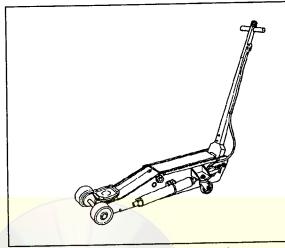
Blackhawk Automotive...

INSTRUCTION MANUAL REPAIR PARTS LIST

HYDRAULIC SERVICE JACK

10 TON (9072 Kg) CAPACITY

MODEL B67452



SPECIFICATIONS

20,000 lbs RATED LIFTING CAPACITY 5-7/8" LOW PICK UP HEIGHT 25" HIGH LIFTING POINT 7-1/2" LIFT CAP SIZE (SQUARE) 53-3/8" **CHASSIS LENGTH** 9-3/4" **CHASSIS HEIGHT** 50" HANDLE LENGTH 6" FRONT WHEEL DIAMETER 4" CASTER WHEEL DIAMETER 150 psi MAXIMUM AIR PRESSURE SUPPLY 140 psi for 20,000 lbs REQUIRED AIR PRESSURE 125 psi for 17,500 lbs FOR LIFTING LOADS 100 psi for 13,000 lbs 75 psi for 10,000 lbs

SHIPPING WEIGHT

DESCRIPTION

Model 67452 jack is designed for shops where heavy equipment is serviced. The jack provides the following features:

- · Operates manually or with air.
- Dual action pump raises the jack quickly to contact a vehicle lift surface.
- Long chassis and handle reaches under long, low vehicles.
- Handle adjusts to three pumping positions for operator convenience and low clearance vehicles.
- Automatic overload protection prevents overloading and exceeding the jack rated lifting capacity.

OWNER/OPERATOR RESPONSIBILITY

It is the owner/operator responsibility to properly use and maintain this equipment.

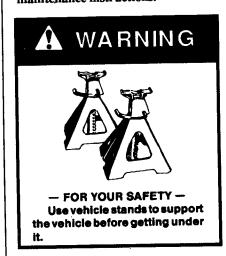
The instructions and warning contained in this manual shall be read and under-

stood by the owner/operator prior to operating this equipment.

If an owner/operator does not understand English, the contents of this manual shall be explained in the owner/operator native language to assure the owner/operator comprehends.

It is the owners/operators responsibility to maintain the legibility of all warning and instruction labels.

The owner/operator shall retain this manual for future reference to important warnings, operating and maintenance instructions.



A WARNING

430 lbs

FAILURE TO FOLLOW
WARNINGS MAY RESULT
IN INJURY OR
PROPERTY DAMAGE

-USE VEHICLE STANDS-

- Use only as a lifting device.
- Center the load on the saddle.
- Lift only at locations suggested by the vehicle manufacturer.
- Use jack and vehicle stand saddle lugs for gripping.
- Do not exceed rated capacity.
- Use on hard level surfaces.
- Set parking brakes and chock wheels.
- Do not crawl under vehicle when placing stands.
- Lower the vehicle slowly.
- For safety, follow instructions in Owner's Manual.

INSPECTION

Prior to operation or maintenance a visual jack inspection shall be made. Check for bent or worn chassis parts, hydraulic leaks, damaged, loose or missing parts.

Check jack operation by connecting air hose to jack, closing release valve and pressing air control valve. Make sure jack operates smoothly and is not binding or requires lubrication. If jack does not respond to air pressure, disconnect air hose and manually pump jack handle. If jack still does not respond to pump action, refer to TROUBLESHOOTING and perform AIR PURGING procedure.

If jack is damaged, badly worn, or operates abnormally it shall be removed from service. Contact a factory authorized service center for repair.

If the jack has been subjected to an abnormal load or shock, the jack shall be inspected by a factory authorized service center.

An annual jack inspection is recommended to be performed by a factory authorized service center.

OPERATION

Jack operation is controlled by external air pressure, the air control valve and opening and closing the release valve with the release knob located on the top of the handle. To raise the jack, connect air hose to jack, firmly close the release valve by turning the release knob clockwise and pressing air control valve. To lower the jack, open the release valve by turning the release knob counterclockwise. The jack may also be operated manually by pumping the jack handle.

