



Recall Service Bulletin



DATE: 7/23/19

APPLIES TO: This Recall service bulletin applies to certain 2018 and 2019 model year Gladiator and MetroStar model Emergency Response chassis cabs built between January 9, 2019 and March 12, 2019.

NHTSA/TC Id: 19V-360

CONDITION: Certain vehicle configurations fail to meet service brake application timing requirements identified in Federal Motor Vehicle Safety Standard No. 121- Air brake systems.

CORRECTION: Remove and replace Relay Valve

LABOR ALLOCATION: 1h for R&R of relay valve

CLASSIFICATION: V3

PARTS NEEDED:

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	S-2709-001	Kit- Service, Relay Valve, Fire Truck

Kit # S-2709-001 Contains:

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	0918-MM5-017	Valve, Relay 0 PSI Crack
1	RSB19-330-005	Instruction Document
1	RSB19-330-006	Instruction Document

GENERAL INSTRUCTIONS:

Thoroughly review entire service bulletin before starting work. If there are questions or concerns with steps defined in this service bulletin, contact Spartan Motors USA, Inc. Customer & Product Support Group.

All applicable industry safety standards must be followed when performing work identified in this procedure.

Service Bulletins are intended for use by Professional Technicians only. They are written to guide Professional Technicians in performing service to vehicles of specific nature in conjunction with industry standards. Professional Technicians are appropriately trained on industry standards and have the tools and equipment to perform procedures safely and properly.



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STEP-BY-STEP INSTRUCTIONS:

1. Tilt Firetruck cab. Make sure of the following before tilting cab:
 - Secure all items in cab
 - Check for clearances around cab
 - Make sure cab is tilted high enough to engage safety latch
2. Locate relay valve located behind drive side step well. Refer to FIG. 2-1.

