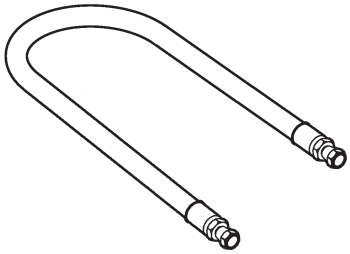
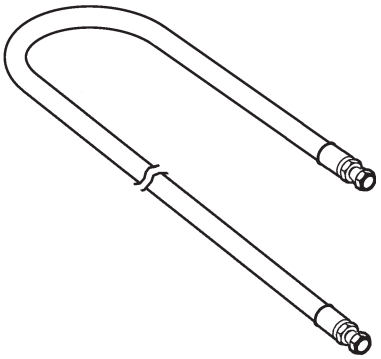
INSTRUCTION, CURRENT GPT HOSE RETROFIT KIT

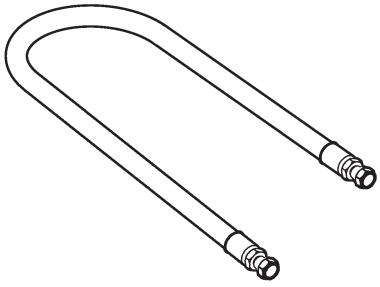
Kit P/N 283372-01 (FOR GPT-25, GPT-3 & GPTWR-3)



HP HOSE, 3/8" I.D. X 36" LG,
SAE #6-6 FACE SEAL O-RING
P/N 283374-01
QTY. 1



HP HOSE, 3/8" I.D. X 109" LG,
SAE #8-6 FACE SEAL O-RING
P/N 283375-01
QTY. 1

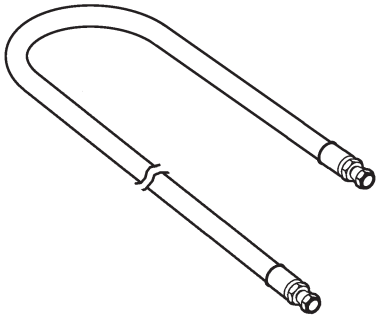


HP HOSE, 3/8" I.D. X 42-1/2" LG,
SAE #8-6 FACE SEAL O-RING
P/N 283375-02
QTY. 1

O-RING, #6
(3/8" FACE SEAL)
P/N 906712-02
QTY. 6

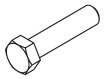
O-RING, #8
(1/2" FACE SEAL)
P/N 906712-03
QTY. 2

CONNECTOR, SAE #8 FS,
#6 O-RING, M-M
P/N 906762-01
QTY. 1



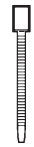
HP HOSE, 3/3" I.D. X 104" LG,
SAE #6-6 FACE SEAL O-RING
P/N 283376-01
QTY. 1

PIN WELDMENT,
3-5/8" LG.
P/N 228922
QTY. 2

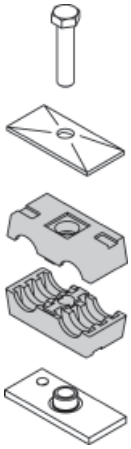


BOLT, 3/8"-24 X 1-1/4" LG,
GRADE 8
P/N 030035
QTY. 2

LOCK NUT,
3/8"-24, THIN
P/N 226941
QTY. 2

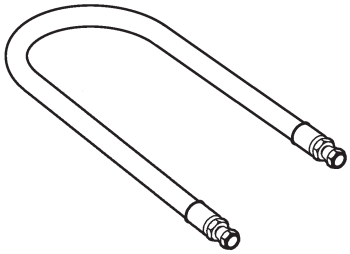


PLASTIC TIE, 7" LG.
P/N 905322-01
QTY. 20

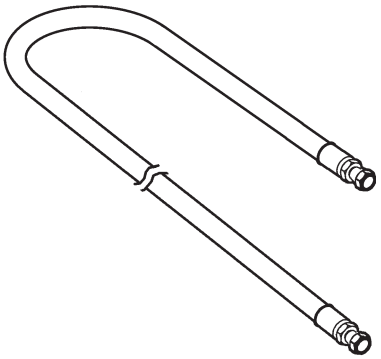


CLAMP, DUAL TUBE
P/N 262415
QTY. 2

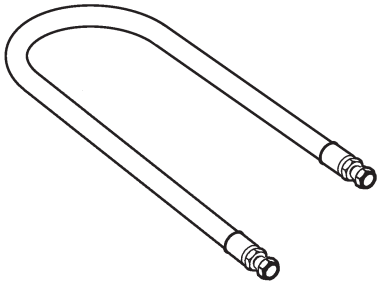
Kit P/N 283372-02 (FOR GPT-4 & GPT-5)



HP HOSE, 3/8" I.D. X 38" LG,
SAE #6-6 FACE SEAL O-RING
P/N 283374-02
QTY. 1



HP HOSE, 3/8" I.D. X 109" LG,
SAE #8-6 FACE SEAL O-RING
P/N 283375-01
QTY. 1

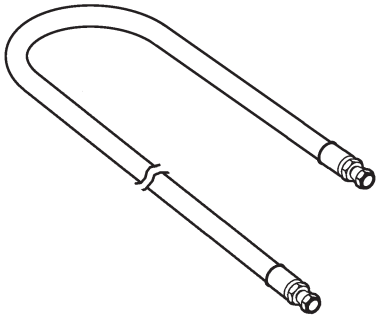


HP HOSE, 3/8" I.D. X 44-1/2" LG,
SAE #8-6 FACE SEAL O-RING
P/N 283375-03
QTY. 1

O-RING, #6
(3/8" FACE SEAL)
P/N 906712-02
QTY. 6

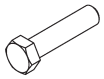
O-RING, #8
(1/2" FACE SEAL)
P/N 906712-03
QTY. 2