When operated manually, the dual action pump will raise the jack quickly until the load is contacted. The pump will then switch automatically to high pressure to raise the load.

The jack handle position may be changed by pulling out the release knob to disengage the lock and moving the handle to the desired position. Three handle positions are provided for operator convenience.

RAISING A VEHICLE

- A. Set vehicle parking brakes and block vehicle wheels.
- B. Open release valve by turning release knob counterclockwise and allow jack to fully retract.
- C. Connect air hose to jack. 140 psi is required for rated lifting capacity (20,000 lbs.).
- D. Position jack under desired vehicle lifting point suggested by manufacturer. Floor area in front of jack wheels must be free of obstructions to allow jack to move forward while lifting.
- E. Select the best handle position to operate the jack by pulling up on release knob.
- F. Firmly close release valve by turning release knob clockwise.
- G. The jack lift cap must contact the vehicle lift surface squarely and as close to center of lift cap as possible.
- H. Press air control valve and raise vehicle to desired height. DO NOT lift vehicle any higher than is needed to make repairs.
- DO NOT crawl under vehicle while positioning vehicle stands.
- Slowly and carefully lower vehicle on to vehicle stands or other appropriate supports.

LOWERING A VEHICLE

- A. Make sure release valve is closed by firmly turning release knob clockwise.
- B. Press air control valve and raise vehicle just enough to clear vehicle stands or support means.
- C. Remove vehicle stands or other

- support means from under vehicle. DONOT crawl under vehicle when removing vehicle stands.
- Slowly turn release knob counterclockwise to open release valve and lower vehicle.
- E. When vehicle is fully lowered, remove jack from under vehicle.

MAINTENANCE

CHECKING HYDRAULIC OIL LEVEL

Fill hydraulic reservoir as follows:

- A. Open release valve by turning release knob counterclockwise and allow jack to fully retract.
- B. Raise front end of the cover over hydraulic unit assembly to gain access to filler plug on top of the reservoir.
- C. Clean dirt from around filler plug and remove filler plug from hydraulic unit assembly.
- D. Fill hydraulic reservoir with clean hydraulic jack oil to a level that just covers the hydraulic cylinder visible through the filler hole. Do not overfill.

A CAUTION

BRAKE OR TRANSMISSION FLUIDS WILL DAMAGE JACK SEALS.

- E. Reinstall filler plug in hydraulic unit assembly. Hand tightening is usually adequate.
- F. Lower cover over hydraulic unit assembly and latch by pressing downward.

LUBRICATION

Lubricate jack as follows:

A. Open release valve by turning re-

- lease knob counterclockwise and allow jack to fully retract.
- B. Raise cover over hydraulic unit assembly by lifting the end opposite the handle.
- C. Apply oil to release mechanism universal joint, pump linkages and all moving joints at the lower end of the handle.
- D. Apply chassis grease to bell crank ram pin and fulcrum pin grease fittings until pin is fully lubricated.
- E. Close release valve by turning release knob clockwise.
- F. Pump jack handle until jack is fully extended.
- G. Apply oil to all pin joints under lifting cap.
- H. Open release valve by turning release knob counterclockwise and allow jack to fully retract.
- Apply oil or chassis grease to wheels, caster swivel bearings, and the hydraulic unit trunion bushings until fully lubricated.
- J. If required, repeat steps C through I until jack operates and moves freely.
- K. Lower cover over hydraulic unit assembly and press down to latch.

TROUBLESHOOTING

If the following procedures do not correct the problem, contact a factory authorized service center. When submitting a jack or equipment to be repaired, be sure to state the nature of the problem and indicate if a repair cost estimate is required.

