



**IMPORTANT SERVICE
INFORMATION FOR:**

- ✓ SERVICE MANAGER
- ✓ SERVICE ADVISOR
- ✓ TECHNICIAN
- ✓ PARTS DEPARTMENT
- ✓ WARRANTY PERSONNEL

BULLETIN NUMBER:
IB19-N-001A

ISSUE DATE:
FEBRUARY 2020

GROUP:
ELECTRICAL

WIRING HARNESS CONNECTORS

AFFECTED VEHICLES

- 2005MY – Current Isuzu N-Series Vehicles Equipped with Diesel Engines
- 1996 – 2019MY Isuzu N-Series Vehicles Equipped with Gasoline Engines
- 2004MY – Current Isuzu F-Series Vehicles

This bulletin supersedes bulletins IB19-N-001 and IB12-N-002B. The purpose of this bulletin is to combine the two prior bulletins and to update content. Please discard bulletins IB19-N-001 and IB12-N-002B.

INFORMATION

Isuzu Commercial Truck of America is pleased to announce the release of OEM and Fleet Value (FV) electrical wire connectors and separate terminal wires for certain Isuzu N-Series and F-Series Trucks. In some instances, the electrical connectors and terminal wires listed in this bulletin can be a cost-effective repair alternative to replacing an entire wiring harness, thereby reducing the operating expense for your customers. Please see the charts below for details regarding the electrical connectors and terminal wires currently available.

OEM Connectors: OEM connectors are supplied with pre-installed wire terminals and “pigtail” wire leads. (See Figure 1.) Although some OEM connectors have colored wire insulation, the insulation may not match the colors of the vehicles’ wiring harness. The terminal locations in the connector **MUST** be verified to ensure the correct wires are joined. Refer to Chart 1 later in this bulletin for available OEM Connectors.



Figure 1

NOTE: Connectors with a part number beginning with the number “8” are OEM connectors that come with installed terminals and “pigtail” wire leads. In order to install these connectors you will need either to use additional Terminal Joint Connectors, as listed in Chart 3, or to solder the wires together. These connectors are approved for warranty repairs.

Fleet Value Connector Repair Kits: Fleet Value connector repair kits consist of empty plastic connectors, terminals and wires. Fleet Value connector repair kits are supplied with up to 10 pre-terminated wires that must be inserted into the connector. (See Figure 2.) The pre-terminated wires also include pre-installed crimpless style Terminal Joint Connectors. The color of the wire insulation may not match the original; however, the wire size, connector and fitment will be correct. The terminal locations in the connector MUST be verified to ensure the correct wires are joined. Refer to Chart 1 for available FV Connector Repair Kits.



Figure 2

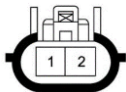
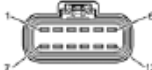
NOTE: Connectors with a part number beginning with the number “2” are Fleet Value (FV) connectors. Refer to the remarks section in Chart 1 below to determine how many terminal wires come in the kit. FV connector repair kits are not approved for warranty repairs.

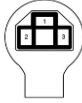
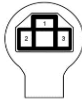
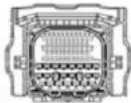
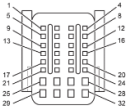
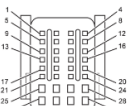
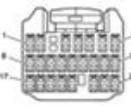
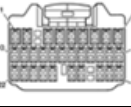
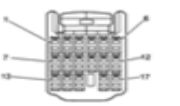
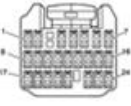
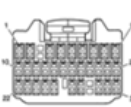
Separate Terminal wires: Separate Terminal wires can be utilized for individual repairs where terminals have been damaged. These wires come with an attached crimpless connector, a seal, and a terminal. (See Figure 3.) Separate Terminal wires are available only in packs of ten. Refer to Chart 2 for available wires.



