units per Assy.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	110586 108009 103397 107440 104345 104409 103920 103396 107441 104345 104409 103943 103655 103655 103655 103656 103656 103656 103656 103656 103656 103656 103656 103656 103656 103656 103656 103656 103655 103655 103655 103655 103655 103655 103656 103656 103656 103656 103656 103656 103656 103655 103655 103655 103655 103655 103655 103655 103655 103656 103656 103656 103656 103656 103655 103655 103655 103655 103655 103655 103656 103656 103656 103656 103655 103655 103655 103655 103655 103655 103655 103656 103656 103656 103656 103656 103656 103656 103656 103655 103655 103655 103655 103655 103656 103656 103656 103656 103656 103656 103655 103655 103655 103656 103659 104427 104402 104437 104630	MANIFOLD ASSEMBLY, Main (Consists of items 1 thru 20) BLOCK, Main manifold VALVE ASSEMBLY, 12 Volt spool (steer) COIL, 12 Volt spool valve CONNECTOR, Gray CONNECTOR, Black BOLT, Soc-hd #10-24 x 2" Ig. VALVE ASSEMBLY, 12 Volt spool (drive) COIL, 12 Volt spool valve CONNECTOR, Gray CONNECTOR, Black BOLT, Soc-hd 1/4-20 x 2" Ig. VALVE, N.C. (brake feed) VALVE, N.C. (brake feed) VALVE, N.C. (lorake feed) VALVE, N.C. (lorake dump) VALVE, N.C. (lorake dump) VALVE, N.O. (small pump dump) VALVE, N.O. (small pump dump) VALVE, N.O. (small pump dump) VALVE, RIO. (large pump dump) COIL, 12 Volt valve VALVE, Relief VALVE, Relief VALVE, Relief FITTING, Connector #6orb-#8 PLUG, Hex-soc #10orb (cavity) FITTING, Connector #8orb-#8 FITTING, Connector #8orb-#8 FITTING, Connector #8orb-#8 FITTING, Connector #8orb-#8 FITTING, Elbow 90° #6orb-#6 FITTING, Hex-soc #6orb (port) ORIFICE, Lowering .096 diameter Items 21 and 22 are for machines with Outrigger Option.	1 1 2 1 4 1 2 1 4 1 1 4 1 1 1 6 2 3 1 1 4 4 1 8 7 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 1 4 1
21 22	103069 103073	FITTING, Connector #6orb-#6 FITTING, Elbow 90° #6orb-#6	1





FIGURE 6-41. HYDRAULIC HOSE CONNECTIONS - Brake Manifold (31' Models With Serial Number 36053 and Below) (41' Models With Serial Number 40109 and Below)





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FIGURE 6-42. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY

Index No.	Skyjack Part No.	Description	Units per Assy.
1	109792	PANEL Base control/electrical	1
2	116290	HARNESS, Panel wiring	1
		(31' Models with Serial Number 36208 and Since)	
		(41' Models with Serial Number 40509 and Since)	
	111277	HARNESS, Panel wiring	1
		(31 [°] Models with Serial Number 36206 and Below)	
3	117051	CABLE ASSEMBLY Engine electrical	1
0	117031	(31' Models with Serial Number 36295 and Since)	1
		(41' Models with Serial Number 40699 and Since)	
	115664	• CABLE, 14/12	220"lg.
	117587	CONNECTOR, 12 pole female	1
	115497	CABLE ASSEMBLY, Engine electrical	1
		(31' Models with Serial Number 36140 to 36294)	
	115664	(41 Models with Serial Number 40343 to 40698)	000" Ia
	115668	CABLE, 14/12 CONNECTOR 12 note male	220 ig.
	117593	• • PIN, 14-16 ga.	1
	117594	PLUG, Sealing	3
	111150	CABLE, Éngine electrical	1
		(31' Models with Serial Number 36139 and Below)	
		(41' Models with Serial Number 40342 and Below)	
	115664	CABLE, 14/12 CONNECTOR & Pole female	220″ lg.
	103310	CONNECTOR, o Pole lemale PIN Female	
4	114484	CABLE ASSEMBLY, Electrical panel, 16 pole female	1
		(No Options)	
		Replaces cable w/28 pole round connector by	
		also ordering (1) Connector 114478)	
	115274	• CABLE, 18/30	70" lg.
	114477	CONNECTOR ASSEMBLY, 16 pole female (Depleted 29 pole round connector by close)	
		(Replaced 26 pole found connector, by also ordering (1) Connector 11/4/78)	
	115284	CABLE ASSEMBLY Electrical panel 32 pole female	1
		(w/Options)	
		Replaces cable 28 pole round Connector by also	
		ordering (1) Connector 114475)	
	115274	• CABLE, 18/30	70" lg.
	114476	CONNECTOR ASSEMBLY, 32 pole female (Deplaces 20 pole round connector by clear	1
		(Replaces 28 pole round connector by also ordering (1) Connector 114475)	
5	105657	DIODE ASSEMBLY W/2 DIODES	1
Ŭ	102921	• DIODE. 6 Amp	2
6	102479	SOCKET, Single relay	AR
7	103271	SOCKET, Double relay	AR
8	111958	SOCKET, Triple relay	1
		(31' Models with Serial Number 36209 and Below)	
		(41 WODEIS WITH SETIAL NUMBER 40547 and BEIOW)	
		Parts list continued on the following page.	

