



IK001736

Date:



PRODUCT SAFETY ALERT

Air Brake Lines Replacement Kit

Model	Serial Numbers		Kit # Version
	Including	Excluding	
R9X12T	101 – 118	117	IK01
Mandatory ☒ Recommended ☐ Optional ☐			
Dealer Reference: Service Bulletin No. SVC2012088			

PURPOSE:

BRAKE LINE FAILURE MAY OCCUR. The design of the R9X12T rear axle did not provide adequate clearance between the frame crossmember and the air brake lines. If the air brake lines are damaged, the brakes will not work properly. A partial or complete loss of trailer braking capability may occur. If trailer braking capability is reduced or lost, loss of vehicle control may result while towing on a public highway. **Death or serious injury is possible.** Property or equipment damage is also possible.

This kit provides parts and instructions to replace and reroute the air brake lines.

SPECIAL TOOLS AND CONDITIONS:

- Drill with 13/32" bit



WARNING: Use the following shutdown procedure before attempting to do any work described in this Kit.

1. Shut off drilling fluid pump.
2. Drain all tanks.
3. Lift front of machine with hydraulic jacks to fully extended position.
4. Shut off engine.
5. Turn ground disconnect switch to OFF position.
6. Open bleeder valve on rear air tank fully to de-pressurize brake system.

PROCEDURE 1: IK01

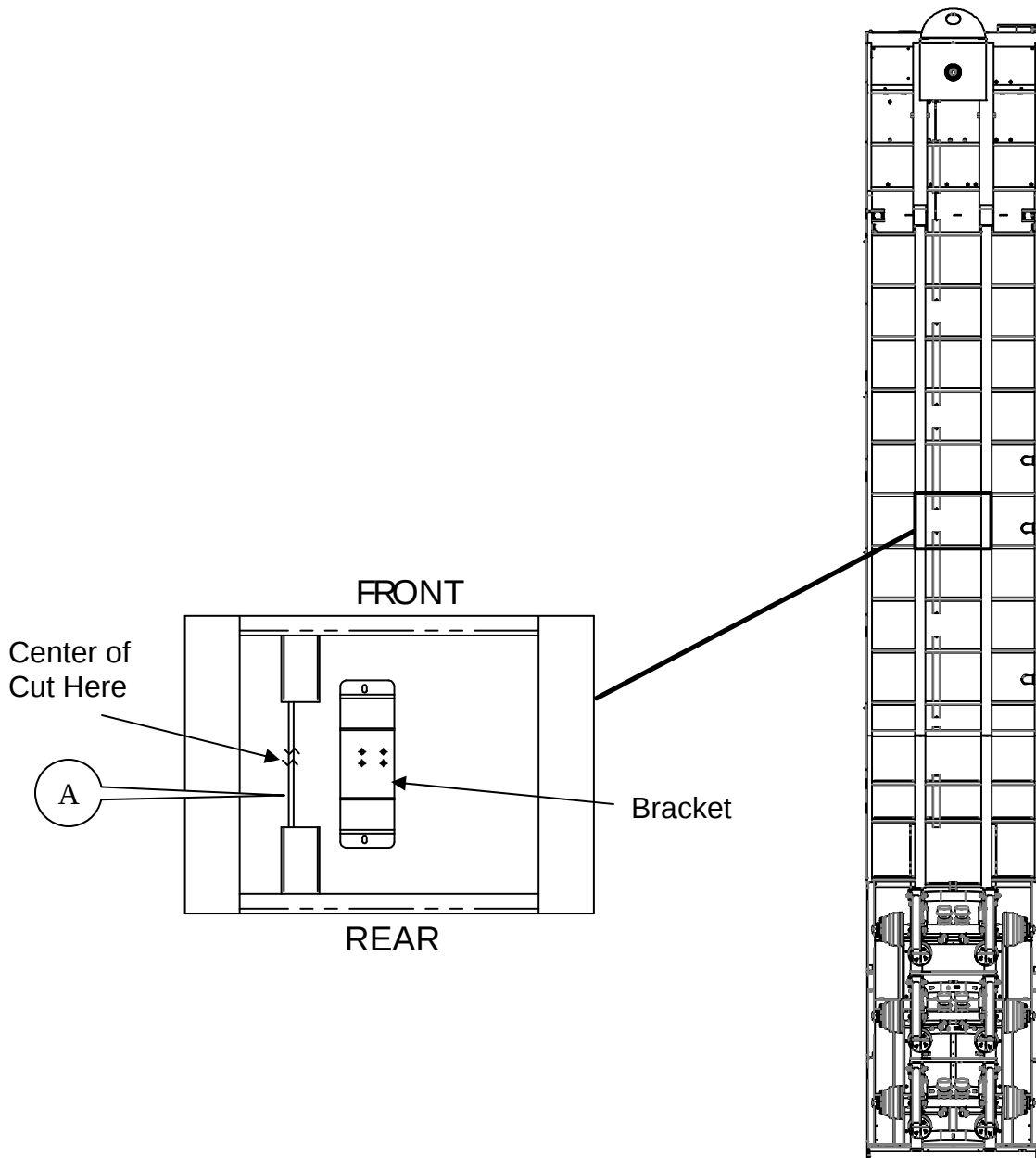
		WARNING: Raised machine or equipment can fall. Never work under raised machine or equipment, unless it is adequately supported to prevent it from falling.
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1. Place suitable supports or blocks under front of machine. Chock wheels.
2. Install fittings (Ref. 7 and 8) in valve (Ref. 2). Disassemble fittings (Ref. 5 and 9), install threaded part in valve and set aside other parts of fitting. Refer to

