

SS 3112 FTL 2022 P4 Detroit Side Object Detection Harness Rub-Chafe on Bracket

Applicable Vehicles

This solution applies to P4 Models specifying Detroit Side Guard Assist.

Symptoms

CEL- MIL Lamps On, SRR, ABS and VRDU related fault Codes triggered. List of possible fault codes are shown in table 1 below:

| Fault Code | Description |
|-------------------|--|
| 524133/9 | ECU SRRR Timeout |
| 524133/19 | ECU SRRR Data Error |
| 524133/31 | Lost communication with SRRM. |
| 524127/9 | ECU MPC Timeout |
| 523010/31 | Format of SMF Flash Block is Not Correct - Condition Exists |
| 524230/9 | ECU PSM Timeout |
| 524230/19 | ECU PSM Data Error |
| 524232/9 | ECU VRDU Timeout |

| | |
|-----------|--|
| 524232/19 | ECU VRDU Data Error |
| 523001/31 | CAT2: ECU Disturbance |
| 1243/14 | ABS Fault Codes - Power Supply - special instructions |
| 627/1 | ABS- Power Supply - data valid, but below normal operation range (most severe level) |
| 1231/9 | Assistance CAN Timeout |
| 84/9 | VCAN Node BS Timeout |

Table 1: Common Fault Codes triggered by reported failure mode.

Issue

SOD harness may be rubbing the sharp edge of the ATD cover cutout and against the radar support-mounting bracket, causing harness to short out, which trigger several fault codes.

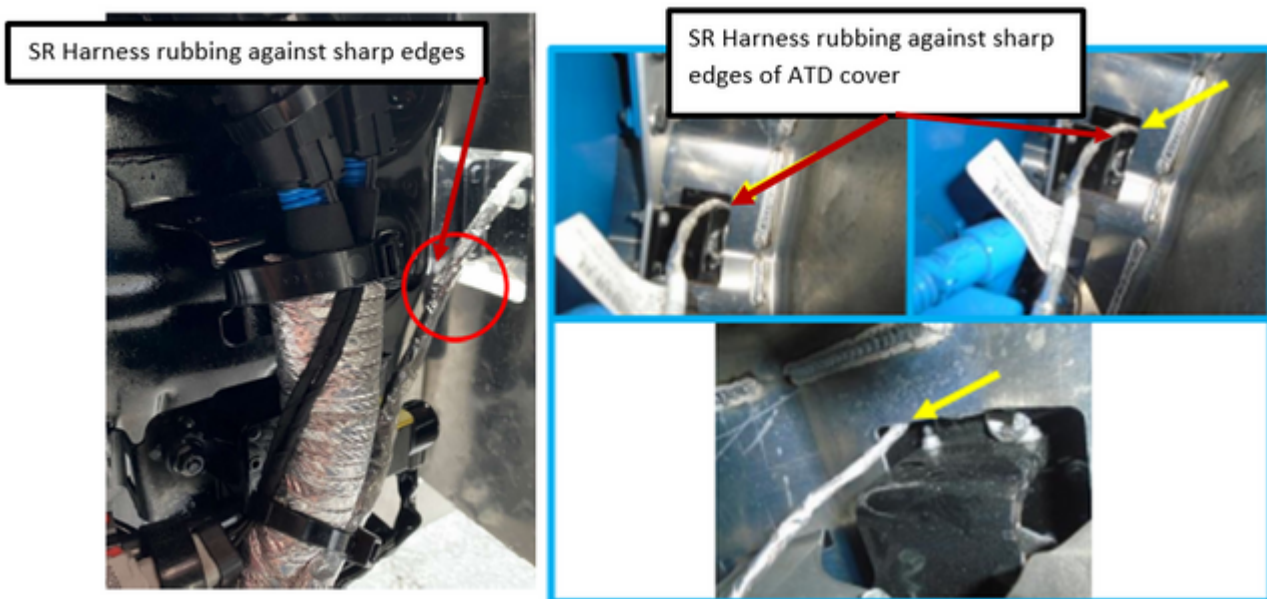


Figure 1: Side Object Detect (SOD) Harness rubbing points at SRR mounting bracket and ATD cover.

Solution

- Access SOD Harness and inspect to identify rubbing and chaffing spots. Remove existing clipping points and inspect and repair harness as needed. Refer to Figure 2 for SOD Harness installation.