FIGURE 6-42. BASE CONTROL/ELECTRICAL PANEL ASSEMBLY (Continued)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
9	104313	DIODE ASSEMBLY W/4 DIODES	1
	102921	DIODE, 6 Amp	4
10	103316	RELAY, Single 12V SPDT	AR
11	103207		AR
12	111956	(21' Models with Social Number 26200 and Polow)	
		(41' Models with Serial Number 40547 and Below)	
13	102921	DIODE, 6 Amp	AR
14	103336	HOURMETER	1
15	102874	TRACK, Relay 13" lg.	2
	102986	CLIP, Relay mounting	AR
16	117326	BREAKER, 20 Amp circuit (Replaces 114584 &102331)	2
17	(Ref.)	SWITCH ASSEMBLY, Up push-button	1
	102851	HEAD, Push-button switch	1
	103100	BASE, Contact	1
10	103141 (Def.)	BLOCK, N.U. Contact SWITCH ASSEMBLY, Down puck button	1
18	(Rel.) 102851	HEAD Push button switch	1
	102001	BASE Contact	1
	103141	BLOCK, N.O. Contact	1
19	102509	CLAMP. Plastic (flasher)	1
20	103743	FLASHER, 12 Volt	1
21	103081	LABEL, Up	1
22	102667	LABEL, Down	1
23	103319	CAPACITOR, 35 Volt, 1000UF	1
24	103011	BLOCK, Terminal strip	2.5
25	(Kef.)	CORD ASSEMBLY, THIT SWITCH (DEUTSCH)	1
	117570	CONDECTOR 4 note female	40 lg.
	117581	WEDGE Connector 4 pole	1
	117591	SOCKET. Connector contact	3
	117594	PLUG, Connector sealing	1
	(Ref.)	CORD ASSEMBLY, Tilt switch	1
	103257	• CORD, 18/3	40" lg.
	113203	CONNECTOR, 3 pole	1
	103049	• SOCKEI, Female	3
26	(Ket.)	WIRE ASSEMBLY, Thit switch jumper	1
	117580	WEDGE Connector 4 pole	1
	117594	PILIG Connector sealing	2
	117590	PIN. Connector contact	2
	(Ref.)	WIRE ASSEMBLY, Tilt switch jumper	1
	113202	CONNECTOR, 3 Pole (Tilt switch jumper)	1
	102897	PIN, Male	2
27	117880	SWITCH ASSEMBLY, Tilt	1
		(Replaces 106471 by also ordering	
	447445	adapter cable 11/145)	4
	11/145	• GADLE ASSEMIBLY, AUAPLER	



FIGURE 6-43. ENGINE ROLL-OUT TRAY ASSEMBLY (Machines With Side Handle Tray Latch)

Index No.	Skyjack Part No.	Description	Units per Assy.
1	115220	WELDMENT, Engine roll-out tray	1
	102780	LATCH, Engine tray	1
2	111351	ROLLER, Engine tray	4
	116555	KIT, Engine tray roller shim	AR
	116620	 SHIM, 7/8" x 1-3/16 x 1/8" thk. 	2
	116621	• • SHIM, 7/8" x 1-3/16 x 1/16" thk.	
3	115404	GUARD, Engine front	1
		(Replaces 112725 & 107665)	
4	103232	PIN, Clevis 1/2" x 1-3/4" lg.	2
5	103055	PIN, Cotter 1/8" x 2-1/4" lg.	2
6	(Ref.)	LATCH ASSEMBLY, Front cover	1
	102781	 LATCH, Front cover (blue spring) 	1
	103864	• • BOLT, Hex-hd 5/16-18 x 1-1/2" lg.	3
	111534	• KNOB, Latch	1
	103855	• • BOLI, Hex-hd 1/4-20 x 1/2" lg.	1
_	104000	• • WASHER, Lock 1/4"	1
1	115229		
	115459	INSULATION, Soundproofing (rear) INSULATION, Soundproofing (Liberday)	
	115460	INSULATION, Soundproofing (LH side) INSULATION, Soundproofing, (DL side)	
	115461	INSULATION, Soundproofing (RH side) INSULATION, Soundproofing (Front)	1
0	115462	INSULATION, Soundproofing (Front)	1
•	103913	BOLI, ITAY SIOP 3/0-10 X 4 Ig.	1
a	112307	LATCH LH Engine	1
3	103886	 BOLT Hey-bd 5/16-18 x 1-1/2" la 	2
10	112308	ATCH BH Engine	1
10	103886	 BOLT Hey-hd 5/16-18 x 1-1/2" la 	2
11	116133	HANDLE TH	1
	116136	 SCREW. Shoulder 1/4 x 3/8 	1
	116135	SCREW, Shoulder 1/4 x 1/4	3
	112378	• WASHER, Brass 17/64 ID x 15/32 OD	1
12	116132	• HANDLE, RH	1
	116136	SCREW, Shoulder 1/4 x 3/8	1
	116135	SCREW, Shoulder 1/4 x 1/4	1
	112378	 WASHER, Brass 17/64 ID x 15/32 OD 	1
13	116733	GUARD, Radiator (Ford engine only)	1
14	116494	BUMPER, Vibrations	
		1	



FIGURE 6-44. ENGINE ROLL-OUT TRAY ASSEMBLY (Machines With T-Handle Tray Latch)

Index No.	Skyjack Part No.	Description	Units per Assy.
Α	(Ref.)	TRAY ASSEMBLY, Engine roll-out (Later models with base frame mounted engine	-
В	(Ref.)	TRAY ASSEMBLY, Engine roll-out (Earlier models with radiator mounted engine cover)	-
1	112617 111341 102780	 WELDMENT, Engine roll-out tray, A (shown) WELDMENT, Engine roll-out tray, B LATCH, Engine tray 	1 1 1
2	111351	ROLLER. Engine trav	4
3	115404	GUARD, Engine front (Replaces 107665)	1
4	103232	PIN, Clevis 1/2" x 1-3/4" lg.	2
5	103055	PIN, Cotter 1/8" x 2-1/4" lg.	2
6	(Ref.) 102781 103864 111534 103855	 LATCH ASSEMBLY, Front cover LATCH, Front cover (blue spring) BOLT, Hex-hd 5/16-18 x 1" lg. KNOB, Latch BOLT, Hex-hd 1/4-20 x 1/2" lg. 	1 1 3 1 1
	104000	WASHER, Lock 1/4"	1
7	112640	COVER. Engine. A	1
	112639	 INSULATION, Soundproofing (rear) 	1
	112755	INSULATION, Soundproofing (LH side)	1
	112756	INSULATION, Soundproofing (BH side)	1
8	110038	COVER, Engine B	1
q	103913	BOIT Tray stop $3/8-16 \times 4^{\circ}$ lo	2
	104606	 NUT Lock 3/8-16 	2
10	112747		1
11	112747	PINI Tray release, A	1
10	112647	SPRING Comprossion	1
12	105212	GUDE Spring A	
13	105312	GOIDE, Spring, A	







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SJ-800 Series Engine Powered 112114AE