Figure 2.

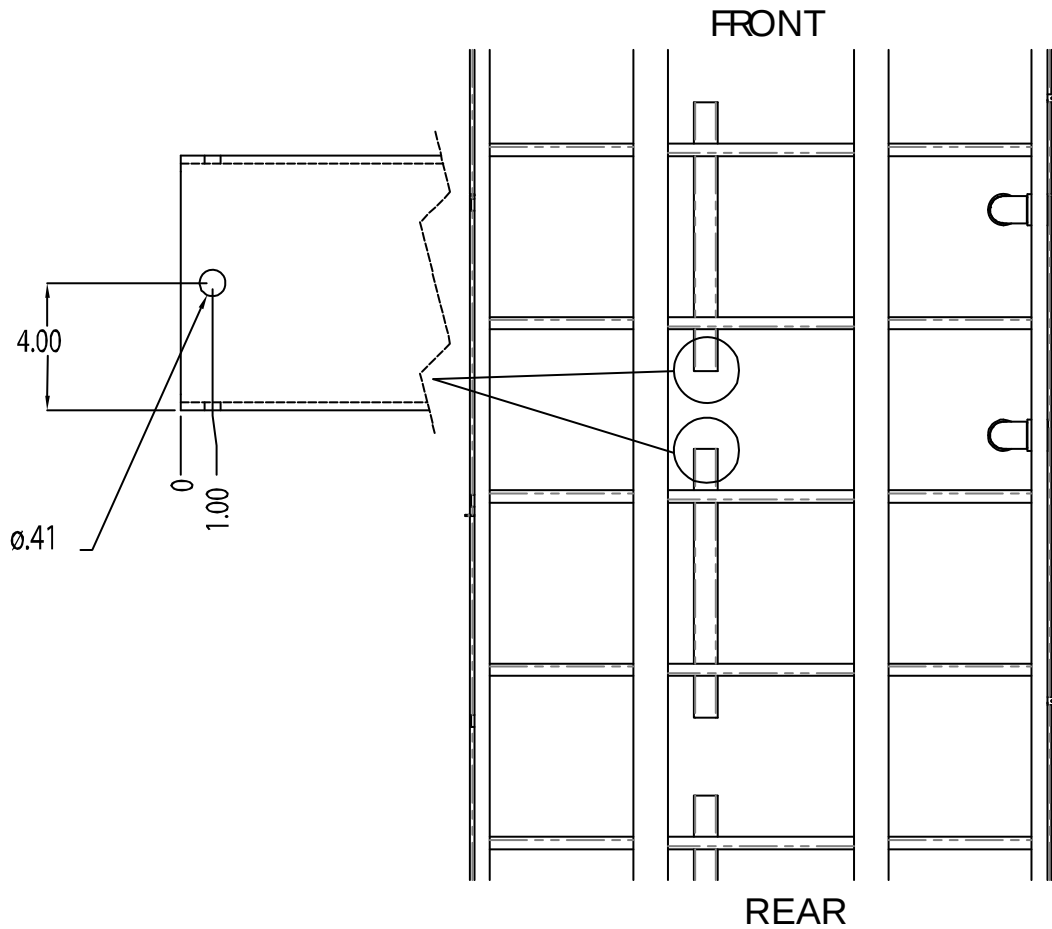
3. Attach valve to bracket (Ref. 1), using bolts (Ref. 3) and nuts (Ref. 4), as shown in Figure 2.
4. Hold air valve booster bracket (Ref. 1, Figure 2) in place between conduit tubes under middle tank (desander). Cut away no more than 3" (76 mm) of 3/8" diameter blue air hose (Ref. A). For position, refer to Figure A.