AIR PURGING

As with any hydraulic unit, the jack may occasionally become air bound due to being tipped over during shipment or handling. To purge air from jack hydraulic circuit, perform the following procedure:

- A. Open release valve by turning release knob on end of jack handle one full turn counterclockwise.
- B. Rapidly pump jack handle six or more full strokes to purge air from hydraulic circuit.
- C. Close release valve by turning release knob clockwise.
- D. Pump jack handle until jack is fully extended. Pump jack handle two or three more full strokes to activate the jacks overtravel limiting device.
- E. Open release valve by turning release knob counterclockwise and allow jack to retract quickly.
- F. Close release valve by turning release knob clockwise.
- G. Check pump action. Close release valve by turning clockwise and repeat procedure using air assist system. If jack does not respond, repeat the above procedure several times until air is fully purged from the hydraulic system.

COMMON PROBLEMS

JACK FEELS SPONGY WHEN LIFTING VEHICLE.

 Air in hydraulic system. Refer to AIR PURGING procedure and purge air from system.

JACK WILL NOT LIFT TO FULL HEIGHT.

 Oil level low. Refer to CHECK-ING HYDRAULIC OIL LEVEL procedure in maintenance section of this manual.

JACK WILL NOT HOLD LOAD.

· Release valve not closed or not seal-

- ing. Internal repairs may be required.
- Dirt in hydraulic oil or pump ball valves not seating. Flush hydraulic circuit by closing release valve and pumping jack to maximum height. Open release valve and quickly lower jack by manually pushing on lift cap. Repeat if necessary. If this procedure does not correct the problem, internal repairs are required.

LIFTING ARM WILL NOT LOWER PROP-ERLY.

- Broken return springs. Replace return springs.
- Lift arm bearings are binding. Refer to LUBRICATION procedure and lubricate lift arm.
- Hydraulic cylinder ram binding.
 Repair hydraulic cylinder assembly.
- Fulcrum pin, parallel link pin, bell crank pin, ram cross pin bent or worn. Repair jack as required.

AIR-HYDRAULIC PUMP STALLS UNDER HEAVY VEHICLE WEIGHT.

- Air pressure to low. Check air pressure supply. 140 psi is required for rated lifting capacity (20,000 lbs.).
- Air hose restricted or leaking. Check air hose for restrictions or leaks.

AIR-HYDRAULIC PUMP LIFTS VEHICLE WEIGHT TO SLOW.

- Air-hydraulic pump requires lubrication. To lubricate, open air valve on handle and squirt 1/2 ounce SAE 30 oil into air inlet. Connect air hose and operate jack to distribute oil internally.
- · Air lines restricted or to small.
- · Inadequate air supply.

AIR-HYDRAULIC PUMP DOES NOT CYCLE. AIR RUSHING OUT EXHAUST PORT.

• 225371 rubber cushion dislodged on spring. Replace rubber cushion.

COMMON PROBLEMS (CONT)

- 223187 valve and plunger stuck open. Clean valve and valve seat.
 Replace valve and plunger if required.
- Weep holes plugged in 223183
 retainer plug. Remove and clean.
 Reassemble to dimensions shown on SERVICE PARTS drawing.
- · 223173 return spring broken.

AIR-HYDRAULIC PUMP DOES NOT CYCLE. NO AIR COMING FROM EXHAUST PORT.

 223187 valve and plunger not opening. Check for bent 223202 trip washer or bent/rusted valve plunger. Replace parts as required.

AIR-HYDRAULIC PUMP CYCLES TO SLOW. JACK LIFTS LOAD SLOWER THAN NORMAL.

 Weep holes plugged in 223183 retainer plug. Remove and clean. Reassemble to dimensions shown on SERVICE PARTS drawing.

AIR-HYDRAULIC PUMP CYCLES TO FAST. JACK LIFTS LOAD SLOWER THAN NORMAL.

 225384 trip spring deformed or broken. Replace trip spring.