FIGURE 6-47. ENGINE AND RELATED PARTS - Kubota Gasoline Engine

Index No.	Skyjack Part No.	Description	Units per Assy.
	(Ref.)	ENGINE ASSEMBLY, Kubota gasoline (Current models) (Consists of items 1.5.8 - 10.19.26 - 40, 48 - 50)	-
	(Ref.)	ENGINE ASSEMBLY, Kubota gasoline (Later models) (Consists of items 1 thru 13 and 15 thru 28)	-
	(Ref.)	ENGINE ASSEMBLY, Kubota gasoline (Earlier models) (Consists of items 1, 5, 6, 8, 9, 10 and 14 thru 21)	-
1	102840	 ENGINE, Kubota gasoline (#WG-750) 	1
	115297	• • GEAR, Ring (Aluminum housing)	1
	115298	GEAR, Ring (Cast housing)	1
	115304	PUMP, Fuel	1
	115305	SOLENOID, Fuel shut-off	1
	115309	• STARTER ASSEMBLY	1
	115314	• • CLUTCH, Starter	1
	115329	ALTERNATOR ASSEMBLY	1
	115330	FLANGE, Air cleaner	1
	115331	ELEMENT, Air filter	1
	115337	• • FILTER, Oil	1
	115341	RADIATOR	1
	115342		1
	115343	• • IGNITOR, Distributor	
	115344	• • GASKEI, Distributor	AR
	115345	• • ROTOR, DISTRIBUTOR	1
	115378	• • CAP Air cleaner	1
	115370	BAND Air cleaner support	1
	115386	COVER Air cleaner	1
2	113208	WEI DMENT Engine mounting LH	1
3	113207	WELDMENT, Engine mounting RH	1
4	115292	HOUSING. Bell	1
5	114201	PUMP, Dual Hydraulic	1
6	(Ref.)	COUPLING ASSEMBLY, Pump/engine	1
	111831	COUPLING, Pump (3/4" dia. w/keyway)	1
	103025	SPIDER, Coupling	1
	101465	COUPLING, Engine (7/16" bore)	1
7	112748	MOUNT, Engine vibration	4
8	110594	BRACKET, Choke solenoid	1
9	103007	SOLENOID, Engine choke	1
10	103007	SOLENOID, Engine throttle	1
11	113328	BHACKE I, I hrottle solenoid/fuel pump	1
12	113336	BHACKEI, Hose carrier support	1
13	101981	PLATE, Engine to coupling adapter	1
14	101442	PLATE, Pump mounting WELDMENT Engine mounting	1
10	101000	WELDIVIENT, Engine mounting EH WELDMENT Engine mounting PH	
17	111/00	WELDIVIENT, ENGINE MOUNTING R WELDIVIENT, ENGINE MOUNTING R WELDIVIENT, ENGINE MOUNTING R	1
	111400		
		Parts list continued on the following page.	

FIGURE 6-47. ENGINE AND RELATED PARTS - Kubota Gasloine Engine (Continued)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	101982 101860 109019 111427 111429 113853 111395 113852 113860 114199 113224 113638 113653 113997 113582 116031 114455 114527 114422 102838 103078 114682 113653 116294 114489 113407 114708 114737 114032 114736 112565 113955 113956 114216 115294	 BRACKET, Throttle solenoid LINKAGE, Solenoid 1/2" diameter LINK, Throttle BRACKET, Radiator support PLATE, Fuel pump mounting BRACKET, Carrier CARRIER ASSEMBLY, Hose (17 links) CARRIER ASSEMBLY, Hose (18 links) LINK, Hose carrier SEPERATOR, E-Chain BRACKET, LP Regulator mounting (Dual Fuel) PIPE, Exhaust CLAMP, 1-1/8" Exhaust HOSE ASSEMBLY, Air intake STOP, Solenoid BRACKET, Engine mounting RH BRACKET, Engine mounting LH NEOPRENE, Anti-vibration SWITCH, Oil pressure CLAMP, 610 CLAMP, # 8 CLAMP, 1-1/8" Exhaust SUPPORT, Radiator BRACKET, Carrier support LAMYARD U-BOLT, 1/4" FITTING, Brass elbow BRACKET, Fuel mount FITTING, Hose barb MUFFLER GASKET, Muffler BRACKET, Muffler BRACKET, Muffler BRACKET, Muffler BRACKET, Muffler NOTE: For Dual Fuel System components, refer to Figure 6-49, Page 122. 	1 2 1 1 2 1 1 AR 1 2 1 1 1 1 2 1 5 1 2 1 1 1 1 1 1 1 1 1



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FIGURE 6-48. ENGINE AND RELATED PARTS - Ford Gasoline Engine

Index	Skyjack	Description	Units
No.	Part No.		Assy.
	(Ref.)	ENGINE ASSEMBLY, Ford gasoline	-
1	115669	ENGINE, Ford gasoline (VSG 1.3)	1
	117107	GEAR, Ring	1
	117108	SOLENOID, Fuel shut-off	1
	117109	STARTER ASSEMBLY	1
	117110	• • CLUTCH, Starter	1
	117111	ALTERNATOR ASSEMBLY	1
	117112	FLANGE, Air cleaner	1
	117113	• • ELEMENI, Air filter	1
	11/114	• • FILLER, OIL	1
	11/115		1
	11/116	• • CONTROLLER, ESC	1
	117110	• • CAP, Air cleaner	1
	117110	• • COVER Air cleaner	1
	117120		1
	117110	PICK-UP Tach	1
2	115746	FORD EXHAUST ASSEMBLY	1
3	114930	• TUBE Exhaust	1
4	115483	• • BRACKET. Exhaust	1
5	102287	• CLAMP. Exhaust tube	1
6	102286	• • MUFFLER	1
7	115744	ELBOW, Muffler	1
8	115422	ADAPTOR, Ford exhaust	1
	115745	• • • BOLT, M10 1 1/2" x50	2
	104636	• • • WASHER, Lock 7/16"	2
9	117123	HOUSING, Bell	1
10	110460	PUMP, Dual Hydraulic	1
11	(Ref.)	 COUPLING ASSEMBLY, Pump/engine 	1
	117125	• • COUPLING, Pump	1
	117126	FLANGE, Flywheel	1
12	115221	MOUNI, Engine vibration	4
13	115534	FORD CHOKE ASSEMBLY	1
14	115064	SOLENOID, Engine choke MOUNT Ford oboke	1
10	115204	POLLER Ford choke	1
17	116467		1
18	116031	• • SWIVEL Solenoid	1
19	101860	INK Throttle attach	1
20	115482	WEI DMENT, Cable carrier	1
21	113853	BRACKET. Carrier	2
		Parts list continued on the following page.	