FIGURE A



5. Drill two 13/32" holes for 3/8" bolts in conduit tubes, as shown in Figure B.

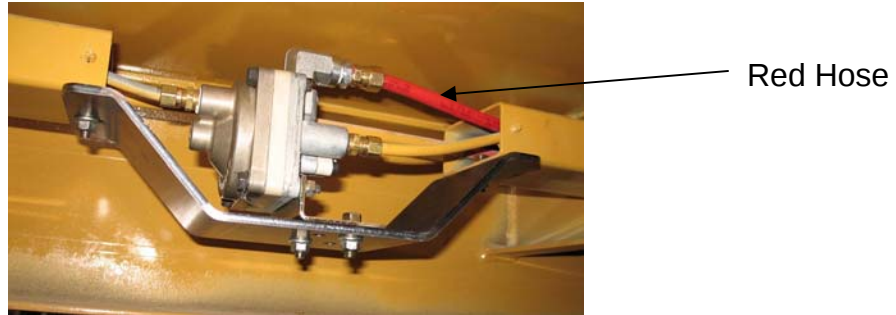
FIGURE B



6. Install bracket (Ref. 1) between conduit tubes, using bolts (Ref. 3) and nuts (Ref. 4). Refer to Figure 2.
7. Install previously set aside parts of fittings (Ref. 5) on existing blue hose. Connect blue hose to front and back ports of valve. Refer to Figure 2.
8. Install previously set aside parts of fitting (Ref. 9) on one end of red hose (Ref. 10). Connect red hose to top port of valve. Refer to Figure 2.

9. Route red hose from valve through conduit tubes over top of front air tank and secure. Refer to Figure 1. Leave length of hose for later step.