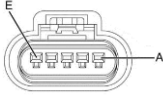
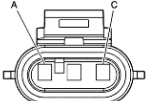
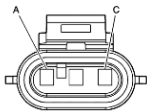
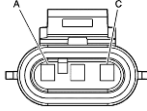
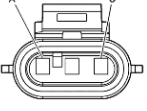
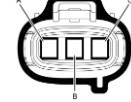
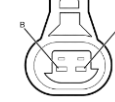
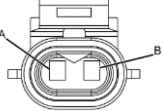
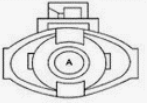
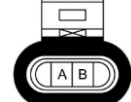
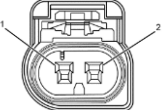
Figure 3

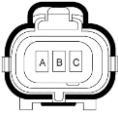
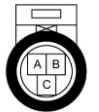
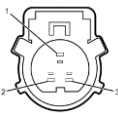
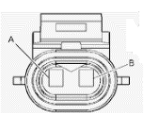
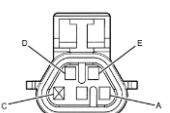
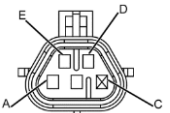
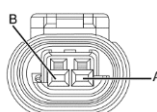
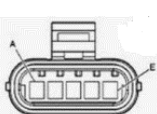
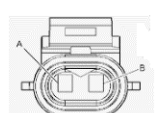
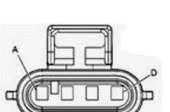
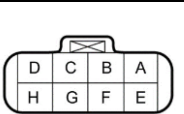
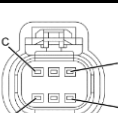
NOTE: All separate terminal wires are Fleet Value (FV) parts and are not approved for warranty repairs.

ELECTRICAL CONNECTORS DIESEL							
FROM	TO	LOCATION	ILLUSTRATION	PART NUMBER	REMARKS	FLEET VALUE (FV) OR OEM	PREVIOUS FLEET VALUE PART NUMBER
NPR/NPR HD/NQR/NRR/REACH (DIESEL)							
2005	2010	4HK1 FUEL PRESS SENSOR		8-98260-987-0	CONNECTOR 2005-2007 (E-113) 2008-2010 (E-60) All Wires Pre-Installed	OEM	2-9406F-005-0
2005	2020	4HK1 FPR/SCV VALVE		8-98260-986-0	CONNECTOR 2005-2007 (E-116) 2008-2020 (E-17) All Wires Pre-Installed	OEM	2-9406F-006-0
2008	2010	4HK1 FUEL SEDIMENTER SWITCH		8-98260-988-0	CONNECTOR (E-70) All Wires Pre-Installed	OEM	2-9406F-007-0
2011	8/2013	4HK1 FUEL SEDIMENTER SWITCH		8-97516-809-0	CONNECTOR (J-138) All Wires Pre-Installed	OEM	2-9406F-033-0
2011	2018	4JJ1 FUEL SEDIMENTER SWITCH		8-98261-423-0	CONNECTOR (E-31) All Wires Pre-Installed	OEM	N/A
2008	2019	AISIN 6 SPEED 10-WAY TRANS INH & CHASSIS		8-98240-888-0	CONNECTOR (J-119) All Wires Pre-Installed	OEM	2-9406F-008-0
2011	2019	AISIN 6 SPEED 12-WAY TRANS INH & CHASSIS		8-98317-856-0	CONNECTOR (J-120) All Wires Pre-Installed	OEM	2-9406F-009-0
2008	2020	AISIN 6 SPEED OUTPUT SHAFT SPEED SENSOR		8-98240-887-0	CONNECTOR (J-121) All Wires Pre-Installed	OEM	N/A
2005	2020	MAF SENSOR		8-98256-857-0	2005-2020 4HK1 2011-2018 4JJ1 CONNECTOR (J-38) All Wires Pre-Installed	OEM	2-9406F-010-0
2008	2020	TURBO ACTUATOR SOLENOID		8-97526-246-0	2008-2020 4HK1 2012-2018 4JJ1 CONNECTOR (E66) All Wires Pre-Installed	OEM	2-9406F-022-0
2011	2015	4HK1 EGR VALVE		8-97526-246-0	CONNECTOR (E-63) All Wires Pre-Installed	OEM	2-9406F-022-0