CONNECTOR, SAE #8 FS,
#6 O-RING, M-M
P/N 906762-01
QTY. 1



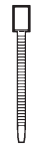
HP HOSE, 3/8" I.D. X 104" LG,
SAE #6-6 FACE SEAL O-RING
P/N 283376-01
QTY. 1

PIN WELDMENT,
4-5/8" LG.
P/N 283397-01
QTY. 2

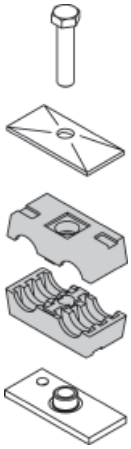


BOLT, 3/8"-24 X 1-1/4" LG,
GRADE 8
P/N 030035
QTY. 2

LOCK NUT,
3/8"-24, THIN
P/N 226941
QTY. 2



PLASTIC TIE, 7" LG.
P/N 905322-01
QTY. 20



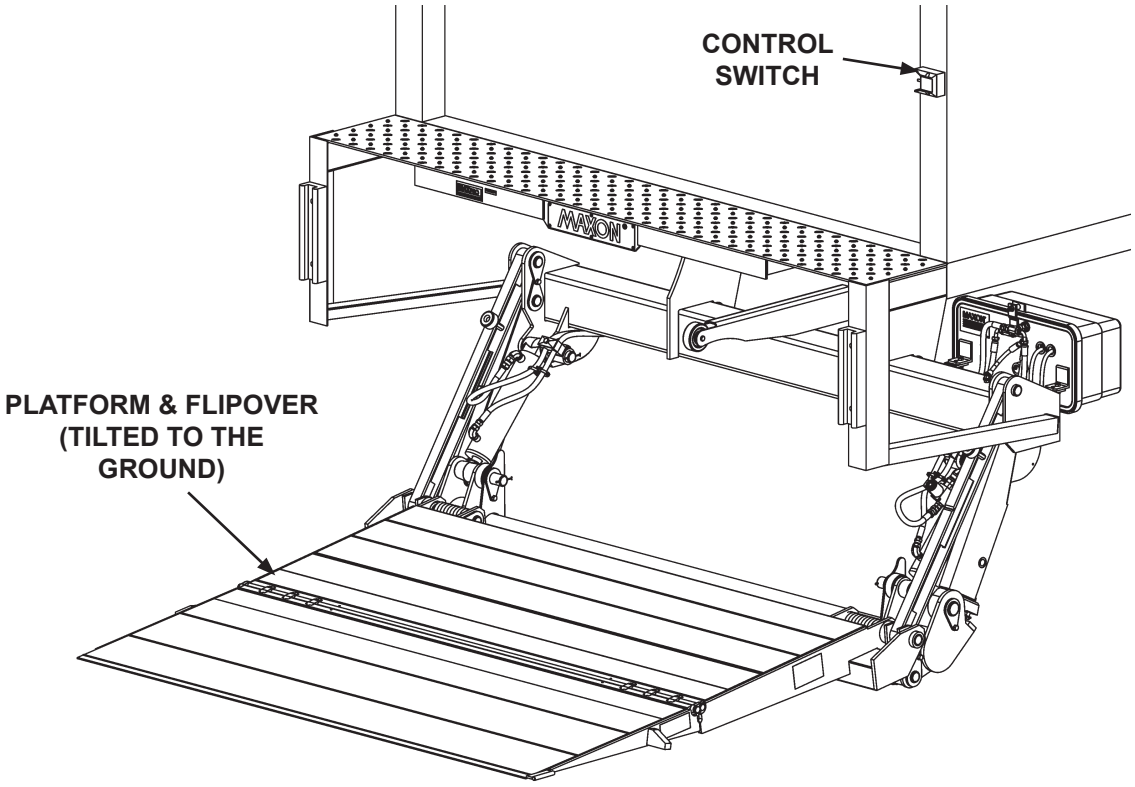
CLAMP, DUAL TUBE
P/N 262415
QTY. 2

⚠ CAUTION

To avoid personal injury and large fluid spills, ensure platform and flipover are resting on the ground and tilted down before opening high pressure hydraulic lines.