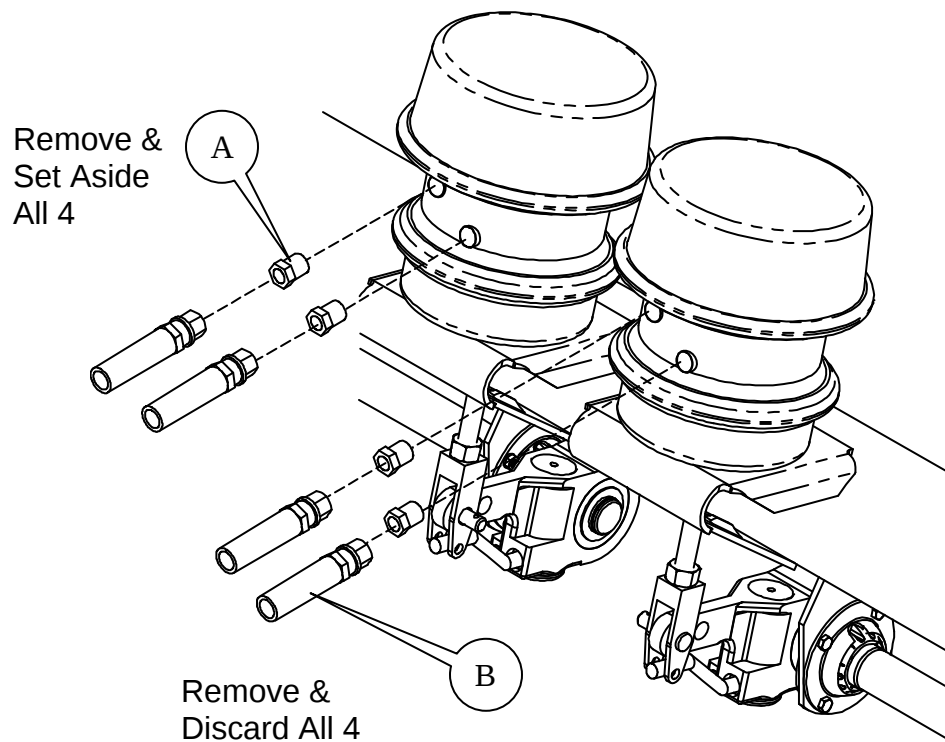
FIGURE 1



10. Turn ground disconnect switch to ON position. Start engine.
11. Remove supports from front of machine.
12. Lower front of machine with hydraulic jacks to fully retracted position. Turn off engine. Turn ground disconnect switch to OFF position.

13. Remove and set aside fittings (Ref. A) from air brake chambers on rear axle. Remove and discard hoses (Ref. B) from air brake chambers to ABS valve and brake control valve. Note port locations on valves and air brake chambers for later. Refer to Figure C.

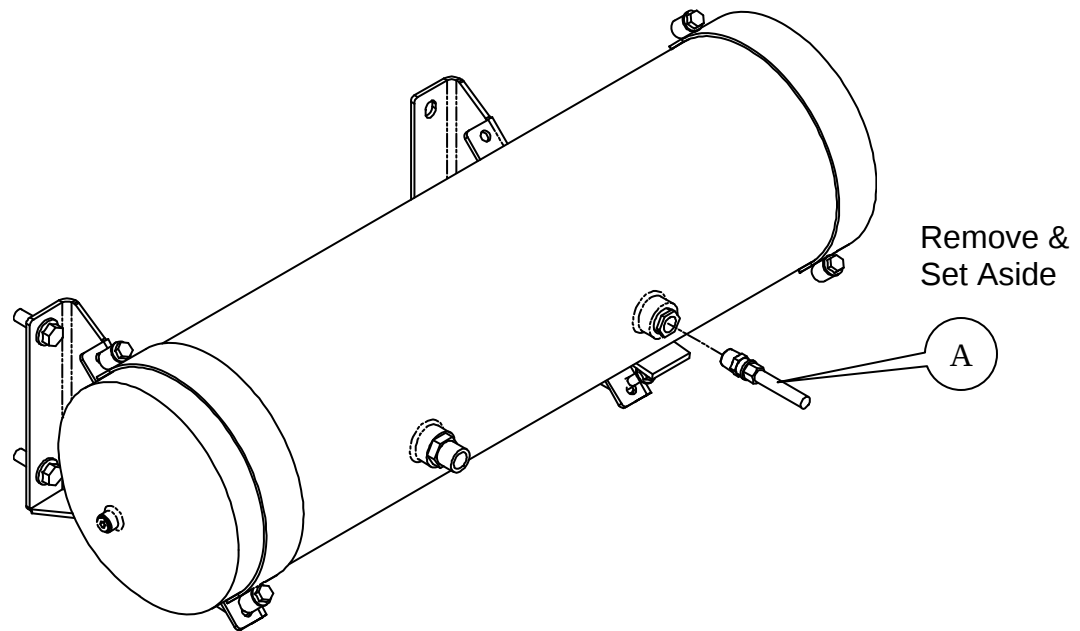
FIGURE C



14. Install fittings (Ref. 1) in air brake chambers. Install existing fittings on fittings (Ref. 1). Refer to Figure 3.
15. Connect hoses (Ref. 2, 3 and 4, Figure 3) from ABS valve and brake control valve to air brake chambers.

16. Remove and set aside hose (Ref. A) at front air tank, as shown in Figure D.

FIGURE D



17. Install T-fitting (Ref. 1) in existing fitting of air tank. Install existing hose in end of T-fitting. Refer to Figure 4.

18. Disassemble fitting (Ref. 2), install threaded part in top of T-fitting (Ref. 1). Install rest of fitting (Ref. 2) on red hose (Ref. 10, Figure 2). Connect red hose. Refer to Figure 4.