LIMITED WARRANTY

Lincoln, a division of McNeil (Ohio) Corp., a subsidiary of Pentair, Inc., warrants that jacks and related service equipment sold with the brandnames Lincoln, Blackhawk Automotive, Blackhawk Automotive Banner, Blackhawk Automotive Porto-Power, Hein Werner Automotive, Hein Werner Automotive Winner will be free from defects in material and workmanship during one (1) year following the date of purchase. This warranty is extended to the original retailer purchaser only. If a jack or related service equipment proves to be defective during this warranty period, it will be prepaid or replaced without charge. To obtain repair or replacement, it must be shipped, transportation charges prepaid, with proof of date of purchase to a Lincoln authorized Warranty and Service Center, within one (1) year following the date of purchase. This warranty does not apply to parts damaged from accident, overload, or abuse, nor does it apply to any equipment which has been altered or used with special attachments other than those recommended by Lincoln. No other express warranty applies to jacks and related service equipment manufactured by Lincoln.

ANY IMPLIED WARRANTIES applicable to jacks and related service equipment manufactured by Lincoln, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WILL LAST ONLY FOR ONE (1) YEAR FROM THE DATE OF PURCHASE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

In no event shall Lincoln be liable for incidental or consequential damages. The liability of Lincoln on any claim for loss or damage arising out of the sale, resale, or use of a jack or related service equipment shall in no event exceed the purchase price.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

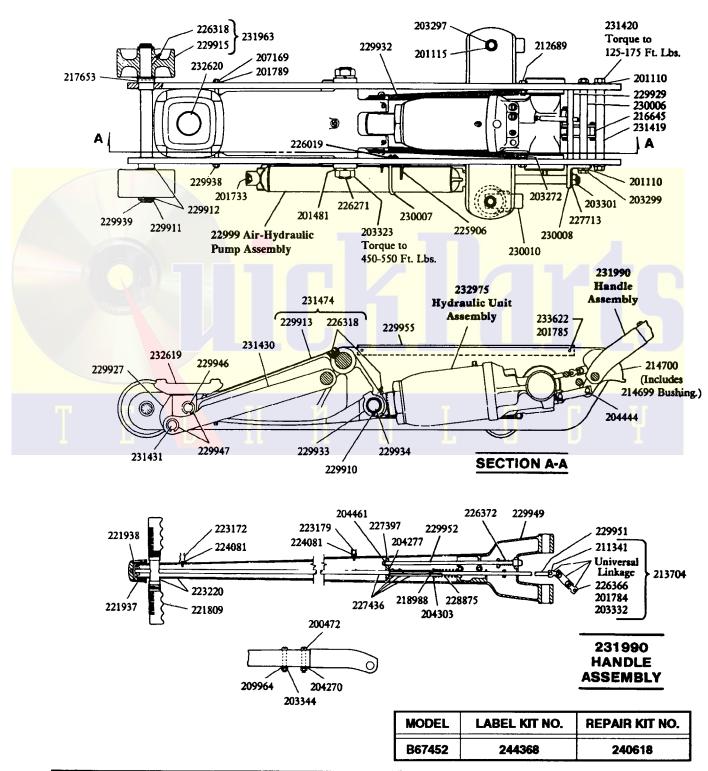
THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