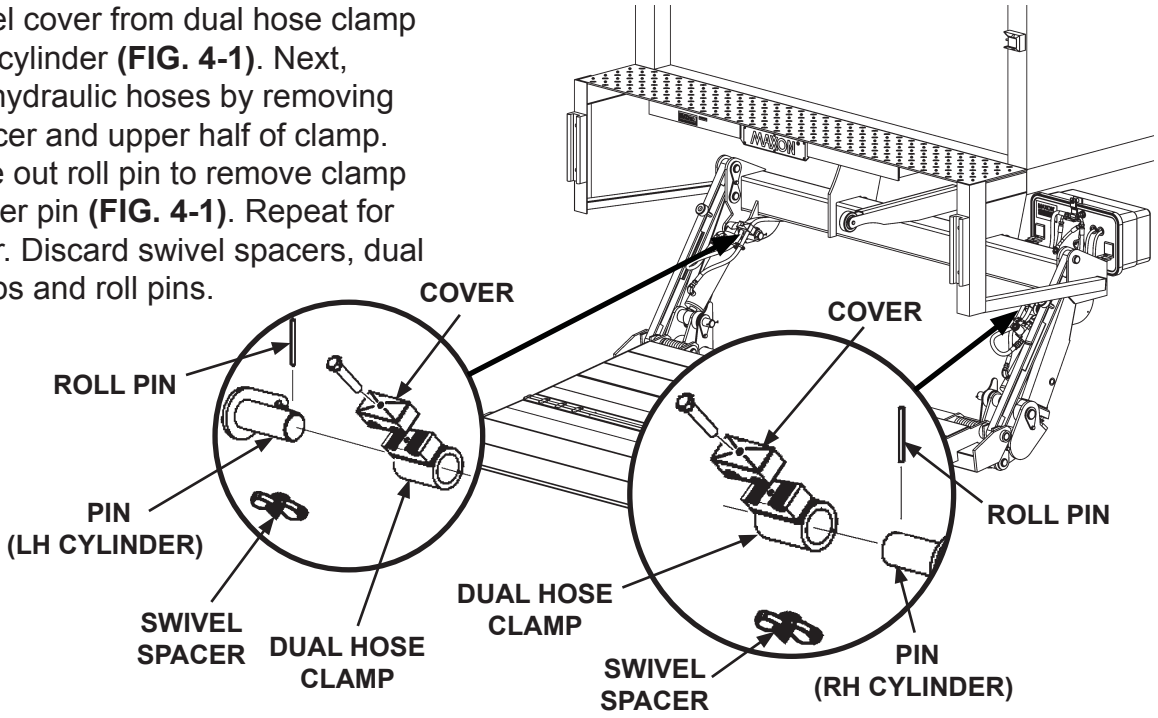
NOTE: Refer to GPT & GPTWR operation manualS for detailed operating instructions.

1. Lower platform until it rests on the ground. Then, unfold platform and flipover **(FIG. 3-1)**. Use control switch to tilt the hinge end of platform and flipover to the ground.



GPTWR-3 WITH PLATFORM OPEN, TILTED DOWN & RESTING ON THE GROUND
FIG. 3-1

2. Unbolt steel cover from dual hose clamp on the RH cylinder **(FIG. 4-1)**. Next, free the 2 hydraulic hoses by removing swivel spacer and upper half of clamp. Then, drive out roll pin to remove clamp from cylinder pin **(FIG. 4-1)**. Repeat for LH cylinder. Discard swivel spacers, dual hose clamps and roll pins.

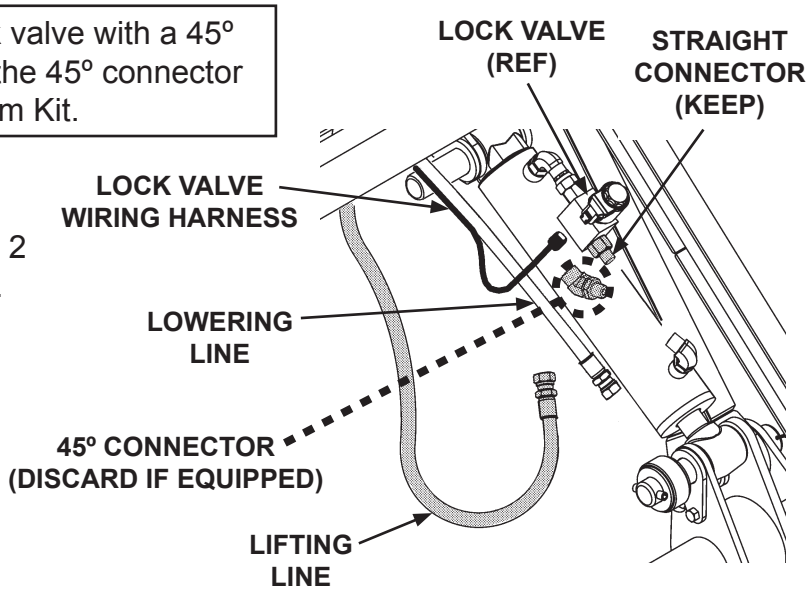


REMOVING HOSE CLAMPS FROM RH & LH CYLINDERS
FIG. 4-1

3. Disconnect lock valve wiring harness from lock valve **(FIG. 4-2)**. Cut plastic ties to separate lock valve wiring harness from hose.

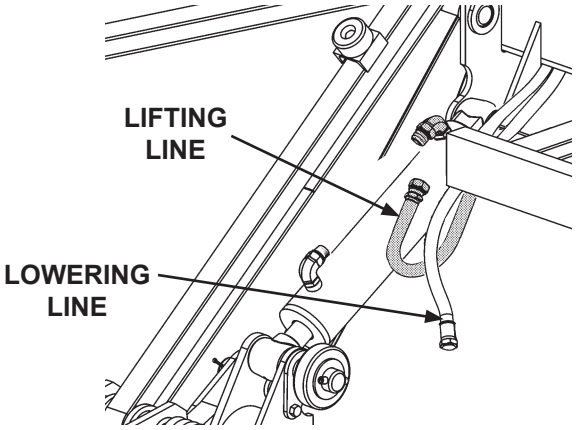
> **NOTE:** Some liftgates have a lock valve with a 45º hose connector. Replace the 45º connector with straight connector from Kit.

4. Disconnect 2 hydraulic hoses from RH cylinder **(FIG. 4-2)**. Place the open ends of both hoses in a clean 2 gallon bucket. Allow hoses to drain.