19. Connect machine to tractor and use air compressor to pressurize air brake system.

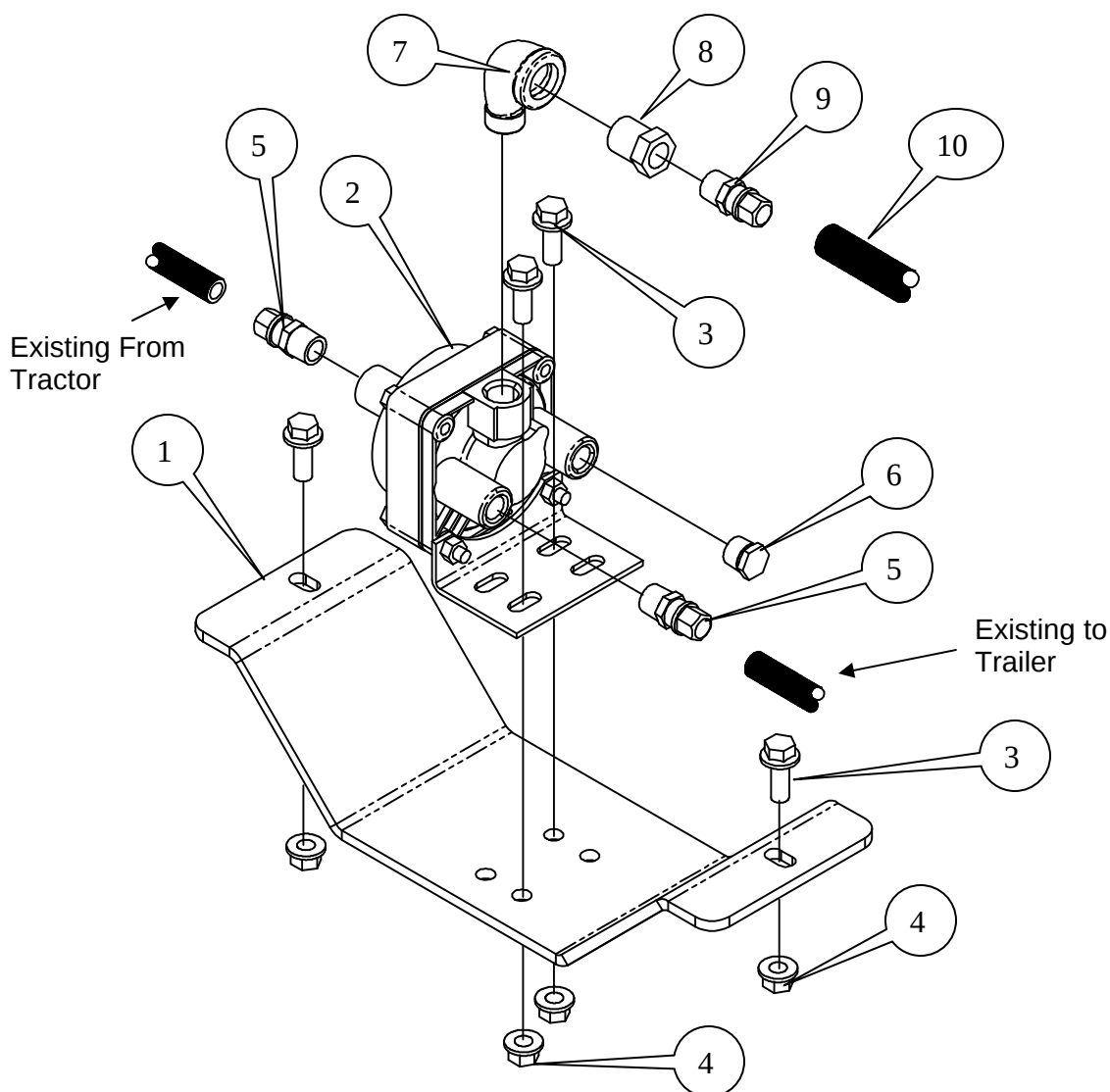
20. Close bleeder valve on rear air tank.