FIGURE 6-48. ENGINE AND RELATED PARTS - Ford Gasoline Engine

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
22 23 24 25 26 27	111395 115913 116484 115914 115448 115387	 CARRIER ASSEMBLY, Hose (17 links) ACTUATOR, Ford WELDMENT, Ford actuator CONTROLLER, Precision Govenor WELDMENT, Precision Govenor controller PUMP, Fuel NOTE: For Dual Fuel System components, refer to Figure 6-51, Page 128.	1 1 1 1 1
28 30 31 32 33 34	115214 104528 115901 115902 115899	 HOSE, Air intake CLAMP, Hose JOINT, Throttleball (carb) ROD, 1/4-28 x 9" Ig. JOINT, Throttleball (actuator) ARM, Actuator NOTE: For Dual Fuel System components, refer to Figure 6-51, Page 128.	1 1 1 1 1 1



FIGURE 6-49. DUAL FUEL SYSTEM - Kubota Gasoline Engine

Index No.	Skyjack Part No.	Description	Units per Assy.
1	103028	TANK W/COUPLING, 33 Lb. Propane	1
2	103006	COUPLING. Quick attach LPG	1
3	103159	FITTING Flbow 45° (brass)	1
4	103098	HOSE ASSEMBLY, LPG 42" la.	1
5	103156	FITTING Connector (brass)	1
6	111619	FILTER, LPG Bulkhead	1
7	103164	FITTING Flbow 90° (brass)	2
8	111620	VALVE ASSEMBLY, Relief	1
	111622	RAIN CAP. Relief valve	1
9	103158	FITTING, Elbow 90° (brass)	2
10	113648	HOSE ASSEMBLY, LPG 132" lg. (Later models)	1
	103097	HOSE ASSEMBLY, LPG 144" lg. (Earlier models)	1
11	111618	VALVE ASSEMBLY, Propane lockoff	1
12	111629	VAPORIZER/REGULATOR, LPG	1
13	103168	FITTING, Connector (brass)	1
14	103321	CLAMP, Gear #4	14
15	103178	FITTING, Tee (brass)	1
16	KUBOTA	HOSE, Coolant (Kubota Part)	1
17	111632	ADAPTER AND VALVE, Carburetor	1
18	111623	SWITCH, Vacuum safety	1
19	103163	FITTING, Tee (brass)	1
20	103165	FITTING, Plug 1/8P	1
21	100385	FITTING, Reducer #6P-#4P	1
22	103174	FITTING, Elbow 90° (brass)	2
23	111630	HOSE, Coolant	AR
24	KUBOTA	FUEL PUMP (Kubota Part)	1
25	103154	FITTING, Connector (brass)	2
26	111626	VALVE ASSEMBLY, Gasoline lockoff	1
27	102984	HOSE, Fuel line 16" lg.	1
28	(Ref.)	HOSE, Fuel line 158" lg. (Befer to Figure 6-27.)	1
29	103161	FITTING, Connector (brass) (Earlier models)	1
30	103153	FITTING, Elbow 90° (brass) (Later models)	1
31	111631	HOSE, Regulator to carburetor	1
32	103164	FITTING, Elbow 90° (brass) (Earlier models)	1
L	1	1	1



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FIGURE 6-50. ENGINE AND RELATED PARTS - Kubota Diesel Engine

Index No.	Skyjack Part No.	Description	Units per Assy.
	(Ref.)	ENGINE ASSEMBLY, Kubota diesel (Current models) (Consists of items 1,4,5,8,10,12,26 thru 35)	-
	(Ref.)	ENGINE ASSEMBLY, Kubota diesel (Later models) (Consists of items 1 thru 12)	-
	(Ref.)	ENGINE ASSEMBLY, Kubota diesel (Consists of items 5, 6, 7, 10 and 12 thru 23) (Machines with serial number 30036 and below)	-
1	112696 115457	 ENGINE, Kubota diesel (D1105-E) STABTER ASSEMBLY 	1
	115839	ALTERNATOR ASSEMBLY SHUTDOWN SOLENOID	1
2	116666 112788	 WELDMENT, Engine mounting LH, (Current) WELDMENT, Engine mounting LH, (Later) 	1
3	116668 112789	 WELDMENT, Engine mounting RH, (Current) WELDMENT, Engine mounting RH, (Later) 	1
	116983 116995	 BOLT, Hex-hd 12m x 1.75 x 40mm WASHER, Lock 12m 	4
4	116996 115293	 WASHER, Flat 12m HOUSING, Bell 	4
5	110460 (Bef.)	 PUMP, Hydraulic COUPLING ASSEMBLY Pump/engine 	1
	111831	 COUPLING, Pump (3/4 dia. w/keyway) SPIDER Coupling 	1
7	101845	 COUPLING, Engine (7/16" bore) MOUNT Engine vibration 	1
8	112769	BRACKET, Throttle solenoid BRACKET, Muffler	1
10	103007	SOLENOID, Engine throttle	1
12	101981	 PLATE, Engine to coupling adapter ENGINE, Kubata diagal (DL 050) 	1
13	102429	 ENGINE, Rubbla diesei (DH-950) (31' Models with Serial Number 36017 and Below) (41' Models with Serial Number 40038 and Below) 	
	115456	 STARTER ASSEMBLY SHUTDOWN SOLENOID 	1
14	101442	 PLATE, Pump mounting WELDMENT Engine mounting LH (Earlier) 	1
16	102258	 WELDMENT, Engine mounting EH, (Earlier) WELDMENT, Engine mounting RH, (Earlier) WELDMENT, Hose carrier support. 	1
18	102247	SUPPORT, Throttle bar pivot	1
20	101860	 LINKAGE, Solenoid 1/2" diameter DACKET Dediator support 	1
21	111425	 BRACKET, Throttle solenoid ON Sole Solenoid 	1
23	113853	BRACKET, Carrier	2
		Parts list continued on the following page.	