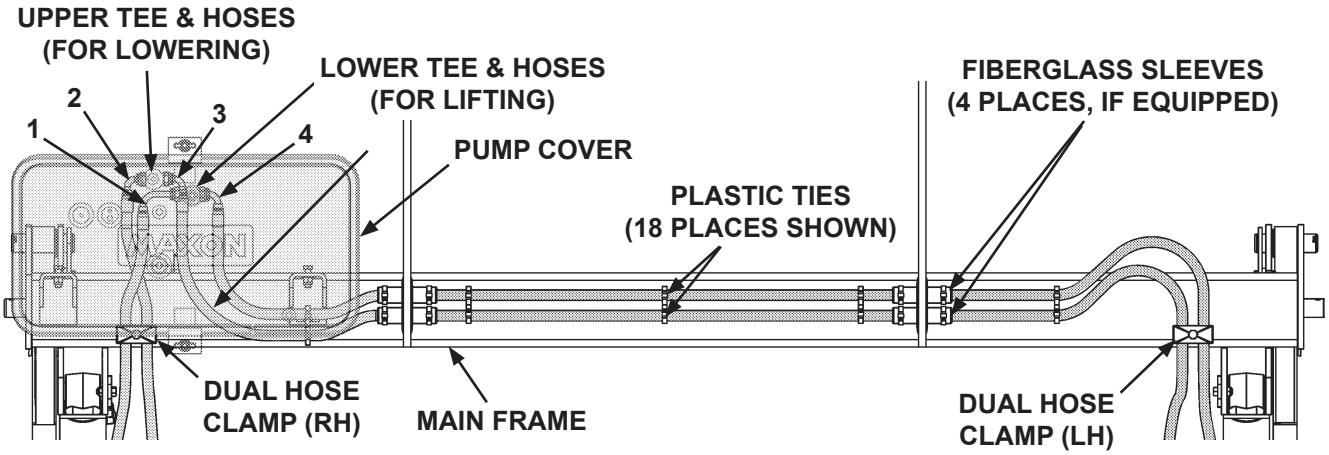
DISCONNECTING HOSES FROM RH CYLINDER
(GPT-3 SHOWN)
FIG. 4-2

5. Disconnect 2 hydraulic hoses from LH cylinder **(FIG. 5-1)**.



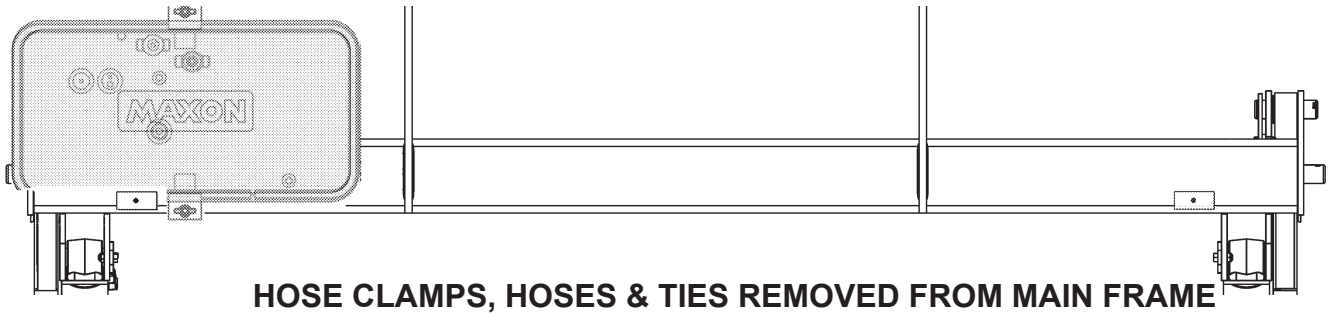
DISCONNECTING HOSES FROM LH CYLINDER (GPT-3 SHOWN) FIG. 5-1

6. Cut plastic ties that secure 2 hoses behind RH side and LH side of the main frame **(FIG. 5-2)**. Next, unbolt steel cover from RH and LH dual hose clamps behind the main frame **(FIG. 5-2)**. Then, free the 2 hydraulic hoses from each clamp by removing upper half of clamp. Discard the old steel covers, bolts, and clamp halves.



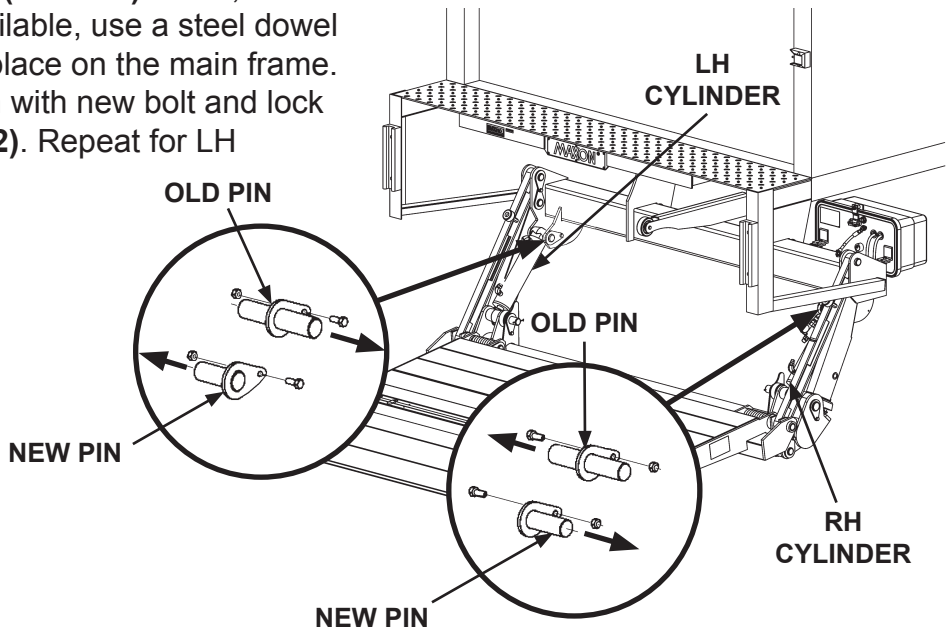
REMOVING HOSE CLAMPS, TIES & HOSES (GPT-3 SHOWN) FIG. 5-2