2008	2020	H4 HEADLIGHT (RH)		8-97522-148-0	CONNECTOR (B-81) All Wires Pre-Installed	OEM	2-9406F-027-0
2008	2020	H4 HEADLIGHT (LH)		8-97522-150-0	CONNECTOR (B-80) All Wires Pre-Installed	OEM	2-9406F-027-0
2008	2020	FRT TURN SIGNAL LAMP (RH)		8-97522-152-0	CONNECTOR (B-73) All Wires Pre-Installed	OEM	2-9406F-021-0
2008	2020	FRT TURN SIGNAL LAMP (LH)		8-98068-065-0	CONNECTOR (B-72) All Wires Pre-Installed	OEM	2-9406F-021-0
2005	2007	4HK1 FRAME TO ENGINE MALE PLUG		8-97516-810-0	CONNECTOR (H-121M) All Wires Pre-Installed	OEM	2-9406F-028-0
2008	2010	FRONT FRAME HARNESS TO REAR FRAME HARNESS (32-WAY FEMALE SIDE)		8-98240-886-0	4HK1 CONNECTOR (H-101) All Wires Pre-Installed	OEM	N/A
2011	2020	FRONT FRAME HARNESS TO REAR FRAME HARNESS (32-WAY FEMALE SIDE)		8-98242-707-0	2011-2020 4HK1 2011-2018 4JJ1 CONNECTOR (H-101) All Wires Pre-Installed	OEM	N/A
1996	2004	FUEL TANK SENDING UNIT 30 GAL RECT TANK		2-9406F-025-0	CONNECTOR 1996-1998 (J28) 1999-2004 (J-126) Includes 3 Loose Wires	FV	N/A
2005	2007	FUEL TANK SENDING UNIT 30 GAL RECT TANK & 33 GAL ROUND TANK		2-9406F-024-0	CONNECTOR RECT TANK (J-207) ROUND TANK (J-28) Includes 3 Loose Wires	FV	N/A
2008	2020	4HK1 24-WAY TCM		2-9406F-012-0	CONNECTOR (B-229) Includes 10 Loose Wires	FV	N/A
2008	2020	4HK1 31-WAY TCM		2-9406F-013-0	CONNECTOR (B-230) Includes 10 Loose Wires	FV	N/A
2008	2020	17-WAY TCM		2-9406F-011-0	2008-2020 4HK1 2011-2014 4JJ1 CONNECTOR (B-228) Includes 10 Loose Wires	FV	N/A
2011	2018	4JJ1 24-WAY TCM		2-9406F-012-0	CONNECTOR (B-229) Includes 10 Loose Wires	FV	N/A
2011	2018	4JJ1 31-WAY TCM		2-9406F-013-0	CONNECTOR (B-230) Includes 10 Loose Wires	FV	N/A

2005	2007	4HK1 ACCEL PEDAL		2-9406F-023-0	CONNECTOR (B-280) Includes 5 Loose Wires	FV	N/A
2011	2018	4JJ1 EGR		2-9406F-020-0	CONNECTOR (E-15) Includes 4 Loose Wires	FV	N/A
2005	2007	4HK1 FRAME TO ENGINE FEMALE PLUG		2-9406F-029-0	CONNECTOR (H-121F) Does Not Include Wires	FV	N/A
FSR/FTR/FVR/FXR							
2004	2009	FPR/SCV VALVE		8-98260-986-0	2004-2007 LG4 2007-2009 LF8 All Wires Pre-Installed	OEM	2-9406F-006-0
2018	2020	4HK1 FPR/SCV VALVE		8-98260-986-0	CONNECTOR (E-17) All Wires Pre-Installed	OEM	2-9406F-006-0
2018	2020	TURBO ACTUATOR SOLENOID		8-97526-246-0	CONNECTOR (E-66) All Wires Pre-Installed	OEM	2-9406F-022-0
2018	2020	H4 HEADLIGHT (RH)		8-97522-148-0	CONNECTOR (B-81) All Wires Pre-Installed	OEM	2-9406F-027-0
2018	2020	H4 HEADLIGHT (LH)		8-97522-150-0	CONNECTOR (B-80) All Wires Pre-Installed	OEM	2-9406F-027-0
2018	2020	FRT TURN SIGNAL LAMP (RH)		8-97522-152-0	CONNECTOR (B-73) All Wires Pre-Installed	OEM	2-9406F-021-0
2018	2020	FRT TURN SIGNAL LAMP (LH)		8-98068-065-0	CONNECTOR (B-72) All Wires Pre-Installed	OEM	2-9406F-021-0
Jun-05	2009	ACCEL. PEDAL		2-9406F-023-0	Includes 5 Loose Wires	FV	N/A
ELECTRICAL CONNECTORS GASOLINE							
FROM	TO	LOCATION	ILLUSTRATION	PART NUMBER	SENSOR PART NUMBER	FLEET VALUE OR OEM	PREVIOUS FLEET VALUE PART NUMBER
2003	2019	ACCEL PEDAL		2-9406F-023-0 Includes 5 Loose Wires	8-98079-575-0	FV	N/A

