MAXON[®] LIFT CORPORATION Sht. 1 of 11 DSG# M-04-19 Rev. - Date: 01/12/05

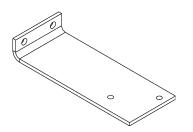
INSTRUCTION, GPTLR HAND PUMP INSTALLATION, PD P/N 281285-01

Q

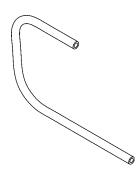
HAND PUMP, SAE #4 PORTS

P/N 266588-01

QTY.1



HAND PUMP BRACKET P/N 281286-01 QTY.1



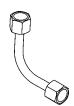
HOSE 3/8" LP, 25" LG. P/N 251855-06 QTY.1



P/N 251855-05

QTY.1

HOSE CLAMP, SCREW-TYPE P/N 251854 QTY.4



TUBE ASSEMBLY P/N 281284-01 QTY.1

TUBE ASSEMBLY (POWER DOWN) P/N 281283-01 QTY.1

ELBOW (9/16"-18 O.R. MALE TO 11/16"-16 F.S. MALE)

P/N 906707-01



NEEDLE VALVE, ADJUSTER (9/16"-18 PORTS) P/N 906739-01 **QTY.2**



ELBOW (1/4" MALE-3/8" TUBE) P/N 251853 QTY.2

MALE BRANCH TEE (1/4" NPT, 3/8" TUBE)

P/N 906758-01 **QTY.1**



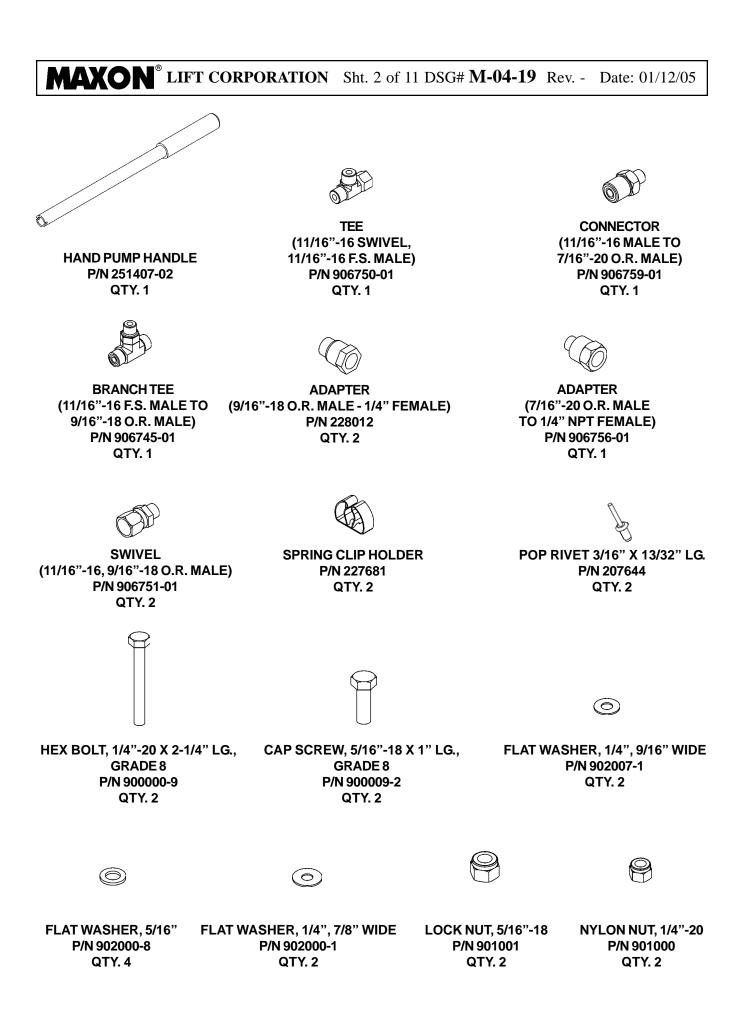
POPPET VALVE, **FREE REVERSED FLOW** P/N 906768-01 QTY.1





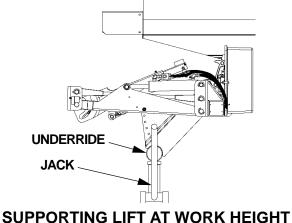






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1. Position the Platform to gain access to hydraulic cylinders and hoses as follows. Lower the Platform to a comfortable work height (FIG. 3-1). Use floor jack & jack stands under the Underride to support the Lift.

