

Front Emergency Glad-hand Air Circuit Rework

It has been determined that the current air logic on certain trucks with front air brake glad-hands may cause the parking brake to become inoperative. The emergency circuit (red glad-hand) must be modified to remove the shutoff valve and shuttle valve to eliminate this issue.

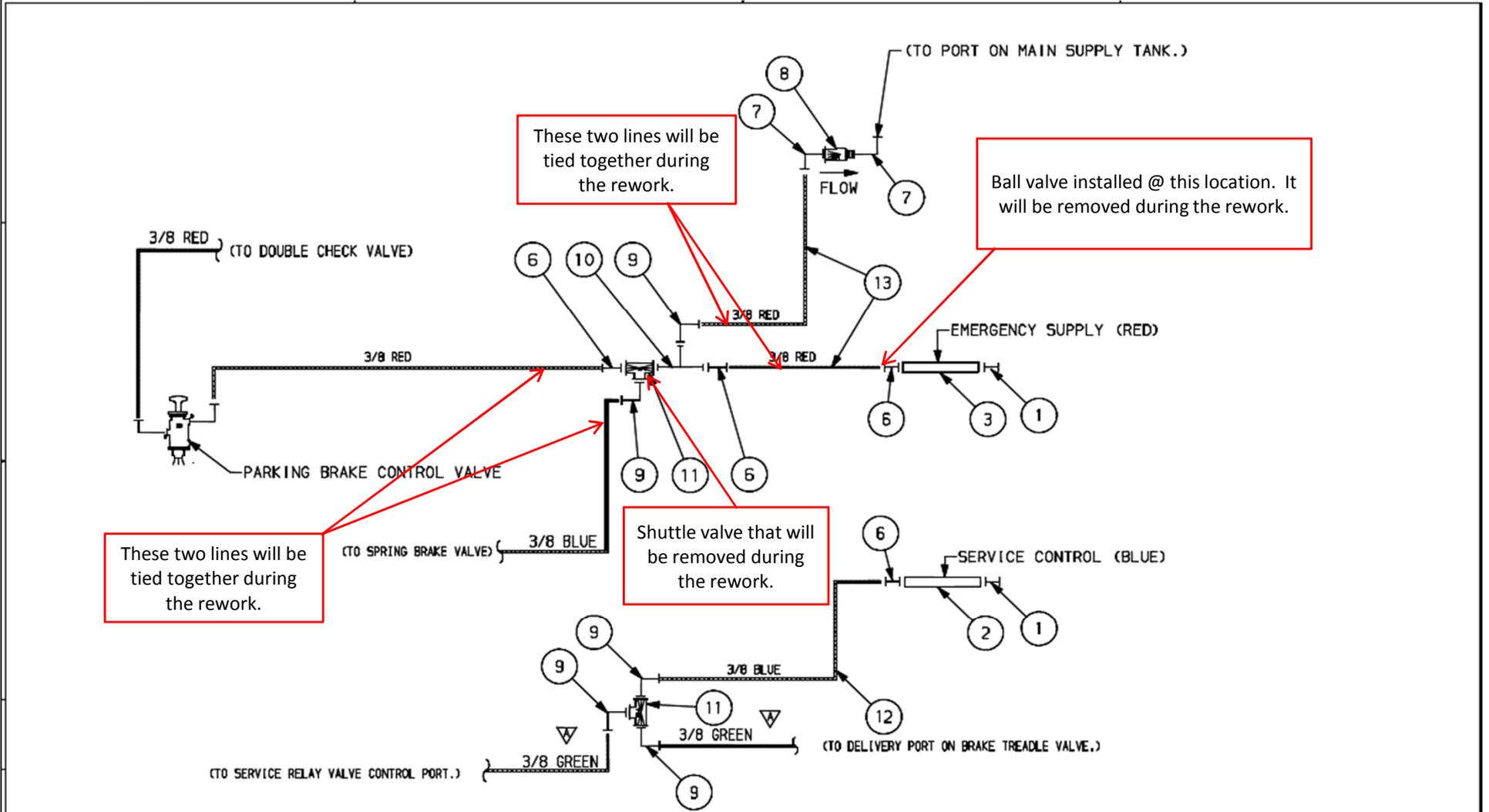
If you have any questions or concerns with this remedy, contact Pierce Customer Service at 1-888-974-3723





Front Emergency Glad-hand Air Circuit Rework

The original circuit schematic is shown below:



