



Diversified Metal Fabricators Technical Reference Bulletin TRB0015

Title	Traction Control Bypass for 2021+ Ford F-650 & F-750
Document No.	TRB0015 Rev #
Issue Date	11/03/20 (TAM)
Release	General
Units Affected	2021+ Ford F-650 and F-750
Purpose	Provide guidance on bypassing traction control while on rail

DMF RW-1420 and RW-1630 railgear as installed on 2021+ Ford F-650 and F-750 models elevates the front axle to prevent the front tires from contacting the rail. Unless bypassed according to the following directions, the traction control system will limit travel speed to ~5 mph when on rail.

The PTO switch will need to be cycled after moving vehicle with railgear deployed. PTO will be unavailable in mobile modes (stationary operation only).

Proximity Sensor:

A proximity sensor should be used to detect when the railgear is in the deployed position, providing a trigger to bypass the traction control system.

DMF offers an optional kit (P/N 818397) that includes a weld-in sensor bung, compatible proximity sensor, and relays. See drawing details for sensor location. Upfitters are free to select a different sensor or mounting arrangement, but may need to modify the wiring instructions shown to suit. Care should be taken to ensure that proximity sensor is properly adjusted and will not be damaged during railgear deployment.

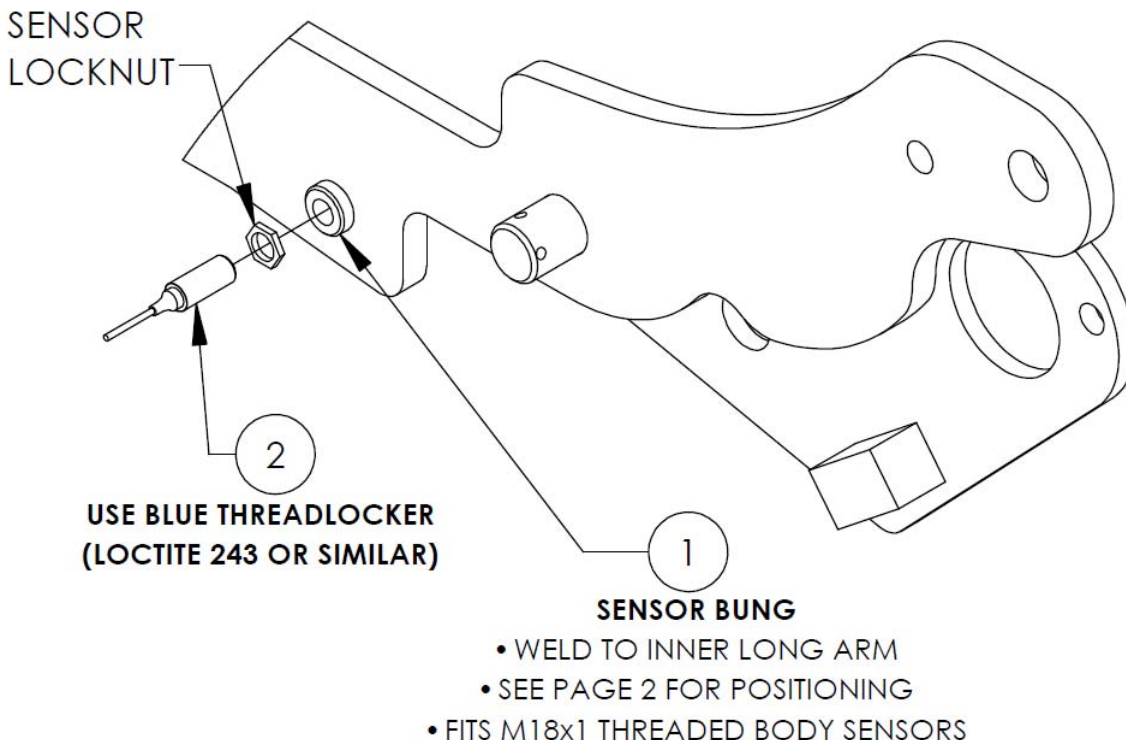


Figure 1. Proximity Sensor Location



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Wiring:

- 1) See wiring diagram on DMF Drawing 818937. Wiring shown is based on use of DMF's PNP proximity switch. Wiring will vary if using an installer-supplied NPN switch.
- 2) Mount relays on firewall near underhood fuse box.
- 3) Locate an ignition power source for the proximity switch and relay 2 and install a suitable in-line fuse.
- 4) Locate the fuse for the Electronic Brake Control Module (EBCM). The fuse is located in the underhood fuse box in cavity 18.
- 5) Remove the EBCM fuse and leave ignition off for remainder of installation.
- 6) Locate the output wire for the EBCM fuse (OFF-WHITE/ORANGE in color) inside the wire loom exiting the fuse box.
- 7) Locate the parking brake switch output wire in the "Customer Access Harness" as detailed in Ford SVE Bulletin Q-278. The blunt-cut wire is labeled CMC25 and WHITE/VIOLET in color.