BLUE BIRD

Service Brake Switch Adjustment Inspection

RECALL

Models Affected: Certain 2014 Model Year Vision Buses Equipped with Ford 6.8L Propane Engines

R13WG

RECALL CAMPAIGN

ISSUE

On affected models the service brake switch may not have been adjusted properly during manufacture. A mis-adjusted service brake switch can result in one of the following conditions:

- Service brake lamps may remain on after the brake pedal has been released.
- Service brake lamps may be delayed in illuminating after the brake pedal has been depressed and brake force has been applied to the vehicle.
- Dash displays "Missing Brake Input" message and the engine may derate.

CORRECTIVE ACTION

Inspect the service brake switch for proper adjustment according to the following instructions. If adjustment is required the service brake switch must be replaced. A new service brake switch will be provided if adjustment is required.

PROCEDURE

WARNING: Always follow all Federal, State, Local, and Shop safety standards and use proper safety equipment when performing these procedures. Observe all safety precautions to secure the bus from rolling. Park the bus on a level surface, apply parking brakes, turn off engine and remove keys. Chock wheels.

Read and understand instructions before proceeding with service brake switch adjustment inspection.

INSPECTION PROCEDURE

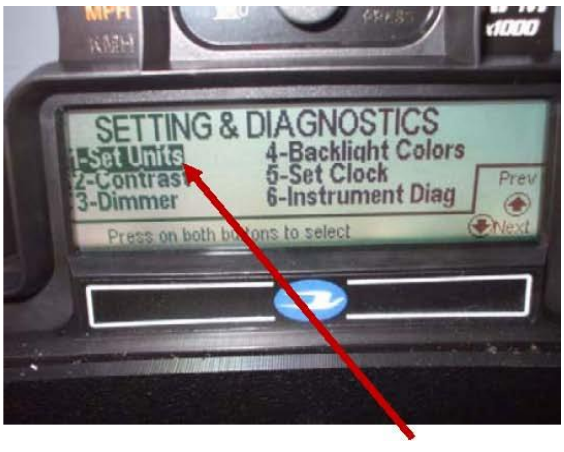
Step 1. Turn on Ignition switch and allow cluster to complete its start up. Start up is complete when gauges are no longer sweeping.

Step 2. For Air brake vehicles verify system pressure is above the warning levels. Start vehicle, if needed, to bring levels above the low air warning levels. Note: this step does not apply to hydraulic brake vehicles.

Step 3. Locate push button switches on instrument cluster. Switches are located in the bottom right corner. (See picture 1)

PICTURE 1

PICTURE 2



INSPECTION PROCEDURE

Step 4. Press and hold the lower push button switch (picture 1) until the display changes as shown in (picture 2)
Step 5. Using the bottom button scroll through the menus, until you see highlighted: "6-INSTRUMENT DIAG" (see picture 3)

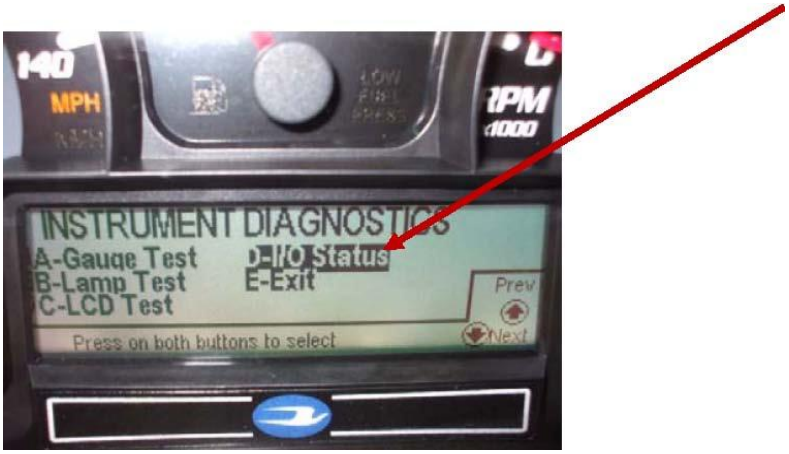
PICTURE 3

***Note: The screen will return to the start up menu after a few seconds of inactivity. Should this occur, return to Step 4.**

Step 6. Press both buttons simultaneously to select the highlighted choice. This will now bring you to the following screen shown in (picture 4): "INSTRUMENT DIAGNOSTICS"

Use the bottom button to scroll through and highlight: D-I/O STATUS.