REF		NYLON		TOLERANCES UNLESS NOTED		SCALE	DATE	SIZE	MIN	WEIGHT	#
2 PLACE..... ±0.05		3 PLACE..... ±0.015		ANGULAR..... ±1.0°		DRWN	19JUN07	BMTL		FIN.	
3		3		DO NOT SCALE DRAWING.		CHECKED	6/26/07	TITLE			
3		3		ALL DIMENSIONS IN INCHES		EEB		SCHEMATIC, FRT TOWING CONN.			
3		3		UNLESS OTHERWISE NOTED.		APPROVED	6/26/07	PART	NO.		
3		3		FICH NO. 04664		EEB		1772055		SIZE	SHEET NO.
3		3						B		1 OF 1	

This printout is not controlled and will not be updated

1/15/2014



TITLE: Front Emergency Glad-hand Air Circuit Rework

WI-
CS000??

Tools Required

- Adjustable wrenches
- 7/16" - 11/16" open end wrenches
- 3/8" - 9/16" sockets and ratchet wrench
- Tubing Cutter
- Flashlight



Parts Required

- 2 - 3/8" couplings comp X comp (#56-0336)
- 1- 3/8" NPT X 3/8" Comp 90° (#56-0490-006)
- 1 - 3/8" NPT coupling (#56-0302)
- 1- 3/8" NPT close nipple hex (#56-0560-0003)
- Pipe Thread Sealant (#95-1305)