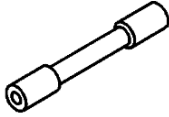
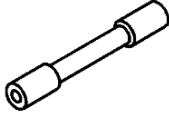
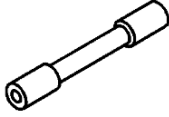
2004	2018	AIR FLOW CONTROL SENSOR		8-15306-113-0 All Wires Pre- Installed	8-19330-121-0	OEM	N/A
2019	2019	AIR FLOW CONTROL SENSOR		8-84677-313-0 All Wires Pre- Installed	8-23262-343-0	OEM	N/A
2003	2007	CAMSHAFT POSITION SENSOR		8-13585-316-0 All Wires Pre- Installed	8-12561-211-0	OEM	N/A
2008	2019	CAMSHAFT POSITION SENSOR		8-13585-316-0 All Wires Pre- Installed	8-12591-720-0	OEM	N/A
1996	2003	CRANKSHAFT POSITION SENSOR		8-13585-316-0 All Wires Pre- Installed	8-12596-851-0	OEM	N/A
2004	2007	CRANKSHAFT POSITION SENSOR		8-13585-316-0 All Wires Pre- Installed	8-12560-228-0	OEM	N/A
2008	2019	CRANKSHAFT POSITION SENSOR		8-88987-997-0 All Wires Pre- Installed	8-12585-546-0	OEM	N/A
1996	2003	ENGINE COOLANT TEMP SENSOR		8-88987-993-0 All Wires Pre- Installed	8-15326-386-0	OEM	N/A
2004	2019	ENGINE COOLANT TEMP SENSOR		8-88987-993-0 All Wires Pre- Installed	8-12608-814-0	OEM	N/A
2003	2019	EVAP EMISSION CANISTER VALVE		8-13585-860-0 All Wires Pre- Installed	8-12597-567-0	OEM	N/A
1996	2003	KNOCK SENSOR		8-12102-621-0 All Wires Pre- Installed	8-10456-288-0	OEM	N/A
2004	2007	KNOCK SENSOR		8-12102-621-0 All Wires Pre- Installed	8-12589-867-0	OEM	N/A
2008	2019	KNOCK SENSOR		8-13580-877-0 All Wires Pre- Installed	8-12623-730-0	OEM	N/A
1996	2008	MAP SENSOR		8-88987-997-0 All Wires Pre- Installed	8-12614-973-0	OEM	N/A

2009	2019	MAP SENSOR		8-13585-845-0 All Wires Pre-Installed	8-12644-228-0	OEM	N/A
2003	2007	OIL PRESSURE SENSOR		8-88988-301-0 All Wires Pre-Installed	8-12677-836-0	OEM	N/A
2008	2019	OIL PRESSURE SENSOR		8-19368-110-0 All Wires Pre-Installed	8-12673-134-0	OEM	N/A
2004	2019	OIL LEVEL SWITCH		8-13586-114-0 All Wires Pre-Installed	8-12603-782-0	OEM	N/A
2003	2013	OXYGEN SENSOR		8-15306-319-0 All Wires Pre-Installed	8-12609-457-0	OEM	N/A
2008	2019	OXYGEN SENSOR		8-13585-848-0 All Wires Pre-Installed	8-12572-705-0	OEM	N/A
2014	2019	OXYGEN SENSOR		8-15306-365-0 All Wires Pre-Installed	8-12640-115-0	OEM	N/A
1996	2009	A/T SPEED INPUT SENSOR		8-88987-993-0 All Wires Pre-Installed	8-24203-876-0	OEM	N/A
1996	2003	EGR VALVE		8-15306-027-0 All Wires Pre-Installed	8-12576-918-0	OEM	NA
1996	1998	EVAP CANISTER SWITCH		8-13586-114-0 All Wires Pre-Installed	8-12556-357-0	OEM	N/A
1996	2003	THROTTLE POSITION SENSOR		8-88988-301-0 All Wires Pre-Installed	8-17123-852-0	OEM	N/A
1996	2003	THROTTLE BODY CONTROL VALVE ASM.		8-13584-433-0 All Wires Pre-Installed	8-17113-209-0	OEM	N/A
2004	2007	THROTTLE VALVE ASM.		8-19367-637-0 All Wires Pre-Installed	8-12679-525-0	OEM	N/A
2008	2018	THROTTLE VALVE ASM.		8-13584-095-0 All Wires Pre-Installed	8-12679-524-0	OEM	N/A