FIGURE 6-50. ENGINE AND RELATED PARTS - Kubota Diesel Engine

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
25 26 27 28 29 30 31 32 33 34 35	111395 113852 113860 114199 114527 114455 114455 114422 102838 103078 114682 113407 113653 115296 115295	CARRIER ASSEMBLY, Hose (17 links) CARRIER ASSEMBLY, Hose (18 links) • LINK, Hose carrier • SEPERATOR, E-Chain • BRACKET, Engine mounting LH • BRACKET, Engine mounting RH • NEOPRENE, Anti-vibration SWITCH, Oil pressure CLAMP, G10 CLAMP, G8 • BRACKET, Carrier support CLAMP, 1-1/8" Exhaust HUB, Pump coupling FLANGE, Nylon flywheel	1 18 AR 1 2 1 5 1 1 1 1
36	116657 116658	TUBE, Engine mount support LH (31' Model with Serial Number 36352 and Above) (41' Model with Serial Number 40806 and Above) TUBE, Engine mount support LH (31' Model with Serial Number 36257 to 36351) (41' Model with Serial Number 40594 to 40805)	1
37	116658 116997 116995 116996	 TUBE, Engine mount support RH (31' Model with Serial Number 36257 and Above) (41' Model with Serial Number 40594 and Above) BOLT, Hex-hd 12m x 1.75 x 40mm WASHER, Lock 12m WASHER, Elat 12m 	1 4 4 4
38 39 40 41 42	116996 116982 116183 112922 104528 113650	 WASHER, Flat 12m ISOLATION MOUNT, Engine vibration PIPE, Exhaust (replaces 112921) HOSE, Air intake CLAMP, Air intake hose CLAMP, Exhaust pipe 	4 1 1 4 2



FIGURE 6-51. DUAL FUEL SYSTEM - Ford Gasoline Engine

FIGURE 6-51. DUAL FUEL SYSTEM - Ford Gasoline Engine

Index	Skyjack	Description	Units
No.	Part No.		Assy.
4	102020		-
1	103028	COUPLING, 33 LD. Propane	1
2	103000	EITTING, Elbow 45° (brase)	1
3	102009	HOSE ASSEMBLY LDC 40" In	1
4	103090	FITTING Connector (brass)	1
6	115915	DIALELEL KITASSEMBLY	1
0	110010	(Consists of Itoms 7.9.9.10.11)	1
7	111610	• FILTER LPG Bulkhead	1
	111623	SW/ITCH Vacuum safety	1
q	111620		1
10	117122	ADAPTOB AND VALVE Carburgator	1
11	111618	VALVE ASSEMBLY Propage lockoff	1
12	115820	BBACKET LPG Begulator mount	1
13	115387		1
14	103164	FITTING Flbow 90° (brass)	2
15	102764	FILTER Gas	1
16	103321	CLAMP Gear #4	6
17	102984	HOSE Fuel line 3" la	1
18	102984	HOSE, Fuel line 160" la.	1
19	111403	HOSE, 5/16- 26" la.	1
20	103155	FITTING. Connector	1
21	103097	HOSE ASSEMBLY, LPG 144" la.	1
22	113467	FITTING, 90° Fuel pump	1
23	103154	FITTING, Connector (brass)	1
24	102838	SWITCH, Oil pressure	1
25	115804	FITTING, Connector (brass)	1
26	113313	FITTING, Pipe (brass)	1
27	115805	FITTING, Tee (brass)	1
28	103169	FITTING, Elbow 90° (brass)	4
29	115806	FITTING, Connector (brass)	2
30	115812	HOSE, Coolant 10" lg.	1
31	115812	HOSE, Coolant 11" Ig.	1
32	115812	HOSE, Coolant 7" Ig.	1
33	102984	HOSE, Fuel line 20" lg.	1
34	103158	FITTING, Elbow 90° (brass)	1
35	115810	FITTING, Reducer 3/8P - 1/4P	2
36	115813	HOSE, LPG 10" lg.	1
37	115260	ADAPTER, Intake	1
	116611	BOLT, Hex-hd M6 x 120mm lg.	3
	117028	WASHER, Lock	4
38	113313	FITTING, Brass	1
39	116342	CLAMP, Gear #8	4


FIGURE 6-52. BASE CONTROL BOX OPTION

Index No.	Skyjack Part No.	Description	Units per Assy.
Α	(Ref.)	BASE CONTROL BOX ASSEMBLY	-
	(*****)	(Later models with toggle up/down switch)	
В	(Ref.)	BASE CONTROL BOX ASSEMBLY	-
		(Early models with rotary up/down switch)	
1	115538	• BOX, Base control, A	1
2	108328	LABEL, Platform up/down	1
3	102451	LABEL, Platform/base select	1
4	111814	 LABEL, Emergency stop (Replaces 105351) 	1
5	102853	• SWITCH, Toggle, A	1
6	111181	GUARD, Toggle switch, A	1
7	(Ref.)	SWITCH ASSEMBLY, Emergency stop	1
	102769	HEAD, Stop switch	1
	103100	BASE, Contact	1
	103225	BLOCK, N.C. Contact	1
8	103041	STRAIN RELIEF, Cord 1/2"	1
9	103260	CABLE, 18/5 x 144" lg.	1
10	(Ref.)	SWITCH ASSEMBLY, Platform/base select	1
	102754	HEAD, Key selector switch	1
	104466	• KEY, #455	AR
	120294	BASE ASSEMLBY, Contact	1
	120292	BLOCK, N.O. Contact (replaces 103100)	1
	120293	BLOCK, N.C. Contact (replaces 103225)	
11	(Ref.)	SWITCH ASSEMBLY, Platform up/off/down	1
	102837	HEAD, Selector Switch DASE Contest	1
	103100	BASE, CONTACT	
10	112062	BLOCK, N.O. CONIDCI	
12	112903	• DOA, Base control, B	1
L	1	1	



FIGURE 6-53A. HYDRAULIC OUTRIGGER OPTION - Leg Assembly (31' Models with Serial Numbers 36381 and Above) (41' Models with Serial Numbers 40841 and Above)

FIGURE 6-53A. HYDRAULIC OUTRIGGER OPTION - Leg Assembly (31' Models with Serial Numbers 36381 and Above) (41' Models with Serial Numbers 40841 and Above)