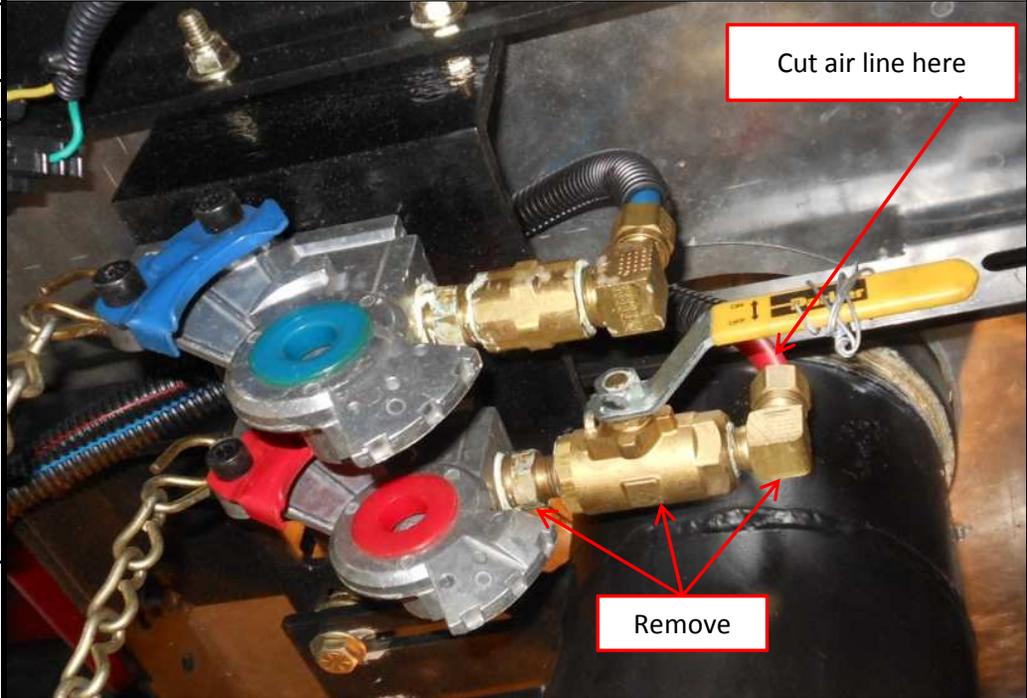
STANDARDIZED WORK INSTRUCTIONS

SKETCH / DRAWING OR PHOTO AREA

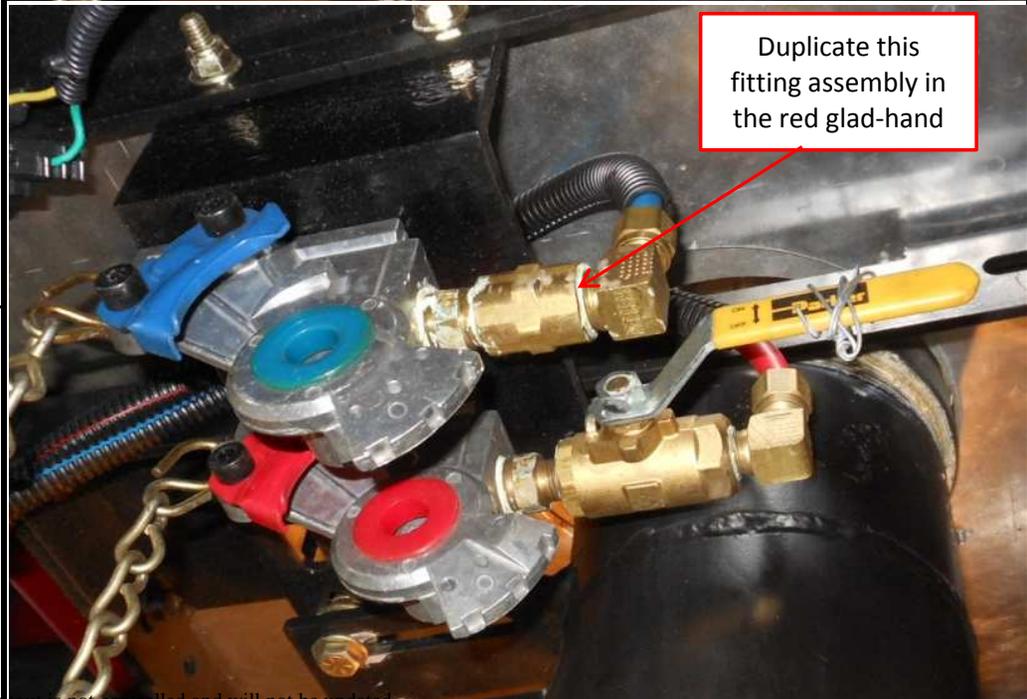
TITLE: Front Emergency Glad-hand Air Circuit Rework

WI-
CS000??

4 Apply parking brake and safety chock wheels.



5 Locate ball valve adjacent to front red glad-hand. Cut 3/8" red air line that connects to 90° fitting on the outlet of the ball valve. Remove nipple, ball valve, and 90° compression fitting from gladhand.



6 Install 3/8" NPT nipple (#56-0560-0003), coupling (#56-0302), & 90° NPT X compression fitting (#56-0490-006) into red gladhand. Use thread sealant (#95-1305) on all NPT connections. This will duplicate the assembly of the blue (service) gladhand. Install the 3/8" red air line that was previously cut into the 90° compression fitting.



STANDARDIZED WORK INSTRUCTIONS

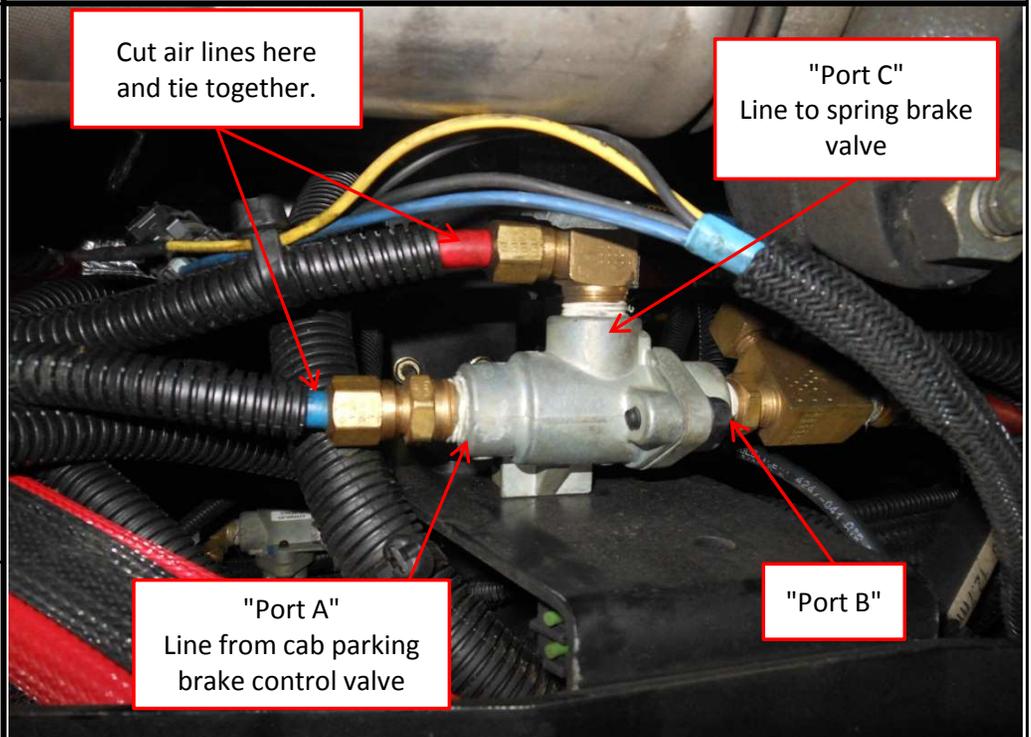
SKETCH / DRAWING OR PHOTO AREA

TITLE: Front Emergency Glad-hand Air Circuit Rework

WI-
CS000??