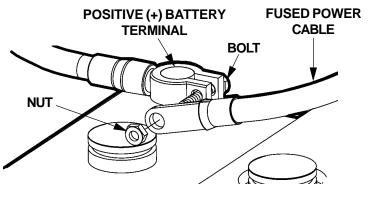


SUPPORTING LIFT AT WORK HEIGHT (RH SIDE SHOWN) FIG. 3-1

A WARNING

To prevent accidental personal injury and equipment damage, make sure power is disconnected from Liftgate while installing parts.

 Disconnect power from Liftgate by removing nut from positive (+) battery terminal connector and disconnect Power Cable (FIG. 3-2). Reinstall nut on positive (+) battery terminal connector.



DISCONNECTING BATTERY FIG. 3-2

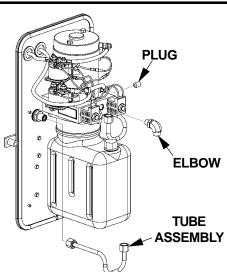
3. Unbolt the Pump Cover as shown in FIG. 3-3. NUTS FLAT WASHERS REMOVING COVER FIG. 3-3

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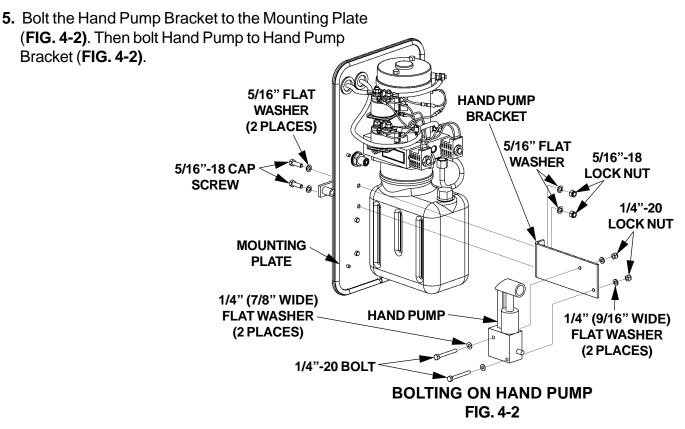
CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination.

4. Place a 5 gallon bucket under the Pump to catch fluid. Remove Elbow, Tube Assembly, and Plug as shown in **FIG. 4-1**.