REPAIR WIRES (wire with crimpless connector, seal, and terminal) SOLD IN QUANTITIES OF 10

FROM	TO	ENGINE	LOCATION	CONNECTOR No.	ILLUSTRATION	PART NUMBER
NPR/NPR HD/NQR/NRR/REACH (DIESEL)						
2005	2/2007	4HK1 (5.2L)	MAF & IAT	J-219		2-9406F-000-0
3/2007	2013	4HK1 (5.2L)	MAF & IAT	J-38/J-101		2-9406F-000-0
2005	2/2007	4HK1 (5.2L)	FUEL PRESSURE SENSOR	E-113		2-9406F-002-0
3/2007	2010	4HK1 (5.2L)	FUEL PRESSURE SENSOR	E-60		2-9406F-002-0
2005	2/2007	4HK1 (5.2L)	SCV – NEW VERSION	E-116		2-9406F-004-0
3/2007	2015	4HK1 (5.2L)	SCV – NEW VERSION	E-17		2-9406F-004-0
3/2007	2014	4HK1 (5.2L)	ACCEL PEDAL	B-5		2-9406F-017-0
2005	2007	4HK1 (5.2L)	FRAME TO ENG (MALE)	H-121M SMALL PIN	NOT ILLUSTRATED	2-9406F-030-0
2005	2007	4HK1 (5.2L)	FRAME TO ENG (FEMALE)	H-121F SMALL PIN	NOT ILLUSTRATED	2-9406F-031-0
2011	2015	4HK1 (5.2L)	FUEL SEDIMENTER	J-138		2-9406F-034-0
3/2007	2015	4HK1 (5.2L)	HEADLAMP	B-81/B-82		2-9406F-026-0
2011	2015	4JJ1 (3.0L)	ACCEL PEDAL	B-5		2-9406F-017-0
2011	2014	4JJ1 (3.0L)	EGR	E-15		2-9406F-015-0
2011	2015	4JJ1 (3.0L)	HEADLAMP	B-81/B-82		2-9406F-026-0
F-SERIES						
2004	2009	6HK1 (7.8L)	SCV – NEW VERSION	E-116		2-9406F-004-0

Chart 2
TERMINAL CONNECTORS

FROM	TO	DESCRIPTION	ILLUSTRATION	PART NUMBER	WIRE SIZE	COLOR
ALL	ALL	TERMINAL JOINT CONNECTOR		8-97169-473-0	0.3-0.5mm	OEM YELLOW
ALL	ALL	TERMINAL JOINT CONNECTOR		8-97169-474-0	0.75-1.25mm	OEM RED
ALL	ALL	TERMINAL JOINT CONNECTOR		8-97169-475-0	2.0mm	OEM BLUE
Chart 3						

Procedure

Repair kit and terminal wiring comes with preinstalled sealed solder butt splices. The below procedure is recommended to properly connect the wires.

1. Strip the harness wire 1/4", separate the wires strands.
2. Insert the harness wire into the sealed solder butt splice and intermingle the wire strands.
3. Apply heat evenly around the length of the tubing from the center out to the ends until the tubing completely shrinks over the wire and the adhesive flows.
4. Continue distributing heat over the solder sleeve until the solder flows into the wire strands.
5. Remove from heat and let cool.