7. Disconnect 4 hydraulic hoses from upper tee and lower tee between the pump mounting plate and main frame **(FIG. 5-2).** Remove the 4 hydraulic hoses. Save the 4 fiberglass sleeves if desired.



HOSE CLAMPS, HOSES & TIES REMOVED FROM MAIN FRAME
FIG. 6-1

8. Unbolt RH cylinder pin **(FIG. 6-2)**. Then, drive out the pin. If available, use a steel dowel to hold the cylinder in place on the main frame. Bolt in new cylinder pin with new bolt and lock nut (Kit items) **(FIG. 6-2)**. Repeat for LH cylinder pin.



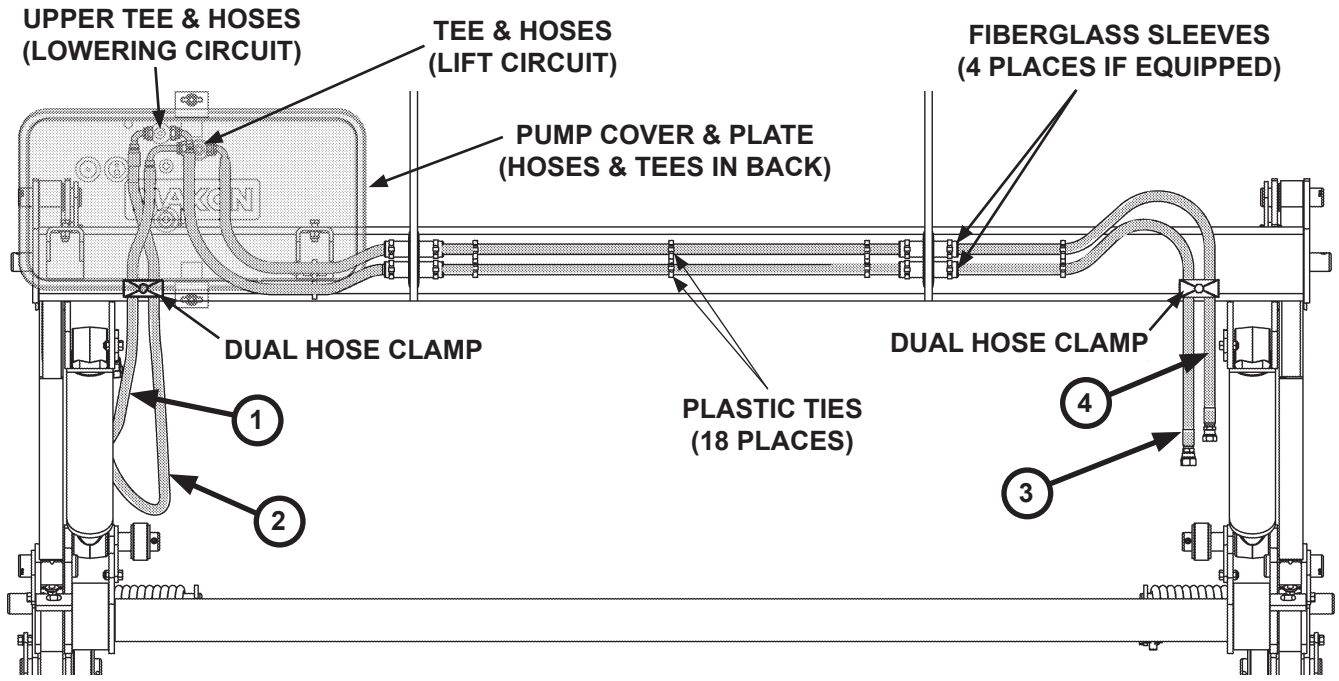
REPLACING OLD CYLINDER PINS (GPT-3 SHOWN)
FIG. 6-2

⚠ CAUTION

Always route hydraulic hoses clear of sharp edges & moving parts, including optional ICC-type of bumper. Avoid making sharp bends in hoses or twisting the hoses. Ensure the hoses do not touch each other when Liftgate is being operated or is stowed. Attach hoses securely only at the connectors and tie points.

NOTE: When connecting the new hoses**,** ensure face seal o-rings are in place on hoses and fittings. Replace O-rings (kit items) if missing.