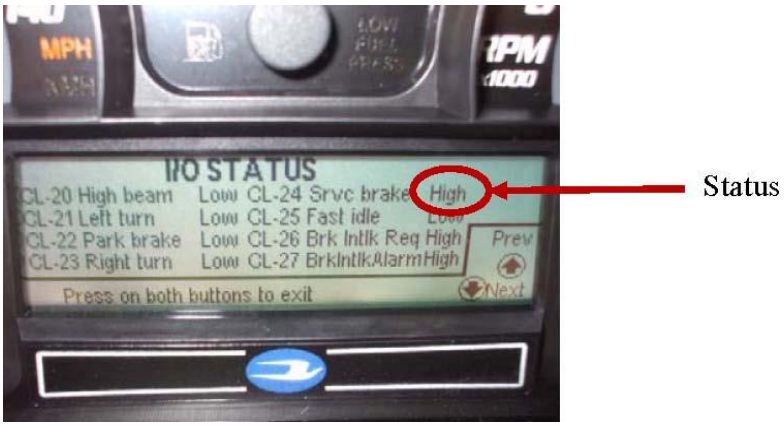
PICTURE 4



INSPECTION PROCEDURE

Step 7. Press both buttons simultaneously to enter into the I/O STATUS menu. (See picture 5). Using the bottom button, scroll through the menus until you come to "CL-24 Srvc brake". This is shown in (picture 5).
At this point note the status should be displayed as "CL-24 Srvc brake High" when the brake pedal is NOT pressed.

PICTURE 5



Step 8. Press the brake pedal down and note the status of CL-24. Within a downward pedal travel range of 0.50 inches or less the status should change to: "CL-24 Srvc brake Low". (See picture 6)

PICTURE 6

If the display changed from High to Low, within the downward pedal travel range of 0.50 inches or less the service brake switch is adjusted correctly. Inspection procedure is complete. No adjustment required. Return bus to service.

If the display did NOT change from High to Low, within the downward pedal travel range of 0.50 inches or less the service brake switch is NOT adjusted correctly. See the following service brake switch adjustment and replacement procedure.