REMOVING EXISTING PARTS FIG. 4-1



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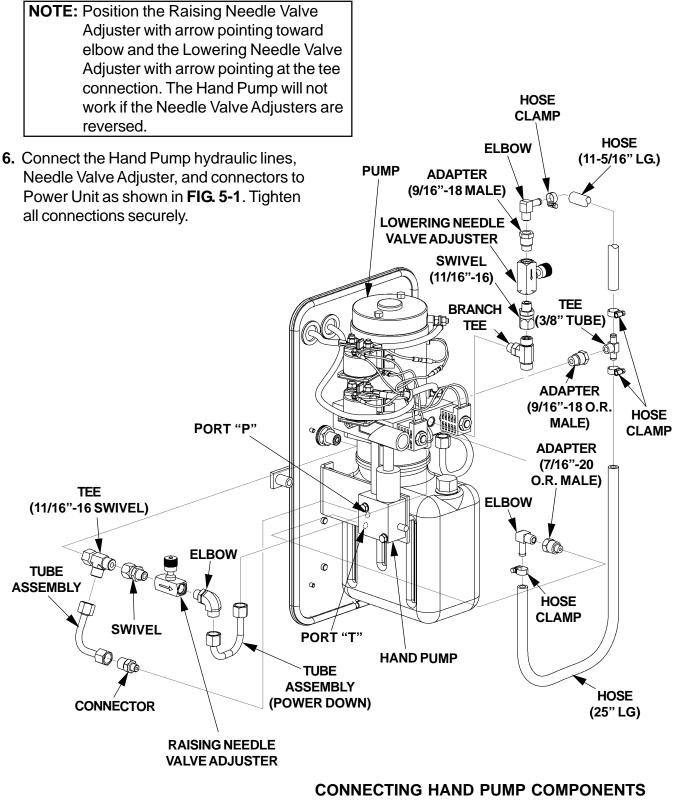
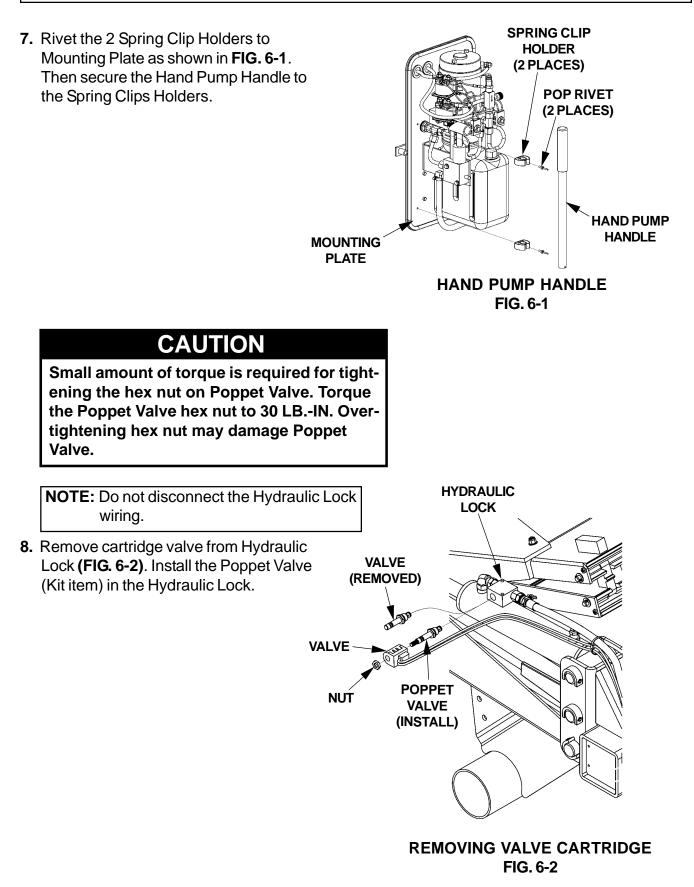


FIG. 5-1

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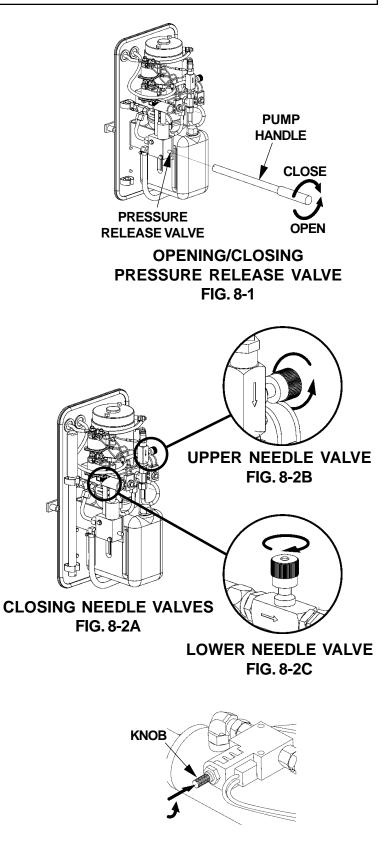
- Use floor jack to raise Lift by the Underride enough to remove jack stands (FIG. 7-1). Lower and remove floor jack.
- FLOOR JACK REMOVED FIG. 7-1 UPPER NEEDLE VALVE FIG. 7-2B G **OPENING NEEDLE VALVES FIG. 7-2A** LOWER NEEDLE VALVE FIG. 7-2C KNOB **OPENING HYDRAULIC LOCK**

FIG. 7-3

10. Open the 2 Needle Valve Adjusters by turning counterclockwise (FIG. 7-2B & 2C). Open the Hydraulic Lock by pulling and rotating knob 1/4 turn (FIG. 7-3).

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11. Lower the Platform about 6" by opening the Pressure release Valve 1/2 turn counterclockwise with the Pump Handle **(FIG. 8-1)**. Close the Pressure Release Valve by turning clockwise to stop the Platform from lowering.