21. Test brakes before returning machine to service.

22. Please complete and submit work completion card (Ref. 1, Figure 5).

23. Remove Figures 2 – 4 and provide to unit owner to place with existing Parts Manual. The delivery of these pages to the unit owner can be accomplished by attaching the pages to the customer's copy of the Invoice or placing the pages in the unit's manual storage box.

FIGURE 2

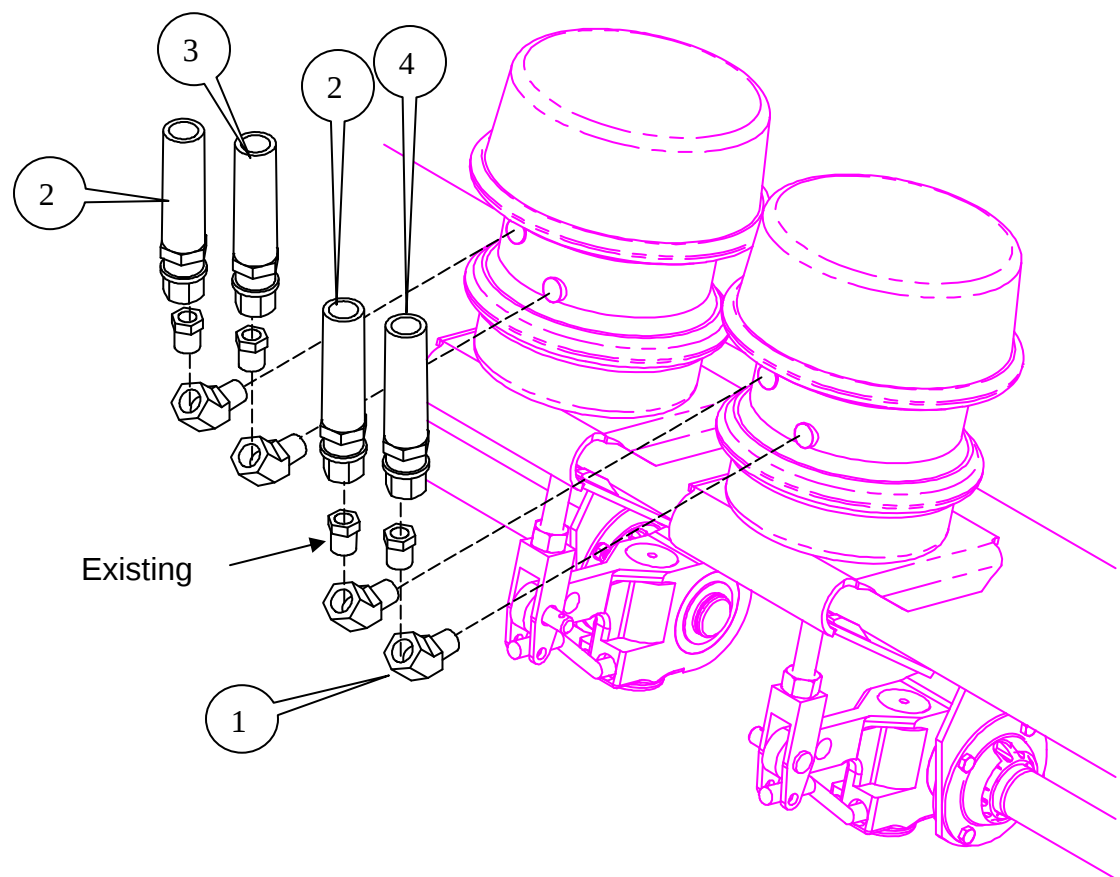


UNIT OWNER COPY: Insert in Parts Manual for future reference.

FIGURE 2

REF. NO.	PART NO.	DESCRIPTION	QTY.
1	296390032	BRACKET - AIR VALVE BOOSTER	1
2	296506750	VALVE CONTROL LINE	1
3	296300772	SCREW-HFS-.38-16X1.00-GR8-YZ	4
4	296300850	NUT-HEXFLGTL-.38-16-G-YZ	4
5	296506756	FITTING - TUBE - 606MNPT-STR	2
6	732005	PLUG-3/8" PIPE PLUG BLACK STEEL	1
7	716021	FITTING-1/2X90 DEG ST ELBOW GALV	1
8	296505139	FITTING-NIPPLE-8MNPT-6MNPT-HEX	1
9	296506755	FITTING - TUBE - 8-6MNPT - STR	1
10	296390028	HOSE-RED AIR BRAKE-1/2 X 22'	1
	IK011736	R9X12T Air Brake Lines Replacement Kit (Incl. All Items in Figure)	

