ISSUE DATE:	04/10/2023
SERVICE BULLETIN SUBJECT:	ADA Activation Stop Request Sign Retrofit
VINs or MODELS AFFECTED:	Service Specified Buses
COMPLETE BY:	Next Service Opportunity
SERVICE BULLETIN #:	SC-23-041
LABOR OPERATION CODE:	AA46Z

NOTICE! It is expected that this process may require up to 2 hours per bus. Please schedule appropriately to minimize vehicle downtime.

NAME

Description:

The procedure describes the process of retrofitting the Stop Requested signal to the Stop Request sign to activate when the ADA stop request is pressed.

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Tools/Parts Required:

Tools and Supplies Required:

- Wheel Lifts (Four Required)
- Jack Stands (Four Required)
- Side Cutting Pliers

Kit Parts Required:

- 064469 Service Retrofit Kit, ADA Activation Stop Request (Consisting of)
  - 010023 WIRE, 20 AWG, TYPE TXL, BLACK (BK) 2.625M
  - 001301 TERMINAL, SIZE 16, SOCKET, 16-20 AWGH 6 EA
  - 002573 CONNECTOR, BUTT SPLICE, NON-INSULATED, #16 -14 AWG 3 EA
  - 001927 HEAT SHRINK, 1/4 NOMINAL 2:1 SHRINK RATIO BLACK 1 FT
  - 001259 CONNECTOR, PLUG, 2 POSITION, DEUTSCH #DT06-2S 2 EA
  - 017082 DT RECP ASM - DT04-2P-RT01 2 EA
  - 017390 20 TXL WHT BC 60V 125C OD=1.78 4.625M
  - 012733 FML, MINIFITJR, 18-24AWGM PB/GP, IR 1.3-3.1 1 EA
  - 015831 SCKT,STMP&FRMD,SZ 20,18-22 AWG,NCKL 1 EA
  - 009973 LABEL, THERMAL TRANSFER, ADHSV, 5.8MIL, WHT 12 EA

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Procedure:

1. Use the Proterra approved Lockout/Tagout procedure to make the bus safe for work.

2. Remove Driver's Workplace panels to gain access to the SSMN harness (PN: 180-5874) connected to the Stop Request sign.

3. Locate PC205 of the SSMN harness (PN: 180-5874) and remove the wire and terminal from 1P205.

4. Cap the removed wire to prevent unintentional shorting.

5. Remove necessary panels to gain access to the ITS plate.

6. Find harness in SSWW and locate JE019. Remove the terminals from cavity 4 and cavity 17. Cut the terminals off the wires as close to the terminals as possible.
   Note: BANFF uses SSWW harness (PN: 177-4591) while RRM uses ITS Integration harness (PN: 177-9125).

7. Cut 4 pieces of black, 20-gauge, TXL wire (PN: 010023) to length of 150mm each.

8. Terminate one end of each wire with a socket (PN: 001301). (Mentally label the wire/socket as 1,2,3 and 4.)

9. Insert the socket of one of the wires (Wire 1) into cavity 4 of JE019. Strip the end of this wire and the wire that was previously connected to 4JE019. Insert both stripped ends into one side of SPE770, a butt splice (PN: 002573).

10. Insert the socket of the other wire (Wire 2) into cavity 17 of JE019. Strip the end of this wire and strip the wire that was previously connected to 17JE019. Insert both stripped ends into one side of SPE771, a butt splice (PN: 002573).

11. Insert the socket of one of the wires (Wire 3) into cavity 2 of PE503, a 2-position Deutsch receptable (PN: 001259). Strip the other end of this wire and insert it into the empty side of SPE770. Add heat shrink (PN: 001927) as needed.

12. Insert the socket of the last wire (Wire 4) into cavity 2 of PE504, a 2 position Deutsch receptable (PN: 001259). Strip the other end of this wire and insert it into the empty side of SPE771. Add heat shrink (PN: 001927) as needed.

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13. Locate PE381 of the harness in the SSWW box, remove the terminal from cavity 4, cut the terminal off this wire and cap or remove the wire to prevent shorting.
    Note: BANFF uses SSWW harness (PN: 177-4591) while RRM uses ITS Integration harness (PN: 177-9125).

14. Obtain 2 pieces of black, 20-gauge, TXL wure (PN: 010023) with length of 200mm. (Mentally label these as Wire 4 and Wire 5)

15. Terminate 1 end of both Wire 4 and Wire 5 with a socket (PN: 001301).

16. Insert socket of Wire 4 into cavity 1 of PE503.

17. Insert socket of Wire 5 into cavity 1 of PE504.

18. Strip the unteriminated ends of Wire 4 and Wire 5 and insert them into one side of SPE084, a butt splice (PN: 002573).

19. Connect JE503 (a diode cap, PN: 017082) to PE503 and connect JE504 (a diode cap, PN: 017082) to PE504.

20. Print and attach label (PN: 009973) on the PE503 and PE504 branches.

21. Obtain a white, 20-gauge, TXL wire (PN: 017390) to length of 4625mm.

22. Terminate end of white wire with a socket.

23. Insert the socket into cavity 1 of PC205 of the SSMN harness connected to the Stop Sign Request.

24. Obtain a black, 20-gauge, TXL wire (PN: 010023) to length of 1625mm.

25. Terminate one end of black wire with a socket (PN: 015831).

26. Insert the socket into cavity 4 of PE381 of the harness in the SSWW.
    Note: BANFF uses SSWW harness (PN: 177-4591) while RRM uses ITS Integration harness (PN: 177-9125).

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27. Strip the unterminated end of both wires and insert into the empty side of SPE084. Add heat shrink as needed.

28. Remove the Lockout/Tagout devices and return the bus to service.

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