Index No.	Skyjack Part No.	Description	Units per
			Assy.
A	(Ref.)	OUTRIGGER OPTION	-
B	(Ref.)	OUTRIGGER OPTION (#7 Tires)	-
1	118497	WELDMENT, Outrigger leg, LH front, RH rear, A	2
	118496	WELDMENT, Outrigger leg, RH front, LH rear, A	2
	118499	WELDMENT, Ourigger leg, RH front, LH rear, B	2
	118500	WELDMEN I, Outrigger leg LH front, RH rear, B	2
2	115646	CYLINDER ASSEMBLY, Outrigger	4
	101007	(For components, refer to Figure 6-56, Page 138)	10
	101297	• BOLI, Hex-nd 3/8-16 X 1-1/4" Ig.	12
	103999	• WASHER, LOCK 3/8"	
3	102355	COVER, Outrigger nose	4
	103855	• BOLI, Hex-fid 1/4-20 X 1/2" Ig.	10
1	103995	ROLT Outrigger log stop	10
4	103470	WASHER Lock 1/2"	4
5	115652	SWITCH ASSEMBLY Limit	4
	115658	SWITCH Limit (inside mounting block)	4
	103859	 BOLT Hex-hd 1/4-20 x 1-1/2" la. 	8
	104000	 WASHER, Lock 1/4" 	16
6	115658	SWITCH, Limit (inside outrigger cross tube)	4
	107712	CONNECTOR ASSEMBLY, 5 Pole male	4
7	115656	MOUNT. Limit switch LH (Lower)	2
	116072	MOUNT, Limit switch RH (Lower)	2
8	111354	CABLE PROTECTION, 3/8" x 24" lg.	4
9	118387	SPACER, Outrigger	4
10	118478	BUSHING, Limit switch mount	8
11	116827	MOUNT, Limit switch (Upper)	4
12	116826	COVER, Limit switch (Upper)	4
	103962	 BOLT, Machine #10-32 x 1/2" lg. 	16
	103958	• BOLT, Machine #8-32 x 1.2" lg.	8
	104694	WASHER, Flat #10	16
	104185	WASHER, Lock #10	16
	112249	WASHER, Lock #8	8
13	106705	LABEL, Outrigger	4



FIGURE 6-54. HYDRAULIC OUTRIGGER OPTION - Leg Assembly (31' Models with Serial Number 36346 and Below) (41' Models with Serial Number 40800 and Below)

	5	<image/> <image/> <image/> <image/> <image/> <image/>	00-34
Index No.	Skyjack Part No.	Description	Units per Assy.
A B 1	(Ref.) (Ref.) 108782 106372 112662	OUTRIGGER, OPTION OUTRIGGER, OPTION (#7 tires) WELDMENT, Outrigger leg LH front, RH rear, A WELDMENT, Outrigger leg RH front, LH rear, A WELDMENT, Outrigger leg LH front, RH rear, B	- 2 2 2
2	109563	 VELDMENT, Outrigger leg RH front, LH rear, B CYLINDER ASSEMBLY, Outrigger (For components, refer to Figure 6-56, Page 138) 	4
3	101297 103999 102355 103855 103995	 BOLT, Hex-hd 3/8-16 x 1-1/4" lg. WASHER, Lock 3/8" COVER, Outrigger hose BOLT, Hex-hd 1/4-20 x 1/2" lg. WASHER, Flat 1/4" 	12 12 4 16 16
4	103911 103470	BOLT, Outrigger leg stop • WASHER, Lock 1/2"	4
5	109092 108626 112327	 SWITCH ASSEMBLY, Proximity SWITCH, Proximity (inside mounting block) SCREW, Machine #8-18 x 1/2" la. 	4 4 8
6	108627	 SWITCH, Proximity (inside outrigger cross tube) CONNECTOR ASSEMBLY 5 Pole male 	4
	107712	(Replaces round connector by also ordering (1)	

FIGURE 6-55. HYDRAULIC OUTRIGGER OPTION - Hydraulic Hose Connections



FIGURE 6-55. HYDRAULIC OUTRIGGER OPTION - Hydraulic Hose Connections

Index No.	Skyjack Part No.	Description	Units per Assy.
1	(Ref.)	MANIFOLD ASSEMBLY, Outrigger (Refer to Figure 6-57, Page 139)	1
2	(Ref.)	CYLINDER ASSEMBLY, Outrigger (Refer to Figure 6-56, Page 138)	4
3	103069	FITTING, Connector #6orb-#6	8
4 5	106330 102554	HOSE ASSEMBLY, Outrigger cylinder HOSE ASSEMBLY, Main manifold to outrigger manifold	2
6	112062	TUBE ASSEMBLY, Left front retract	1
8	112063	TUBE ASSEMBLY, Left rear retract	1
9	112065	TUBE ASSEMBLY, Right rear retract	1
10	112066	TUBE ASSEMBLY, Left rear extend	1
12	112068	TUBE ASSEMBLY, Right front extend	1
13	112069	TUBE ASSEMBLY, Left front extend	1
14	112228	COVER, Outrigger manifold CLAMP Double tube 3/8"	10



FIGURE 6-57. HYDRAULIC OUTRIGGER OPTION - Manifold Assembly





FIGURE 6-58. HYDRAULIC OUTRIGGER OPTION - Electrical Panel Assembly

Index No.	Skyjack Part No.	Description	Units per Assy.
1	118524	WELDMENT, Ourigger electrical panel (31' Machines with Serial Number 36381 and Above)	1
	112453	(41' Machines with Serial Number 40841 and Above) WELDMENT, Outrigger electrical panel (31' Machines with Serial Number 36380 and Below) (41' Machines with Serial Number 40840 and Below)	1
	110332	PANEL, Outrigger electrical (Earlier models with mounted panel)	1
2	105964 102921	DIODE ASSEMBLY W/8 DIODES • DIODE, 6 Amp	1
3	(Ref.) 107711	 CABLE ASSEMBLY, Outrigger proximity switch CONNECTOR ASSEMBLY, 5 Pole female (Replaces 108193 by ordering (1) connector, 107712.) 	4
4	103255 103255 103255 103255 (Ref.)	 CABLE, 18/4 x 132" Ig. (LH rear outrigger) CABLE, 18/4 x 168" Ig. (RH rear outrigger) CABLE, 18/4 x 156" Ig. (RH front outrigger) CABLE, 18/4 x 108" Ig. (LH front outrigger) CABLE ASSEMBLY, Outrigger panel to outrigger manifold 	1 1 1 1
5 6 7 8 9 10 11	102888 104345 104409 103012 103316 102479 103207 103271 102874 102986 (Ref.) 112265 102987 112266 103049	outrigger manifold • CABLE, 16/10 x 96" Ig. • CONNECTOR, Gray • CONNECTOR, Black BLOCK, Terminal strip RELAY, Single 12V SPDT SOCKET, Single relay RELAY, Double 12V DPDT SOCKET, Double relay TRACK, Relay • CLIP, Relay CABLE ASSEMBLY, Outrigger panel to base control/electrical panel (not shown) • CONNECTOR, 16 Pole male • PIN, Male • CONNECTOR, 16 Pole female • SOCKET, Female	1 2 1 AR AR AR 1 AR 1 15 15