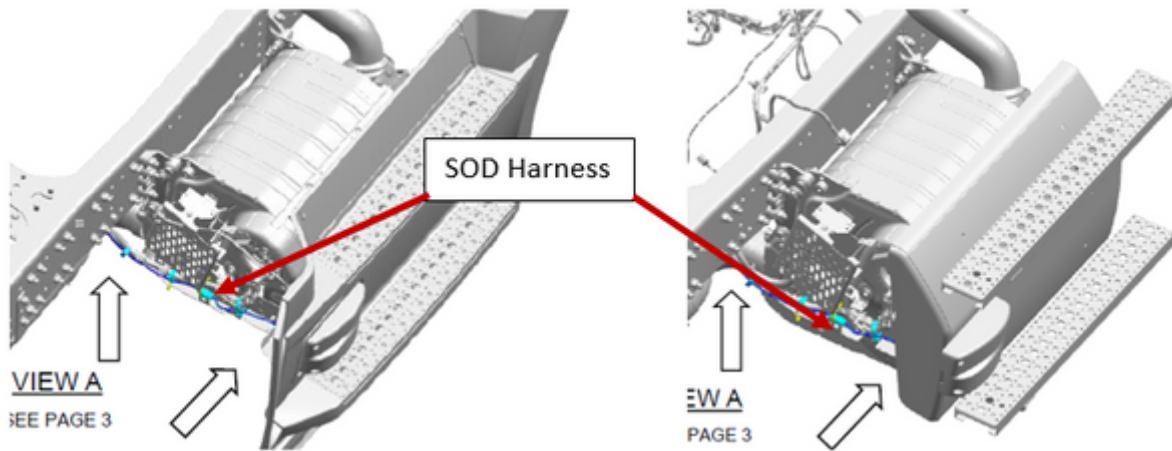


Figure 2: SOD harness installation (Reference: D66-13128-003/4/5)

- Install and route Harness as per installation Diagram shown in Figure 3 for the specific models listed and refer to Table 2 for additional parts required:

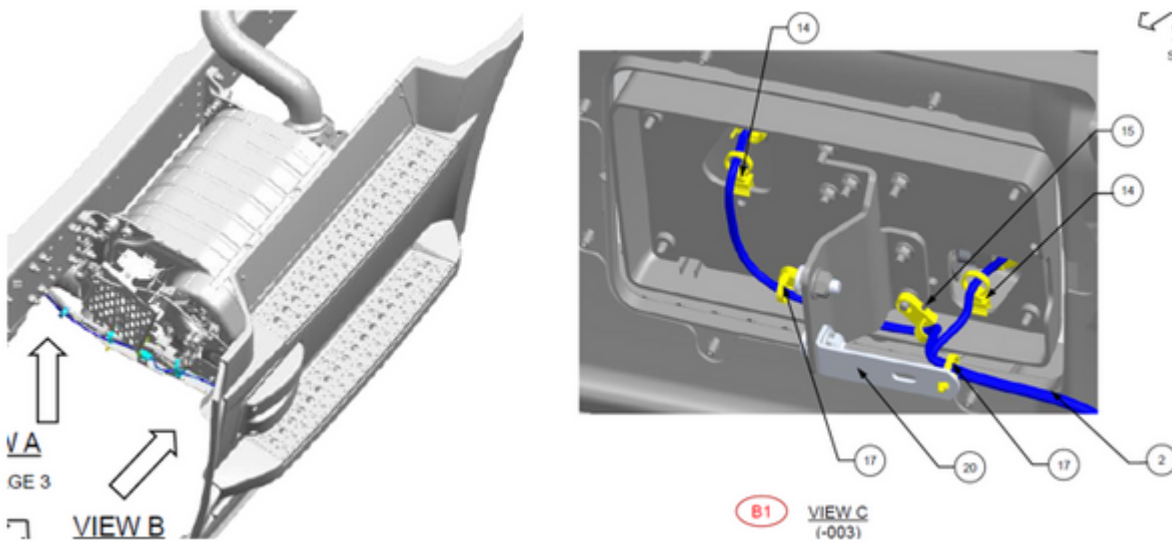


Figure 3: SOD Harness installation (-003) with additional clipping points (CAS 116 DC/SLP)

| Item | Part Number | Description | Qty. |
|------|--------------|-------------------|--------|
| 14 | 23-13477-300 | CLIP-EDGE,1-3MM,C | 2 Each |
| 15 | 23-12115-201 | STRAP-TIE,1/4"STU | 1 Each |
| 17 | 23-13482-002 | TIE-FIR TREE MTD | 2 Each |

Table 2. Additional required parts for new routing/clipping.