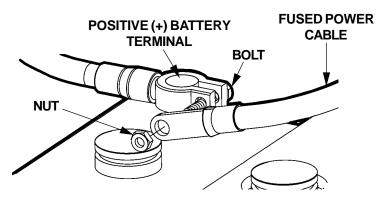


 Close Needle Valve Adjusters (FIG. 8-2B & 2C) by turning clockwise. Then close Hydraulic Lock by turning Knob until it drops in the top of the Poppet Valve (FIG. 8-3).

> OPENING HYDRAULIC LOCK FIG. 8-3

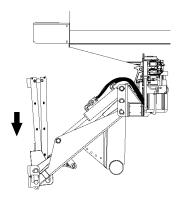
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Reconnect power to Liftgate by removing nut from positive (+) battery terminal connector and connecting Power Cable (FIG. 9-1). Reinstall nut on positive (+) battery terminal connector.



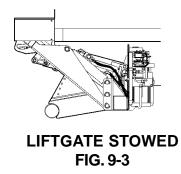
CONNECTING BATTERY FIG. 9-1

14. Use the Control Switch to **LOWER** Platform to the ground **(FIG. 9-2)**.



PLATFORM LOWERED TO THE GROUND FIG. 9-2

15. Use Control Switch to Stow Liftgate (FIG. 9-3).



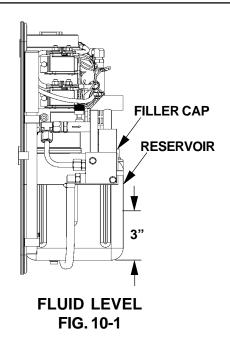
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CAUTION

Keep dirt, water and other contaminants from entering the hydraulic system. Before opening the hydraulic fluid reservoir filler cap, drain plug and hydraulic lines, clean up contaminants that can get in the openings. Also, protect the openings from accidental contamination.

NOTE: Use correct grade of hydraulic fluid for your location.

- +70 to +140 Degrees F Grade ISO 32 +40 to +105 Degrees F - Grade ISO 15 Below + 70 Degrees F - Grade ISO 10 or MIL-H-5606 See TABLES 9-1, 9-2 & 9-3 on the next page for recommended brands.
- Check the Hydraulic Fluid level in Reservoir. With Liftgate stowed, level should be 3" (FIG. 10-1). If needed, add fluid to the Reservoir as follows.
- Pull out (no threads) Filler Cap (FIG. 10-1). Fill the Reservoir with Hydraulic Fluid to level shown in FIG. 10-1. Reinstall Filler Cap (FIG. 10-1)



CAUTION

Pump Cover must be correctly secured to prevent it from becoming a hazard. To secure Pump Cover, the long side of the Holder Flats must be installed as shown in the illustration.

18. Bolt on the Pump Cover as shown in FIG. 10-2. Torque the 5/16"-18 cover bolts 20 to 29 LBS.-FT.

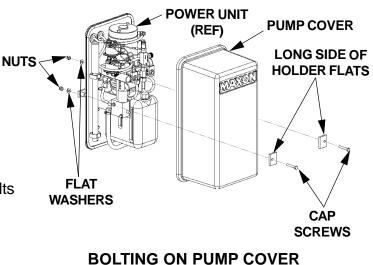


FIG. 10-2

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ISO 32 HYDRAULIC OIL		
RECOMMENDED BRANDS	PART NUMBER	
AMSOIL	AWH-05	
CHEVRON	HIPERSYN 32	
KENDALL	GOLDEN MV	
SHELL	TELLUS T-32	
EXXON	UNIVIS N-32	
MOBIL	DTE-13M, DTE-24, HYDRAULIC OIL-13	

TABLE 11-1

ISO 15 HYDRAULIC OIL		
RECOMMENDED BRANDS	PART NUMBER	
AMSOIL	AWF-05	
CHEVRON	FLUID A, AW-MV-15	
KENDALL	GLACIAL BLU	
SHELL	TELLUS T-15	
EXXON	UNIVIS HVI-13	
MOBIL	DTE-11M	

TABLE 11-2

ISO-10 OR MIL-H-5606 HYDRAULIC FLUID		
RECOMMENDED BRANDS	PART NUMBER	
AMSOIL	N/A	
CHEVRON	FLUID A, FLUID G	
KENDALL	GLACIAL BLU	
SHELL	AEROSHELL FLUID-41	
EXXON	UNIVIS HVI-13	
MOBIL	AERO HFA	

TABLE 11-3