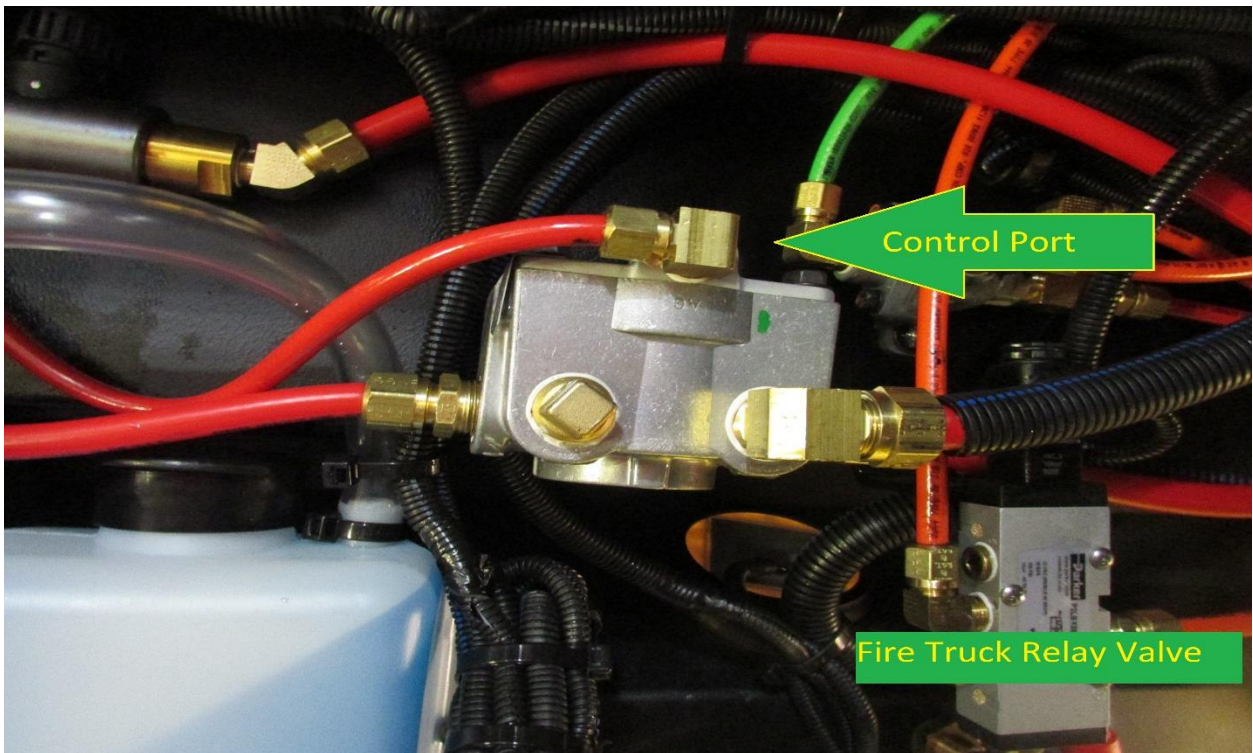


FIG. 2-1

3. Remove relay valve. Be sure to mark all hoses for reinstallation.
4. Install new relay valve per Diagram 1.
 - a. Torque 5/16-18 nuts to 119 lbf-in.
5. Refer to Appendix A for fitting installation instructions.

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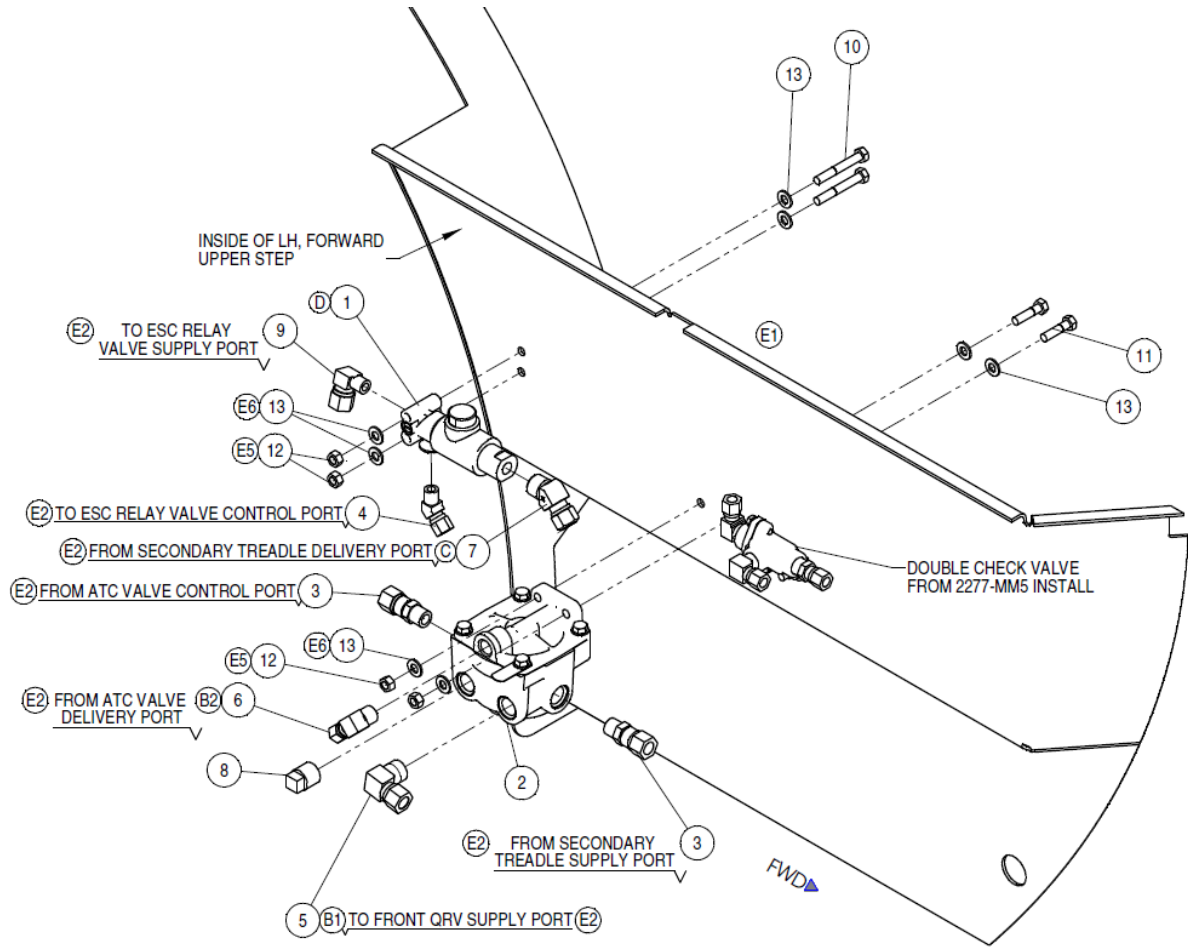