FIGURE 6-59. AC OUTLET ON PLATFORM

	5		300-37
Index No.	Skyjack Part No.	Description	Units per Assy.
A B C D 1 2 3 4 5 6 7 8	113257 113256 117548 117549 109700 109699 109698 104208 103035 105269 117542 103024 110333	110V AC OUTLET ON PLATFORM - 31' Models (ANSI/SIA and CSA) 110V AC OUTLET ON PLATFORM - 41' Models (ANSI/SIA and CSA) 220V AC OUTLET ON PLATFORM - 31' Models(CE) 220V AC OUTLET ON PLATFORM - 41' Models(CE) BOX, G.F.I. Receptacle, A , B PLATE, Weatherproof cover, A , B RECEPTACLE, 125V G.F.I., A , B PLUG, 3-Prong male, 15A/125V, A , B ELBOW, 90 Strain relief CORD, 14/3 x 600" Ig., A , C CORD, 14/3 x 720" Ig., B , D CLIP, Cord LABEL, Connect 110V supply here, A , B	- - 1 1 1 1 1 1

3			2
Index No.	Skyjack Part No.	Description	Units per Assy.
1	112454 103864 103404 103996 106216 118684 113875 106673 103026 113876 113877 103938 103999 103472 103978	 PLATE, Generator mounting (Early models and field instalation) BOLT, Hex-hd 5/16-18 x 1" lg. WASHER, Lock 5/16" WASHER, Flat 5/16" GENERATOR, 3500W Hydraulic (ANSI/SIA and CSA) GENERATOR, 3500W Hydraulic (CE) MOTOR, Hydraulic COUPLING, Pump 1/2" SPIDER, Coupling COUPLING, Generator 14mm FLOW CONTROL, 8GPM BOLT, Soc-hd 3/8-16 x 1-1/2" lg. WASHER, Flat 3/8" NUT, Hex 3/8-16 	2 4 4 1 1 1 1 1 4 4 4 4
3 4	114292 114284 115384 103938 103999	 MOUNT, Oil cooler (Early models and field instalation) COOLER ASSEMBLY, Oil FAN, Oil cooler BOLT, Soc-hd 3/8-16 x 1-1/2" lg. WASHER, Lock 3/8 WASHER, Eact 3/8 	2 1 1 4 4



FIGURE 6-61. 3500 WATT HYDRAULIC GENERATOR OPTION - Hydraulic Hose Connections

SECTION 6, Page 144

Index No.	Skyjack Part No.	Description	Units per Assy.
1	(Ref.)	PUMP, Hydraulic generator (Refer to Figure 6-60, Page 143)	1
2	103070	FITTING, Connector #8orb-#6	1
3	102374	FITTING, Reducer #10orb-#8	1
4	103294	FITTING, Hose barb	1
5	102854	CLAMP, Gear	2
6	103032	HOSE, Suction 3/4" x 60" lg.	1
7	106170	FITTING, Tee #8-#8-#8	1
8	103323	FITTING, Connector #6P-#8	1
9	112456	FITTING, Connector #12orb -#12orb	1
10	112455	FITTING, Adapter #8-#6P	1
11	108799	FITTING, Hose barb	1
12	112451	BLOCK, Manifold tee	1
13	103137	BLOCK, Valve manifold	1
14	104412	VALVE, N.C. (generator)	1
15	106272	COIL, 12 Volt (2-prong)	1
16	106371	HOSE ASSEMBLY, Valve manifold to Generator pump	1
17	(Ref.)	MANIFOLD ASSEMBLY, Main	1
		(Refer to Figure 6-38 and 6-39.)	
18	103215	FITTING, Hose barb	2
19	114284		1
20	110556	FITTING, Reducer	2

FIGURE 6-61. 3500 WATT HYDRAULIC GENERATOR OPTION - Hydraulic Hose Connections

			0051-22
Index No.	Skyjack Part No.	Description	Units per Assy.
1	116734 (Ref.) 107882 107883 107884 109050 107886 107903 102891 102893	AIR HOSE TO PLATFORM (41' Models) HOSE ASSEMBLY, Air to platform • FITTING, Female disconnect • FITTING, Male disconnect • HOSE, Air 1/2 x 840" lg. • FITTING, Hose barb • CLAMP, Hose LABEL, Connect air here STRAP, Tie 7" lg. STRAP, Tie 10-1/2" lg.	1 1 1 2 2 2 AR AR



FIGURE 6-63. D-RING LANYARD ATTACHMENTS



FIGURE 6-64. SCISSOR GUARD OPTION

Index No.	Skyjack Part No.	Description	Units per Assy.
A B C D 1 2 3 4	116622 116624 116588 116589 116506 116525 116528 116527 116527 116525 116529 116530 103596	 SCISSOR GUARD ASSEMBLY (31' Models With Outriggers) SCISSOR GUARD ASSEMBLY (31' Models Without Outriggers) SCISSOR GUARD ASSEMBLY (41' Models With Outriggers) SCISSOR GUARD ASSEMBLY (41' Models Without Outriggers) FRAME, RH Front side scissor guard (Replaces 111382) MESH, RH Rear side scissor guard (Replaces 111384) MESH, RH Rear scissor FRAME, LH Front scissor FRAME, LH Front scissor FRAME, LH Rear side scissor guard (Replaces 111381) MESH, LH Rear side scissor guard (Replaces 111386) MESH, LH Rear scissor MESH, LH Rear scissor FRAME, LH Rear scissor MESH, LH Rear scissor 	- - 1 1 1 1 1 1 1 1 8
5	103472 103999 103978 116562 116548 116546 116547 116566 116542	 WASHER, Flat 3/8" WASHER, Lock 3/8" NUT, Hex 3/8-16 FRAME, Front side scissor guard (31' Machines) FRAME, Front side scissor guard (41' Machines) MESH, Front top (41' Machines) MESH, Front elbow (31' and 41' Machines) FRAME, Rear scissor guard (31' Machines) FRAME, Rear scissor guard (41' Machines) 	8 8 1 1 1 2 1
7 8	116565 116541 101632 103999 103472 116535 116536 111370 103883 103996	 MESH, Rear (31' Machines) MESH, Rear (41' Machines) BOLT, Hex-hd 3/8-16 x 3/4" lg. WASHER, Lock 3/8" WASHER, Flat 3/8" FRAME, Corner (Machines without outriggers) MESH, Rear CLAMP, Scissor guard frame BOLT, Hex-hd 5/16-18 x 3-1/2" lg. WASHER, Flat 5/16" 	1 1 8 8 8 4 4 8 16 16
9 10 11 12 13	103984 100702 116438 118313 118322 118312 118315 116829 119968	 NUT, Lock 5/16-18 CAP, Tube end BUMPER FRAME, Scissor guard center, A, B MESH, Center, A, B FRAME, Scissor guard center, C, D MESH, Center, C, D FRAME, Scissor guard (front/rear) MESH, Front/rear 	16 10 2 1 2 1 AR AR
		Item 13 was used on Earlier 8231F and 8241F Machines	
14	111593 111575 111740 111576 111356 102668 102882 103142 103036 103256	SWITCH ASSEMBLY, Limit (Model 8231F) SWITCH ASSEMBLY, Limit (Model 8241F) (Machines with front extension platform) SWITCH ASSEMBLY, Limit (Model 8231F) SWITCH ASSEMBLY, Limit (Model 8241F) (Machines with front and rear extension platforms) • SWITCH, Sealed limit • SWITCH, Sealed limit • SWITCH, Limit • HEAD, Limit switch • ARM, Limit switch actuator • STRAIN RELIEF, Cord • CABLE, 18/2 x 876" lg. (Model 8231F)	1 1 1 AR AR AR AR