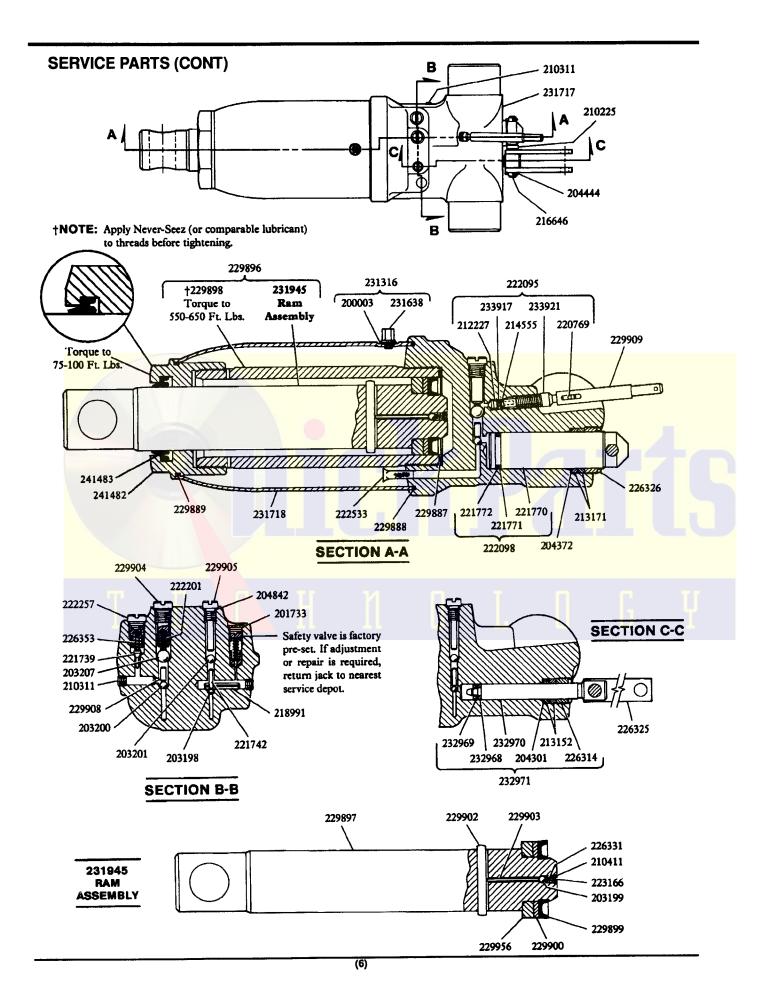
BLACKHAWK AUTOMOTIVE IS A LICENSED TRADEMARK. LINCOLN AUTOMOTIVE St. Louis, Missouri 63120-1578 Customer Service (314) 679-4300

SERVICE PARTS

Lincoln provides Factory Authorized Service Centers that stock equipment and replacement parts. Contact Lincoln Customic Service, One Lincoln Way, St. Louis, MO 63120-1578, (314) 679-4300 for your nearest Service Center.

When ordering replacement parts, list: part number, description, model number, and series letter.