Service Brake Switch
Adjustment And Replacement

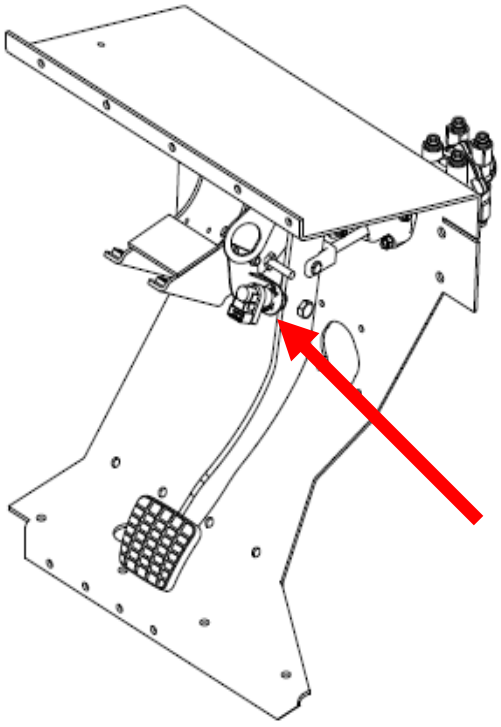
RECALL

R 1 3 W G

RECALL CAMPAIGN

ADJUSTMENT AND REPLACEMENT PROCEDURE

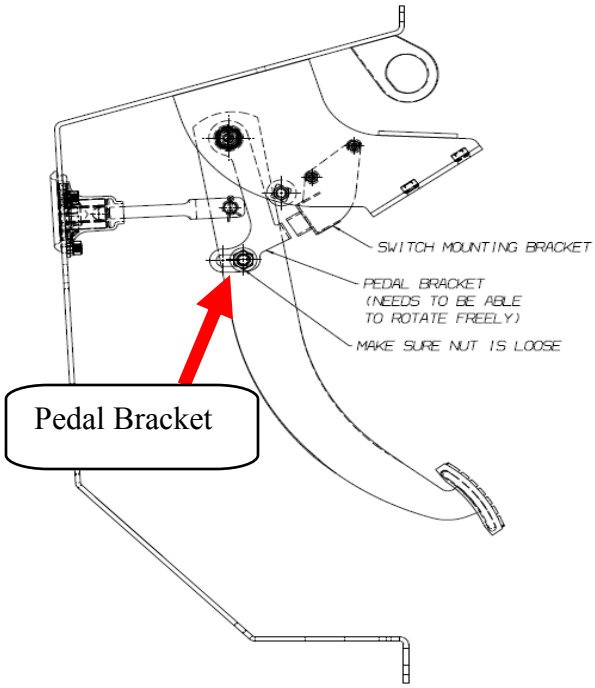
Step 1. Remove existing service brake switch. See “Switch Installed” detail for location of switch.



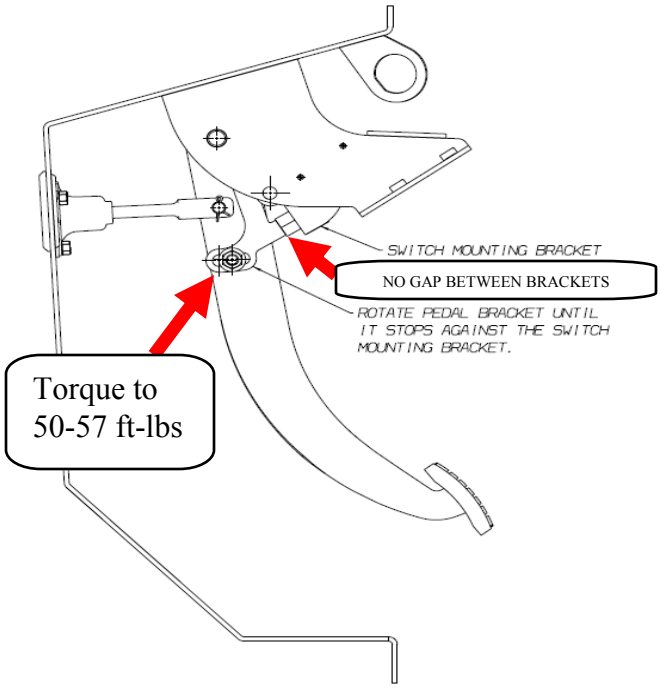
SWITCH INSTALLED

Note: New switch should NOT be installed until adjustment procedure is complete.

Step 2. Loosen lower nut securing pedal bracket so pedal bracket can rotate freely.See “View A”.
Step 3.Rotate pedal bracket until it stops against the switch mounting bracket. Tighten bolt on pedal bracket to a torque of 50-57 ft-lbs. See “View B”.