FIGURE 6-65. LABELS AND NAMEPLATES

Index No.	Skyjack Part No.	Description	Units per Assy.
	113874	KIT, Service labels and nameplates (SEE NOTE)	-
1	105672	I ABEL Danger (safety plate)	1
2	106695	I ABEL Caution (safety plate)	2
3	106691	I ABEL Operator checklist	2
4	106760	IABEL Keep (on scissor arm)	2
5	106761	• LABEL Clear (on scissor arm)	1
6	109985	LABEL Annual inspection	1
7	108666	LABEL, Replacement parts	2
8	108946	 LABEL, SKYJACK (small) (21-1/2" wide) 	2
9	102632	 LABEL, SKYJACK (medium) (26" wide) 	1
10	105983	LABEL. Power off/on	2
11	108664	LABEL, Off slab (compliance)	1
12	102961	LABEL, Use hydraulic oil	2
13	103110	STRIPE, Red/blue/red 96" lg.	2
14	103125	STRIPE, White/blue 163" lg.	1
15	106406	LABEL, Safety bar	2
16	106703	LABEL, Orifice warning (on lift cylinder)	2
17	106705	LABEL. Do not alter (limit switches)	1
18	106899	 LABEL, Emergency battery switch 	1
19	111604	 LABEL, Manual brake procedure (in 	
		hydraulic/electric cabinet)	1
20	111605	LABEL, Emergency lowering	1
21	107802	 LABEL, Operator warning (on control box) 	1
22	102627	 LABEL, Emergency stop (on control box) 	1
23	108855	 LABEL, Lift enable (on control box) 	1
24	102657	 LABEL, Up/off/down (on control box) 	1
25	102628	 LABEL, Start (on control box) (on engine control box) 	1
26	110712	LABEL, Low/high range (on control box)	1
27	102658	LABEL, Low/high throttle (on control box)	2
28	103060	LABEL, Choke (on control box) (on engine control	
		panel) (gasoline engines)	2
	102448	 LABEL, Glow plug (on control box) (on engine 	
		control panel) (diesel engines)	1
29	103126	LABEL, Off/lift/drive (on control box)	1
30	103080	 LABEL, On indicator (on control box) 	1
31	106316	 LABEL, Outrigger control (on control box) 	
		(machines with outrigger option)	1
32	102883	LABEL, Off/on (on engine control panel)	1
		Parts list continued on the following page.	



FIGURE 6-65. LABELS AND NAMEPLATES (continued)

Index No.	Skyjack Part No.	Description	Units per Assy.
		Parts list continued from the previous page.	
33	105745	PLATE, Safety label	4
	103632	 BOLT, Self-tapping 1/4-14 x 3/4" lg. 	1
34	114269	TUBE, Manual storage 12" lg. (Replaces 105744)	2
	112113	MANUAL, Operating booklet	AR
	114224	MANUAL, Responsibilities A92.6	AR
35	114271	CAP, Manual tube (Replaces 105802)	2
36	114270	CLAMP, Manual tube (Replaces 105934)	2
37	111265	LABEL, 800 SERIES	-
38	(Ref.)	LABEL, Model designation	4
	111266		4
	111200	• \$182/1F	4
	116095	• S.18831	4
	116097	• SJ8831F	4
	116096	• SJ8841	4
	116094	• SJ8841F	4
39	(Ref.)	LABEL, Platform capacity	2
	107800	2000 lbs. (Model 8241F and Model 8831F Europe)	2
	111584	• 2500 lbs. (Model 8231F)	2
	116114	• 2500 lbs. (Model 8831)	2
	112584	• 2500 lbs. (Model 8831F)	2
	107800	2000 lbs. (Model 8831F Europe only)	2
	1107801	• 1500 lbs. (Model 8841 and Model 8841F Europe)	2
40	106603	• 2000 IDS. (MODEL 8841F)	2
40	106694	LABEL Danger explosion hazard	1
42	103023	LABEL, Use liquid propane only (Replaces 106911)	1
	100020	(Machines with Dual Fuel Option)	
43	106409	LABEL, Fuel switch sequence (on engine front	1
		cover) (Machines with Dual Fuel Option)	
44	102960	LABEL, Use gasoline only (gasoline engines)	1
	100000	(on fuel tank)	
	102962	LABEL, Use diesei only (diesei engines)	1
45	110333	(OFFICE Connect 110V/AC supply bere	1
	110000	(Machines with AC Outlet on Platform Ontion)	'
46	112437	LABEL. Generator off/on	1
		(Machines with Hydraulic Generator Option)	
47	(Ref.)	NAMEPLATE, Serial number (Consult factory)	AR
48	102975	STRIPE, Warning (648" roll)	AR
49	102631	LABEL, SKYJACK large (36" wide)	1
		(Machines with extension platform)	
50	707236	LABEL, 4x4	2
51	115982	LABEL, Warning (Full torque)	2
52	115531	LADEL, WARNING (Failing nazard)	
53	106400	ABEL Fuel switch	
55	112006	TAPE Caution	ΔR
	112300	NOTE: Items 33 thru 50 not included in Service	
		Label Kit, order separately. Supply Model	
		number and Serial Number when	
		ordering complete machine labels.	

Notes



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