- Install and route Harness as per installation Diagram shown in Figure 4 for the specific models shown and refer to Table 3 for additional parts required:

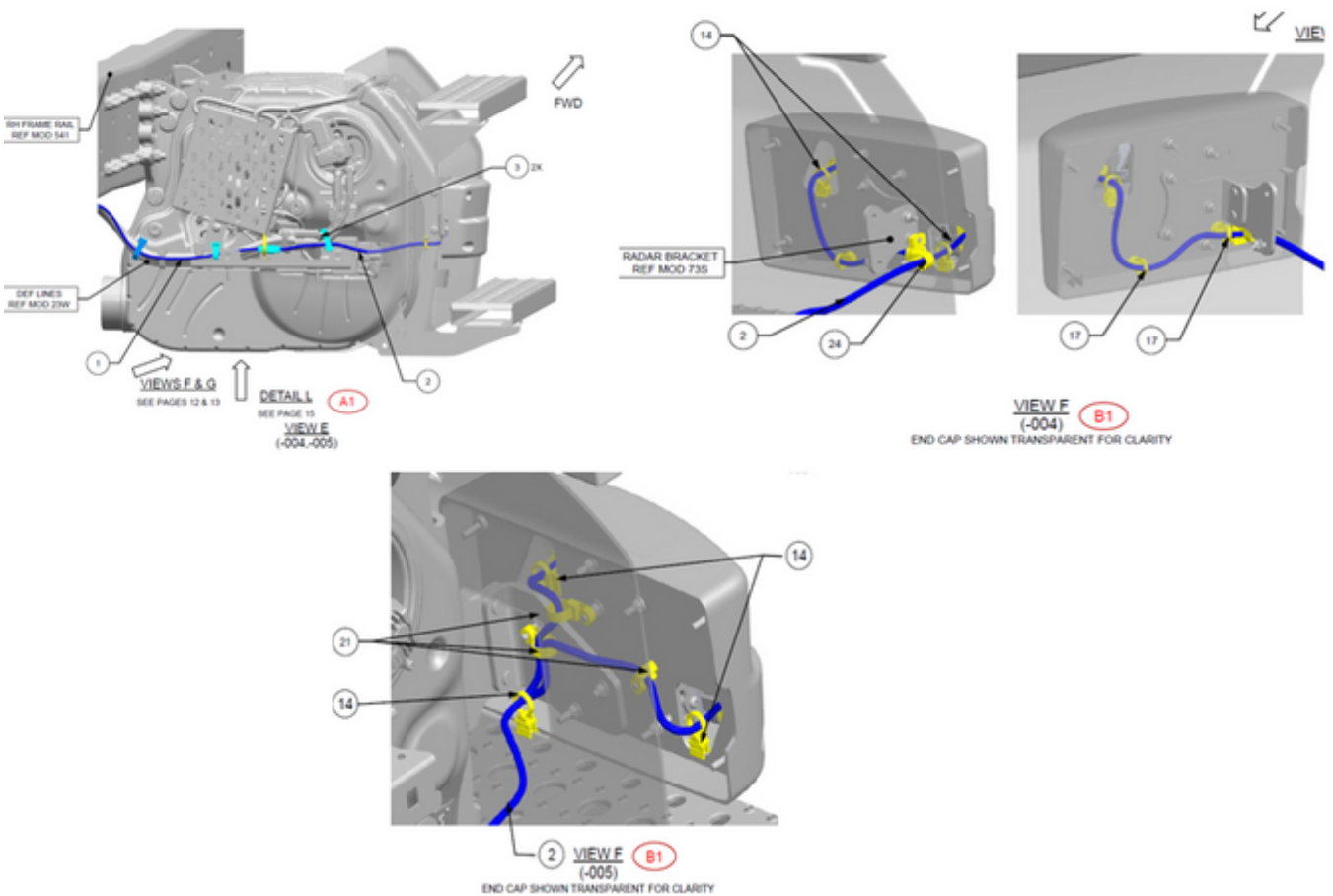


Figure 4: SOD Harness installation with additional clipping points (CAS 116 – 126 DC/SLP)

| Item | Part Number | Description | Install | Qty. |
|------|--------------|-------------------|---------|--------|
| 14 | 23-13477-300 | CLIP-EDGE,1-3MM,C | -004 | 2 Each |
| 17 | 23-13482-002 | TIE-FIR TREE MTD | -004 | 2 Each |

| | | | | |
|----|--------------|-------------------|------|--------|
| 24 | 23-13279-001 | STRAP-TIE,STUD MO | -004 | 1 Each |
| 14 | 23-13477-300 | CLIP-EDGE,1-3MM,C | -005 | 3 Each |
| 21 | 23-12054-003 | STRAP-TIE,SCREW M | -005 | 3 Each |

Table 3. Additional required parts for new routing/clipping, Installation Dwgs -004 and -005.

- Refer to SS 3070-FTL2021 P4 New Cascadia Side Guard Radar Harness Moisture Intrusion for additional installation recommendations related to Detroit Side Guard Wiring.

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