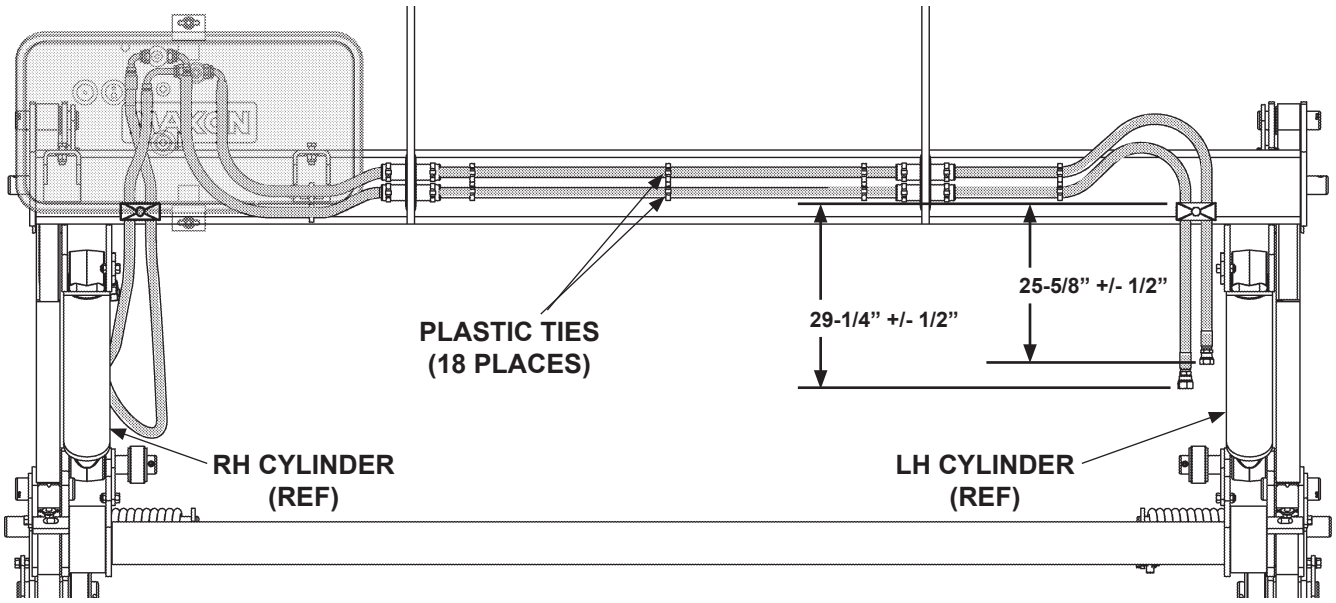
9. Refer to **FIG. 7-1** for correct hose routing and **TABLE 7-1** for the correct Kit items. Route the 4 new hydraulic hoses (Kit items) in correct position on the main frame as shown in **FIG. 7-1**. Next, connect each hose to tee **(FIG. 7-1)**. Then, loosely bolt on dual hose clamps (Kit items). Attach hoses to tie points with plastic ties, but do not tighten.



ROUTING NEW HYDRAULIC HOSES FROM KITS
(REAR VIEW OF MAIN FRAME)
FIG. 7-1

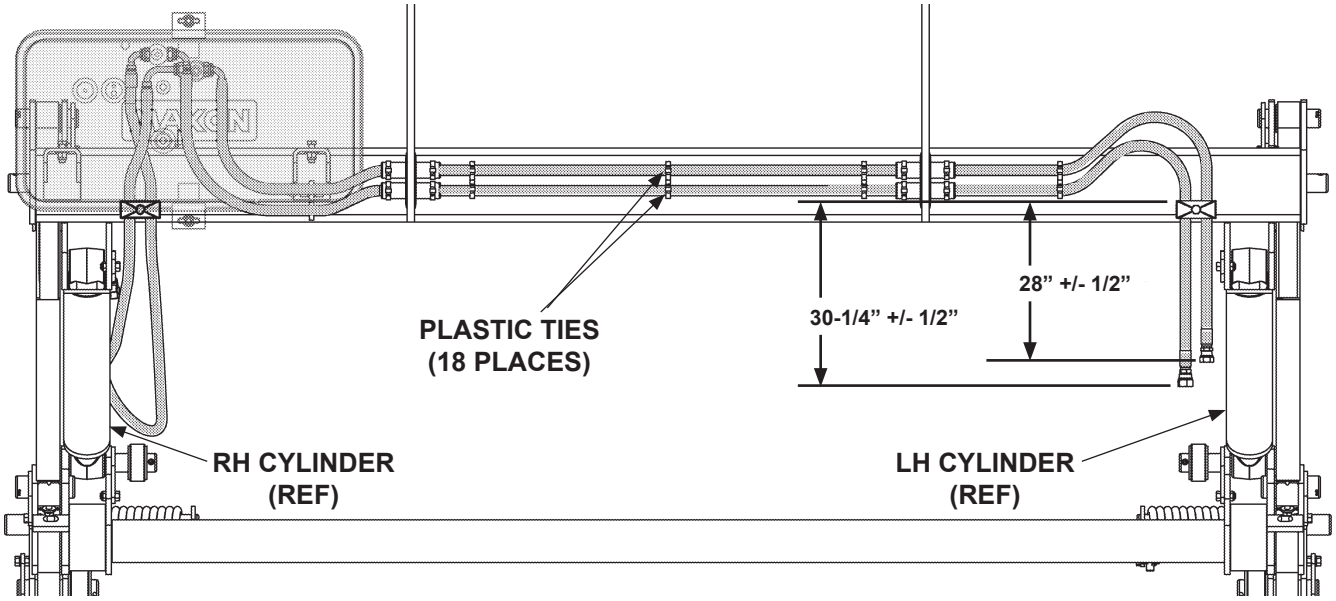
HOSE	PURPOSE	GPT-25, GPT-3 & GPTWR-3 HOSE KIT: P/N 283372-01	GPT-4 & GPT-5 HOSE KIT: P/N 283372-02
1	RH CYLINDER LIFTING LINE	36" LG, P/N 283374-01	38" LG, P/N 283374-02
2	RH CYLINDER LOWERING LINE	42-1/2" LG, P/N 283375-02	44-1/2" LG, P/N 283375-03
3	LH CYLINDER LOWERING LINE	109" LG, P/N 283375-01	109" LG, P/N 283375-01
4	LH CYLINDER LIFTING LINE	104" LG, P/N 283376-01	104" LG, P/N 283376-01