Diagram 1

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Appendix A Fitting Installation

TABLE 7: TAPERED PIPE THREAD SIZE (BRASS & STEEL)				
DASH SIZE	NPTF	T.F.F.T.		
-2	1/8 - 27	2	-	3
-4	1/4 - 18	2	-	3
-6	3/8 - 18	2	-	3
-8	1/2 - 14	2	-	3
-12	3/4 - 14	2	-	3
-16	1 - 11	1.5	-	2.5
-20	1-1/4 - 11	1.5	-	2.5
-24	1-1/2 - 11	1.5	-	2.5
-32	2 - 11	1.5	-	2.5
-	3 - 8	1.5	-	2.5

PER PARKER BULLETIN 4300-DT
12-04

TAPERED PIPE THREAD

1. INSPECT PORT AND CONNECTORS TO ENSURE THAT THREADS ON BOTH ARE FREE OF DIRT, BURRS AND EXCESSIVE NICKS.
2. APPLY PIPE THREAD SEALER W/ TEFLON AS REQUIRED TO PIPE THREADS ONLY. THE FIRST THREE THREADS SHOULD BE LEFT UNCOVERED TO AVOID SYSTEM CONTAMINATION.
3. TURN THE CONNECTOR INTO THE PORT TO THE FINGER TIGHT POSITION.
4. WRENCH TIGHTEN THE CONNECTOR TO THE APPROPRIATE TURNS FROM FINGER TIGHT (T.F.F.T.)
5. TYPICALLY, A PROPER THREAD ENGAGEMENT WOULD BE BETWEEN 3-1/2 AND 6 THREADS. IN CASES WHERE THREAD ENGAGEMENT IS LESS THAN 3-1/2, TIGHTEN THE CONNECTOR FURTHER, BUT NO LESS THAN ONE FULL TURN. IF THE THREAD ENGAGEMENT IS GREATER THAN 6 THREADS, CHECK BOTH PARTS AND REPLACE ANY PART WITH OUT OF TOLERANCE THREADS.

TTFT= TURNS FROM FINGER TIGHT
FFWR= FLATS FROM WRENCH RESISTANCE

TABLE 8: AIR BRAKE-NTA (TUBE END)		
DASH SIZE	TUBE SIZE	T.F.F.T.
-4	1/4	3
-6	3/8	4
-8	1/2	4
-10	5/8	3.5
-12	3/4	3.5

AIR BRAKE FITTINGS

1. CUT TUBE SQUARELY - MAX OF 15 DEGREE ANGLE ALLOWABLE.
2. INSPECT PORT AND CONNECTORS TO ENSURE THAT BOTH ARE FREE OF DIRT, BURRS AND EXCESSIVE NICKS.
3. INSERT TUBING INTO FITTING UNTIL IT BOTTOMS ON SEAT.
4. WRENCH TIGHTEN THE CONNECTOR TO THE APPROPRIATE TURNS FROM FINGER TIGHT (T.F.F.T.)

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