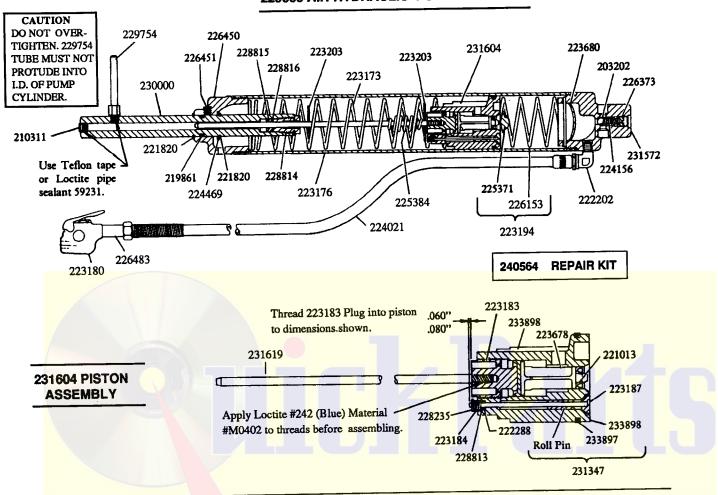


SERVICE PARTS (CONT)	CEDV	ICE DA	DTC (CONT)		-	
200003	SERV					
200772	PARI	QIY	DESCRIPTION	PART	QTY	DESCRIPTION
200472	200003	1	Gasket	226352	10	Codes
201110						
201115			Lockwasher		-	
2017491						
Description				227397	1	
Lockwasher 22877 1					1	Turning rod assembly
201789 2						
Document Description Document Docume					=	, ,
Description		-				
203200						•
203201 1	203200	20				
203207 2		1●	Ball		-	
203297 2			— 	229898	1	
203299 2		_		229899	1●	
203301 1						Back-up washer
203323 2 Nut 22900 1 Ping 203324 2 Nut 22900 1 Spacer 203344 2 Nut 22900 1 Spacer 204277 1 Washer 22901 1 Spacer 204277 1 Washer 22901 2 Retaining ring 204303 1 Washer 22901 2 Retaining ring 204404 4 Cotter pin 22901 3 1 Bell crank 204441 1 Cotter pin 22901 3 1 Bell crank 204441 1 Cotter pin 22901 3 1 Bell crank 204441 1 Cotter pin 22901 3 1 Bell crank 204461 1 Cotter pin 22901 3 1 Bell crank 20461 1 Cotter pin 22901 3 1 Bell crank 201464 1 Cotter pin 22901 3 1 Bell crank 201464 1 Cotter pin 22901 3 1 Bell crank 201464 1 Cotter pin 22902 1 Cap housing 20166 2 Nut 22903 2 Spring 20166 1 Pin 22903 1 Pin		_				
203332		•				
200344						
204270 2 Washer 229909 1 Slotted tube	203344	2			-	Plug
204277		2	Washer			
204301 Washer 229911 2 Retaining ring 2043072 1 Washer 229912 4 Washer 229913 1 Bell crank 204444 4 Cotter pin 229915 2 Front wheel 204461 1 Cotter pin 229927 1 Cap housing 2049461 1 Cotter pin 229927 1 Cap housing 204942 1 Gasket 229932 2 Spring 209046 2 Lockwasher 229932 2 Spring 209046 2 Lockwasher 229933 2 Plate 210311 4 Pipe plug 229938 1 Pin 210311 4 Pipe plug 229938 1 Pin 210311 4 Pipe plug 229939 1 Axie 211341 1 Rivet 229940 1 Axie 211341 1 Rivet 229947 4 Retaining ring 212689 2 Bolt 229947 4 Retaining ring 213152 2 Packing ring 229951 1 Extension tod 213171 2 Packing ring 229951 1 Extension tod 213171 2 Packing ring 229955 1 Cover 214699 1 Bushing 229995 1 Handle somethy 229955 1 Cover 214699 1 Bushing 229996 1 Handle somethy 229956 1 Cover 214700 1 Handle soment & bushing 230003 1 Roll pin 230007 1 Hangle soment & bushing 230003 1 Roll pin 230007 1 Hangle soment & bushing 230008 1 Roll pin 230007 1 Hangle soment & bushing 230008 1 Roll pin 230007 1 Hangle soment & bushing 230008 1 Roll pin 230007 1 Hangle soment & bushing 230008 1 Roll pin 230007 1 Hangle soment & bushing 230008 1 Roll pin 230007 1 Hangle soment & bushing 230008 1 Roll pin 230007 1 Hangle soment & bushing 230008 1 Roll pin 23		-	Washer			
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204444				229912		
2044661 1				229913	1	Bell crank
204842			· · · · · · · · · · · · · · · · · · ·		_	Front wheel
207169						
299964 2			\			
210225						
210311	210225					1000
210411		4				
21341						
212689 2 Bolt 229949 1 Handle socket 213152 2 Packing ring 229951 1 Extension rod 213171 2 Packing ring 229952 1 Extension rod 213170 1 Universal linkage assembly 229955 1 Cover Cover 214595 1 Universal linkage assembly 229956 1 Hele plate 229999 1 Hele plate 230005 1 Gland nut 230005 1 Gland nut 230006 1 Gland nut 230006 1 Gland nut 230006 1 Gland nut 230007 1 Hanger 230006 1 Gland nut 230007 1 Hanger 230006 1 Gland nut 230007 1 Hanger 230008 1 Gland nut 230098 1 Gland nut 241482 1 Gland nu				229946		
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213171						Handle socket
213704						
214555 1				–	•	
214699	214555				-	
214700	214699	1			-	
216646		1	Handle segment & bushing			Rack-up washer
216645 Pin 230006 1 Bumper pin 21685 2 Roll pin 230007 1 Hanger 230008 1 Bracket 230067 1 Hanger 230068 1 Bracket 2300769 1 Cross pin 230010 2 Caster 220769 1 Cross pin 230011 1 Spacer 231739 1 Poppet 231316 1 Filler plug & gasket ass'y. 221770 1 Speed pump 231420 2 Bolt 221771 1 Back-up washer 231430 2 Parallel fink 221877 1 Quad ring 231431 1 Pin 231638 1 Pin 231638 1 Filler plug & vent valve 231937 1 Release knob 231638 1 Filler plug & vent valve 231938 1 Roll pin 231718 1 Speed pump assembly 231733 1 Base 222098 1 Speed pump assembly 231733 1 Base 222257 1 Plug 231963 1 Front wheel assembly 232253 3 Screen 232620 1 Handle assembly 231737 1 Hose clip 232968 1 Back-up washer 232970 1 Pressure pump 232970 1 Pressure pump 232970 1 Pressure pump 232971 Pressure pump 232627 1 Fulcrum pin 233622 4 Screw 232971 Pressure pump 232627 1 Fulcrum pin 233622 4 Screw 232971 Pressure pump 23618 5 Grease fitting 233927 1 Pressure pump Pressure			Pin —	230005		
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220769						Bracket
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221742	221739					
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221771		1				
221772		_	Back-up washer			
221937 1 Release knob 231638 1 Filler plug & vent valve 221938 1 Roll pin 231718 1 Oil tank 222095 1 Release stem assembly 231733 1 Base 222098 1 Speed pump assembly 231945 1 Ram assembly 222201 1 Spring 231963 1 Front wheel assembly 222257 1 Plug 231990 1 Handle assembly 222533 3 Screen 232619 1 Lifting cap 23172 1 Hose clip 232968 1 Back-up washer 223172 1 Hose clamp 232968 1 Back-up washer 223179 2 Hose clamp 232969 1 U-cup packing 223220 1 Handle tube & cross bar 232970 1 Pressure pump 224081 2 Screw 232971 1 Pressure pump 225906 1 Bracket 232975 1 Hydraulic unit assembly 226019 2 Locknut 233110 1 U-cup packing 226271 1 Fulcrum pin 233622 4 Screw 226314 1 Gland nut 233917 1 Plastic spring 226325 2 Pump link 244368 1 Label kit Repair Kit.						
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226318 5 Grease fitting 233921 1 Release stern 226325 2 Pump link 244368 1 Label kit Repair Kit. 226331 1 Spring 244368 1 Tank nut Repair Kit.			•		-	
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226326 1 Gland nut 241482 1 Tank nut Repair Kit.			_			
220331 1 Spring					-	Donnie IVie
	226331	1.	Spring			