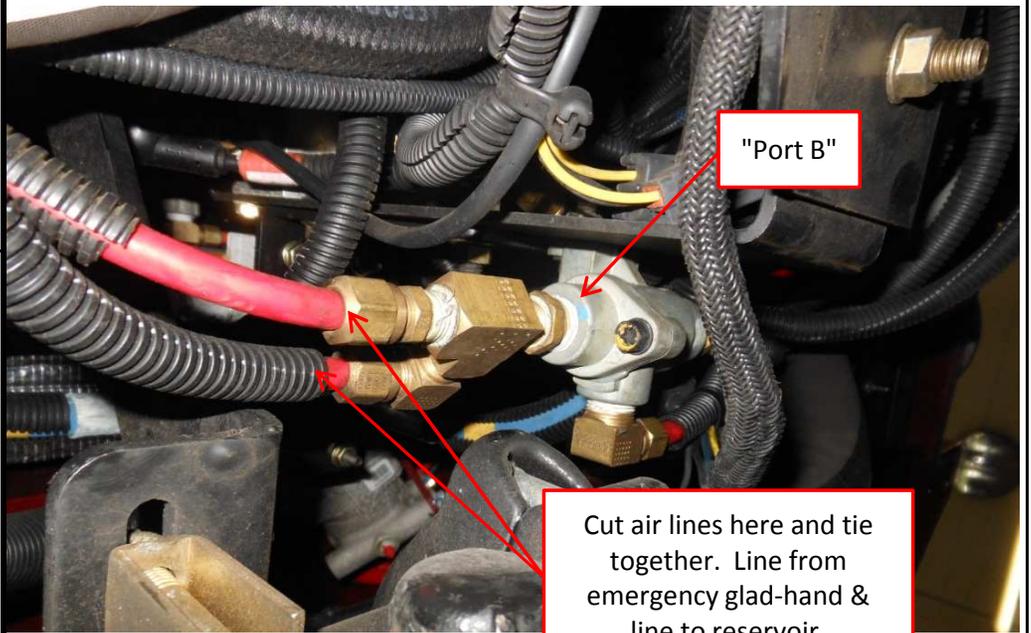
7

Locate shuttle valve on left side of frame towards front of the truck. Cut the 3/8" air lines that connect to "Port A" and "Port C". Connect these two lines together with a 3/8" coupling comp X comp fitting (#56-0336). This will connect the parking brake control valve in the cab directly to the spring brake valve in the frame.



8

Cut the two 3/8" air lines that connect to tee fitting in "Port B". Connect these two lines together with a 3/8" coupling comp X comp fitting (#56-0336). This will connect the line from the emergency glad-hand directly to the air reservoir inlet check valve.



9

Remove shuttle valve from mounting location.



STANDARDIZED WORK INSTRUCTIONS

SKETCH / DRAWING OR PHOTO AREA

TITLE: Front Emergency Glad-hand Air Circuit Rework

WI-
CS000??

10

PARKING BRAKE OPERATIONAL CHECK.

- A) Build up air pressure in truck.
- B) With safety wheel chocks still in place, release parking brake.
- C) Verify parking brake does release.
- D) Verify none of the air lines reworked have any leaks.
- E) Apply parking brake.
- F) Verify parking brake does apply.

11

GLAD-HAND OPERATIONAL CHECK

- A) Drain all air reservoirs.
- B) Using an external compressed air source, connect air to the emergency (red) glad-hand.
- C) Verify that air pressure builds in the rear reservoir.
- D) Verify none of the air lines reworked have any leaks.
- E) Verify that the parking brake stays applied.
- F) With safety wheel chocks still in place, release parking brake.
- G) Verify parking brake does release.

12

GLAD-HAND OPERATIONAL CHECK (CONT.)

- H) Using an external compressed air source, connect air to the service (blue) glad-hand.
- I) Verify that the rear service brakes apply.
- J) Remove air supply from service (blue) glad-hand.
- K) Verify that the rear service brakes release.
- L) Remove air supply from emergency (red) glad-hand.
- M) Apply parking brake.
- N) Truck is ready for service.