HYDRAULIC HOSE APPLICATION CHART
TABLE 7-1



POSITIONING HYDRAULIC HOSES FOR LH CYLINDER (GPT-25 & GPT-3)
FIG. 8-1

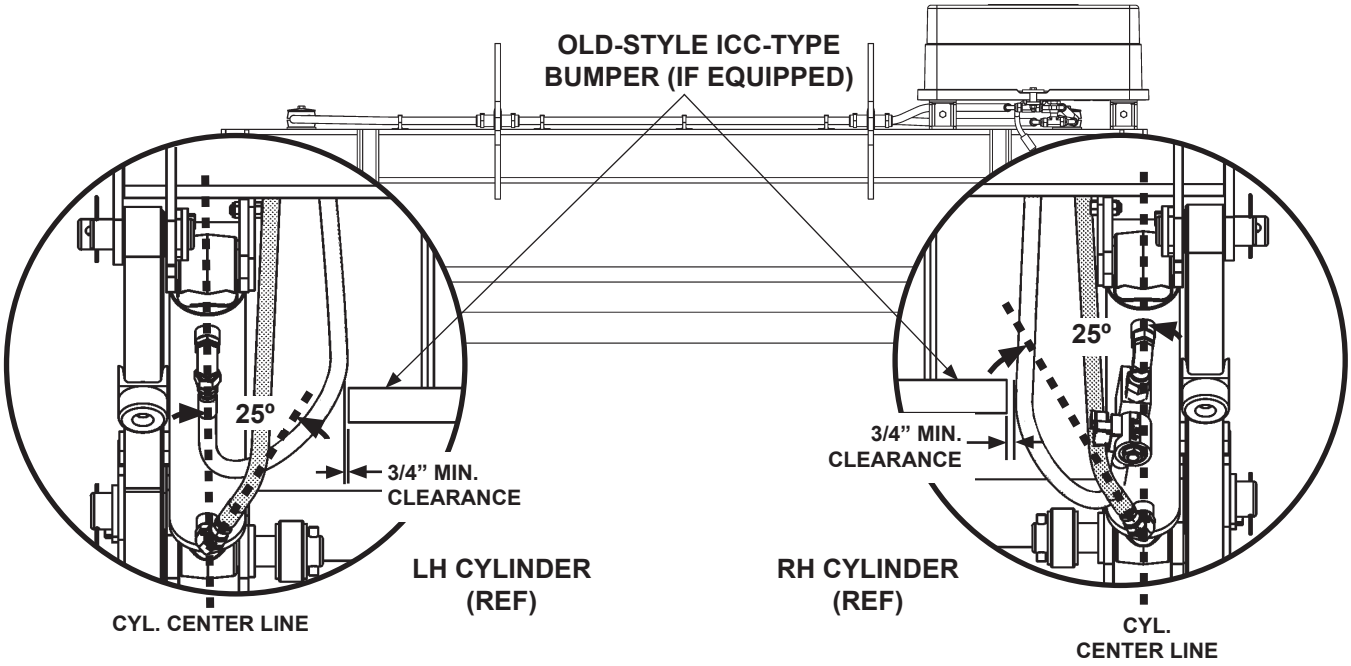
10. Refer to **FIG. 8-1** for GPT-25 and GPT-3 Liftgates or **FIG. 8-2** for GPT-4 and GPT-5 Liftgates. Pull unconnected end of each hose straight and measure to top of dual hose clamp. Adjust the position with respect to the top of hose clamp and dimensions shown in **FIGS. 8-1 or 8-2**. Tighten hose clamp bolt to hold hose in position. Secure 2 hoses to main frame with plastic ties (Kit item) **(FIGS. 8-1 or 8-2)**.



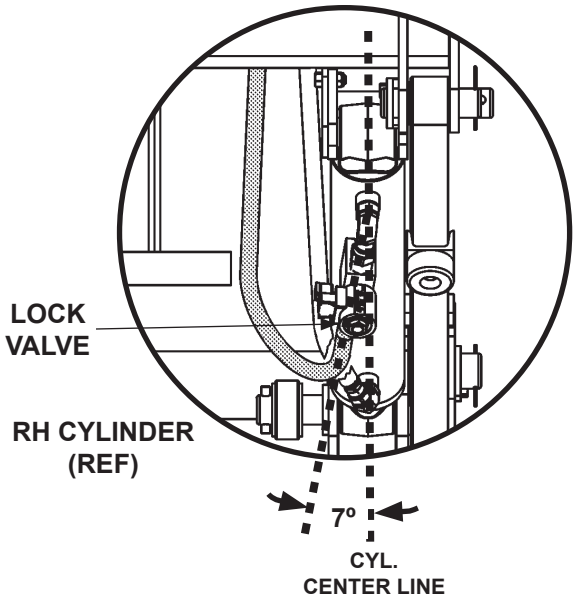
POSITIONING HYDRAULIC HOSES FOR LH CYLINDER (GPT-4 & GPT-5)
FIG. 8-2

NOTE: When tightening hose connections, hold the clearances shown in the illustrations to prevent the hoses from touching, twisting, or hitting the ICC-type bumper (if equipped). Angle data is for reference only. Position hoses as necessary to prevent interference

NOTE: When connecting the new hoses**,** ensure face seal o-rings are in place.