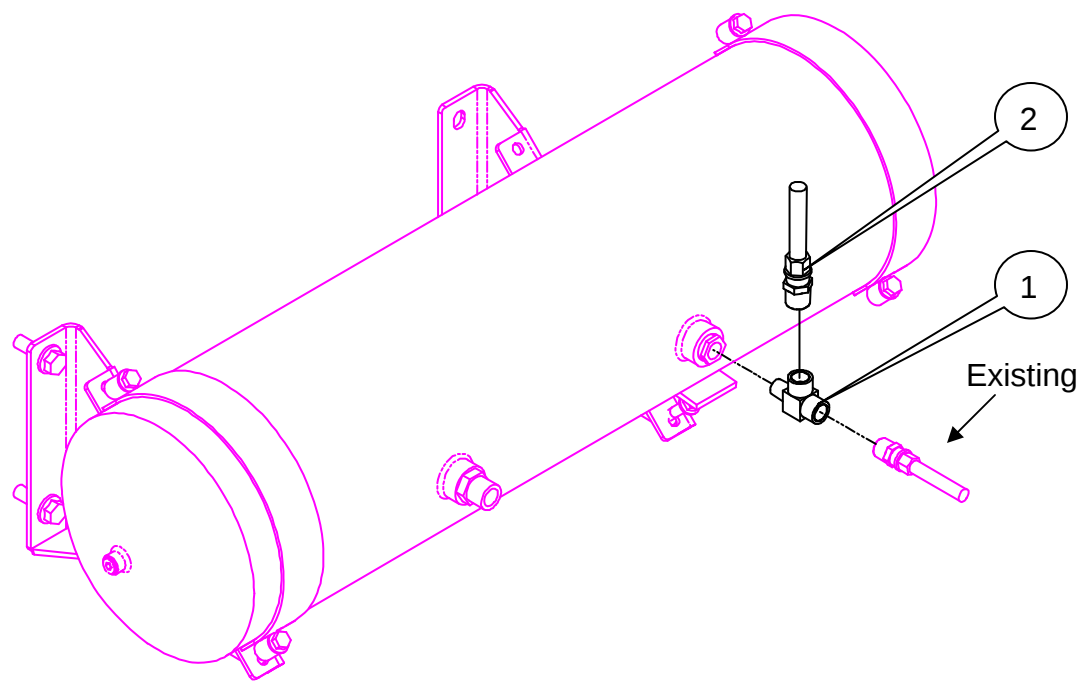
FIGURE 3



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FIGURE 3			
REF. NO.	PART NO.	DESCRIPTION	QTY.
1	621075001	FITTING-45-6MNPT-6FNPT	4
2	296506917	HOSE-AIR BRAKE-.38X65-06G-06FABX/06G-06FABX-AB	2
3	296508626	HOSE-AIR BRAKE-.38X92-06G-06FABX/06G-06FABX-AB	1
4	296506918	AIR-HOSE-.38X83-6MNSPT-6FSABS-ST/ST	1
	IK011736	R9X12T Air Brake Lines Replacement Kit (Incl. All Items in Figure)	

FIGURE 4



UNIT OWNER COPY: Insert in Parts Manual for future reference.

FIGURE 4			
REF. NO.	PART NO.	DESCRIPTION	QTY.
1	119170001	FITTING-TEE 3/8M X 3/8F X 3/8F	1
2	296506755	FITTING - TUBE - 8-6MNPT - STR	1
	IK011736	R9X12T Air Brake Lines Replacement Kit (Incl. All Items in Figure)	

FIGURE 5



UNIT OWNER COPY: Insert in Parts Manual for future reference.

FIGURE 5			
REF. NO.	PART NO.	DESCRIPTION	QTY.
1	296287039	WORK COMPLETION CERTIFICATE - SAFETY KIT	1
	IK011736	R9X12T Air Brake Lines Replacement Kit (Incl. Item in Figure)	