(7)

SERVICE PARTS (CONT)

229999 AIR-HYDRAULIC PUMP ASSENBLY



PART	QTY	DESCRIPTION	PART	QTY	DESCRIPTION
203202	1	Ball	225371	1	Rubber cushion
210311	1	Pipe Plug	225384	1	Trip spring
219861	10	O-ring	226153	1	Spring
221013	1.	U-cup packing	226373	1	Adjusting screw
221820	1	Retaining ring	226450	1	End block
222202	i	Elbow	226451	2	Set screw
222288	1.	O-ring	226483	1	Pipe nipple
223173	1	Return spring	228235	1	Cotter pin
223176	•	Air cylinder	228813	1	Washer
223180	•	Air valve	228814	1	Gland nut
223183	i	Plug	228815	1	U-cup packing
223184	1	Spring	228816	1	Washer
223187	1.	Valve & plunger	229754	1	Extension tube
223194	1	Spring & rubber cushion	230000	1	Pump cylinder
223203	2	Trip washer	231347	1	Piston & roll pin ass'y.
223678	1	Pump packing & piston ass'y.	231572	1	Cylinder cap
223680	1	Screen	231604	1	Piston assembly
224021	1	Air hose assembly	231619	1	Pump rod
224156	i	Spring	233897	1	Sealing ring
224469	1	Washer	233898	1	Piston

Included in 240564 Repair Kit.