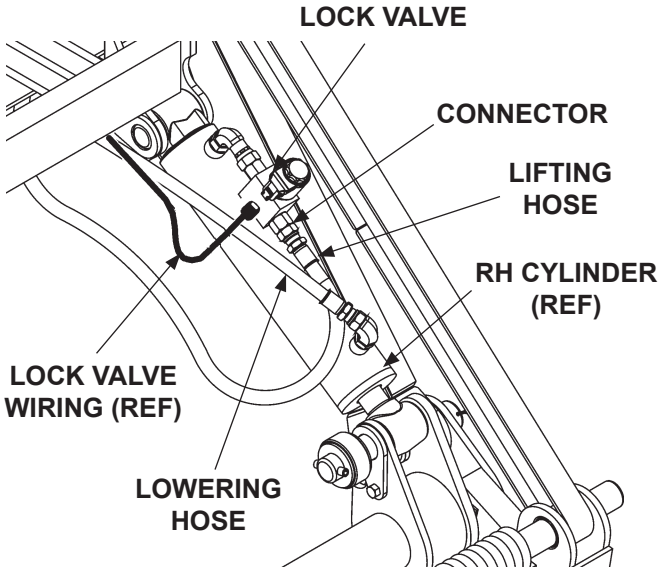


11. Connect hydraulic hoses to RH and LH cylinders as shown in **FIG. 9-1.** Position the 2 elbows on each cylinder as shown and tighten securely. Then connect the 4 hydraulic hoses. On the RH cylinder, connect the lifting hose and connector (Kit item) to hydraulic lock valve **(FIG. 9-1)**. If equipped with old-style ICC-type bumper, set the clearances shown in **FIG. 9-1** to prevent the hoses from touching, twisting, and hitting the bumper.



CONNECTING NEW HYDRAULIC HOSES TO CYLINDERS (TOP VIEW SHOWN) FIG. 9-1

12. Reconnect wiring harness to coil on hydraulic lock valve **(FIG. 10-1)**. Then, secure wiring harness to lowering hose with plastic ties.

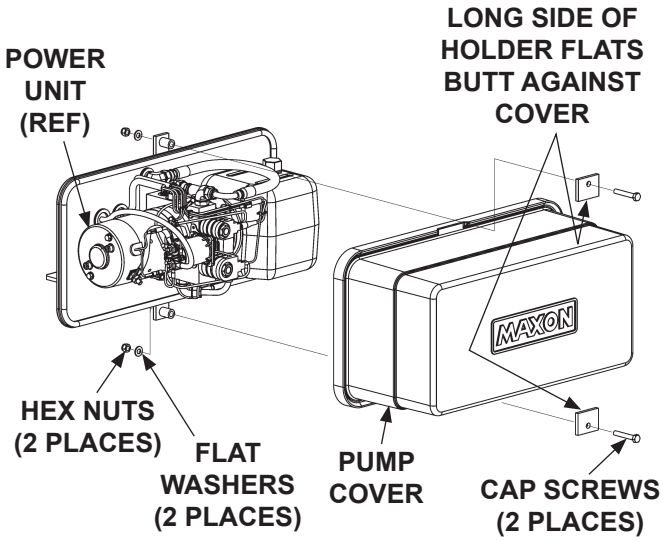


RECONNECTING LOCK VALVE WIRING
FIG. 10-1

13. Check hoses again to ensure connections are tight and there is no twisting or interference. Then, ensure clamp bolts and plastic ties are tightened securely.

14. Bleed the air from hydraulic system. Then, with the platform on the ground, use the following steps to check the level of hydraulic fluid in the pump reservoir.

15. Open pump cover **(FIG. 10-2)**.



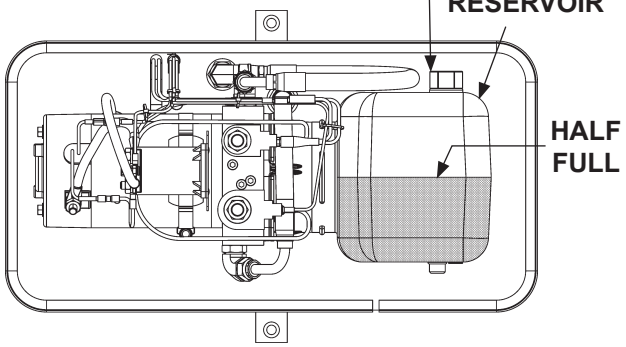
UNBOLTING / BOLTING PUMP COVER
FIG. 10-2

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

+50 to +120 Degrees F - Grade ISO 32
Below + 70 Degrees F - Grade ISO 15 or MIL-H-5606

See **TABLES 11-1 & 11-2** for recommended brands.

16. Check the hydraulic fluid level in the pump reservoir **(FIG. 11-1)**. If fluid is below half full, remove the filler cap **(FIG. 11-1)**. Then, fill reservoir to half full with correct grade of hydraulic fluid **(FIG. 11-1)**.



CHECKING HYDRAULIC FLUID LEVEL
FIG. 11-1

NOTE: If the hydraulic fluid in the reservoir is contaminated, do the **CHANGING HYDRAULIC FLUID** procedure in maintenance manual.

17. Reinstall the filler cap **(FIG. 11-1)**.

18. Close pump cover **(FIG. 10-2)**.

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 OR MIL-H-5606 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
ROSEMEAD	THS FLUID 17111

TABLE 11-2