VIEW A

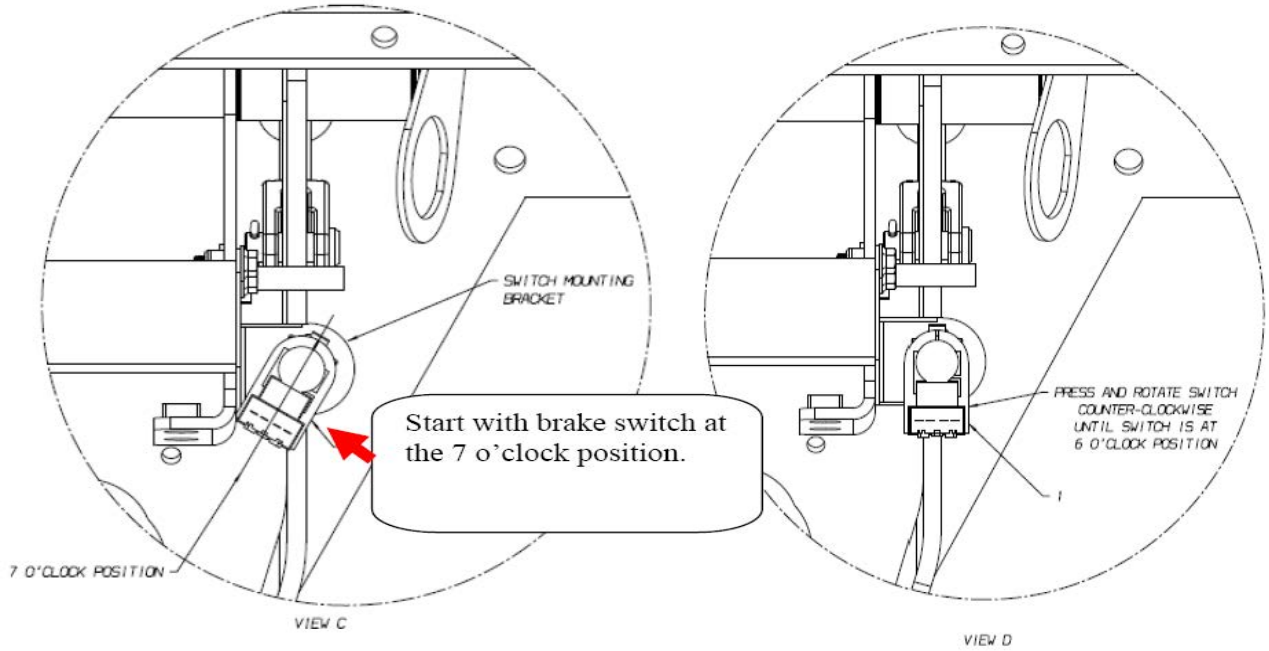


VIEW B

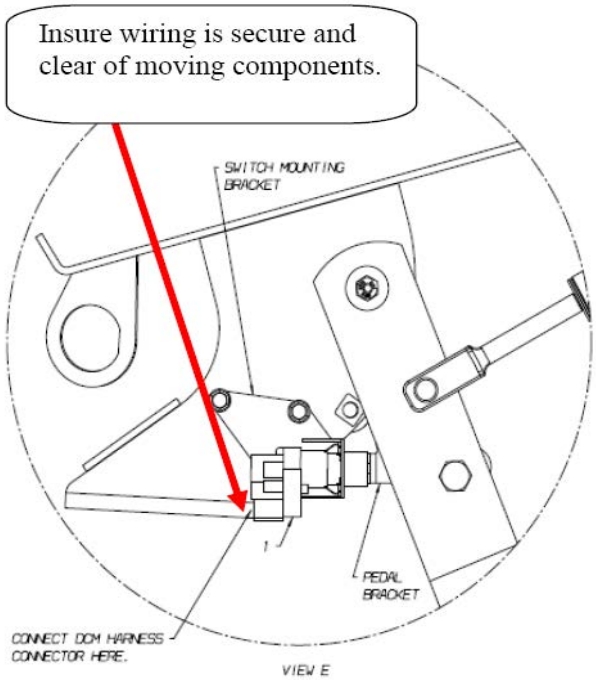
Step 4. Double check to make sure there is no gap between the two brackets. If any gap exists between the two brackets, loosen lower nut and go back to previous step until pedal bracket is adjusted properly. CAUTION: DO NOT adjust pedal bracket such that service brakes are engaged without pressing the brake pedal.

Step 5. Insert new service brake switch into the switch mounting bracket with the connector at the 7:00 o'clock position. See "View C".

Step 6. At the same time press and turn switch counter-clockwise until switch connector tabs lock into the mounting bracket at the 6:00 o'clock position. Switch self-adjusts during this step. See "View D".



Step 7. Reconnect DCM wiring harness connector to service brake switch. See "View E".



Step 8. Repeat previous inspection procedure to verify adjustment is correct.
Step 9. If adjustment is correct, return bus to service.
Step 10. If adjustment is NOT correct, return to step 1 of adjustment and replacement procedure.

PARTS

Part Number	Quantity	Description
10026469	1	SERVICE BRAKE SWITCH

TOOLS

Description
TORQUE WRENCH
3/4“ SHALLOW SOCKET
3/4“ OPEN END WRENCH