DOZER

SERVICE MANUAL

HD100

HYUNDAI

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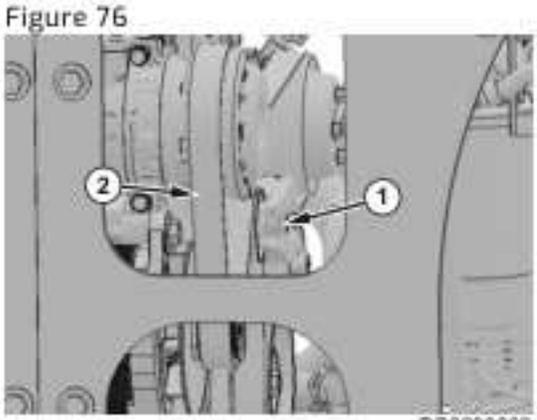
2. Remove mounting bolts from side support (1) and middle support (2).
   - Tool: 19 mm ( )
   - Torque: 107.9 N.m (11 kg.m, 79.6 ft lb)
3. Remove side support and middle support.
   - Side support weight: about 40 kg (88.2 lb)
   - Middle support weight: about 35 kg (77.2 lb)

V-belt

1. Insert the tool into the auto tensioner service hole (1).

   NOTE: *Before removing the belt, check the belt layout.*

   Figure 76



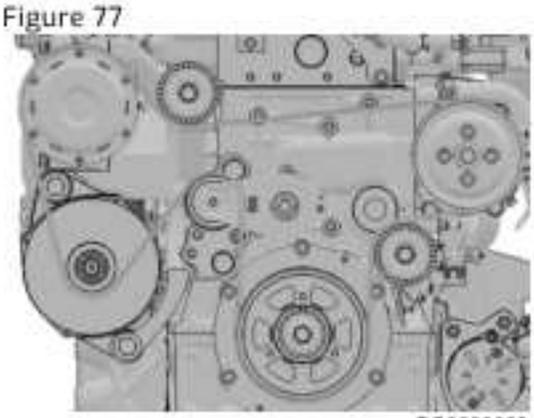
   DS2200868

2. Turn the auto tensioner with tool clockwise to loosen and put away the V-belt (2).

   NOTE: *If reusing V-belt, mark the rotation direction on the belt.*

3. Carefully release the tension.
4. Remove tool from auto tensioner service hole.

   Figure 77



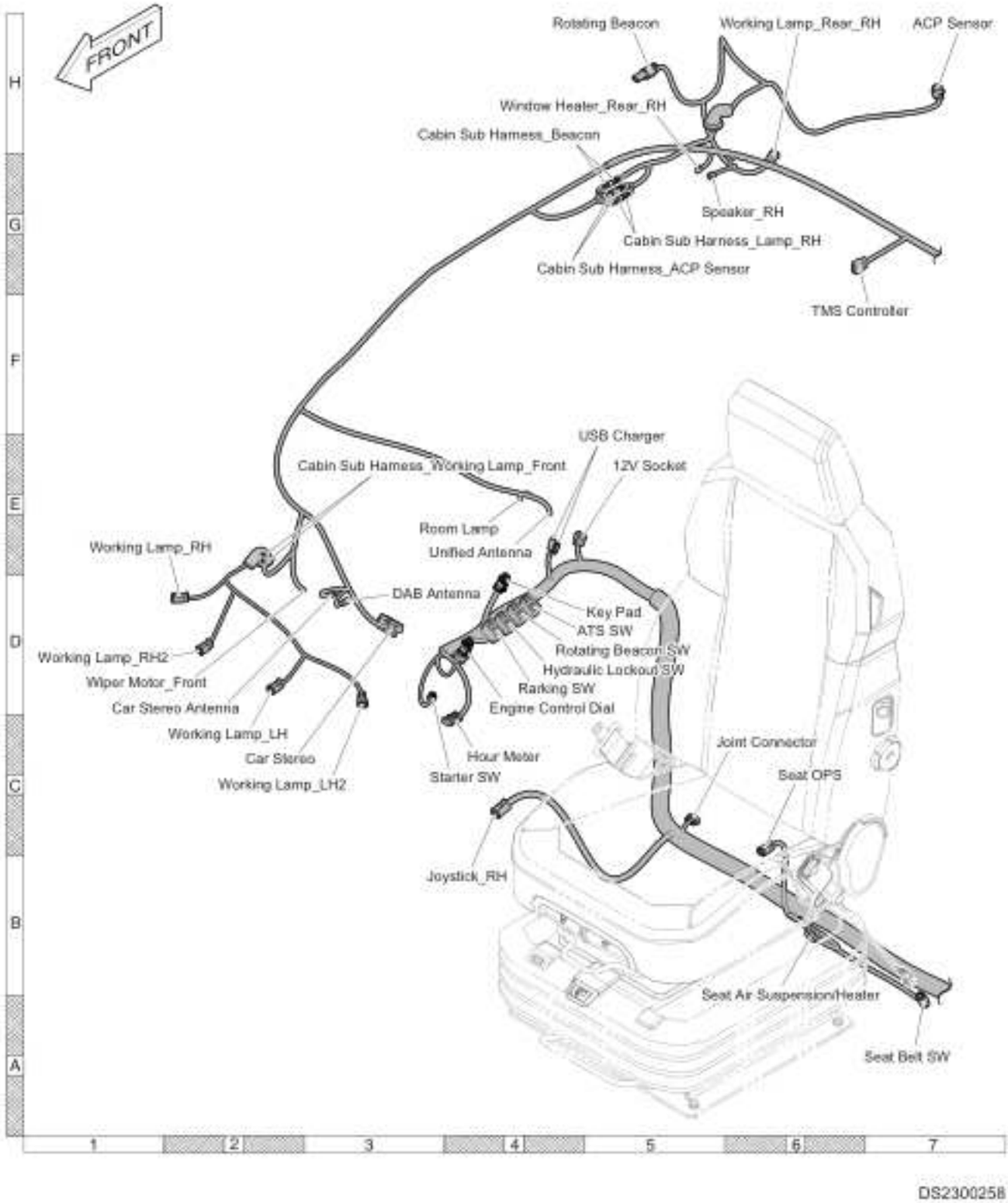
   DS2200869

   NOTE: *If equipped air conditioner compressor, please refer to V-belts layout.*

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Cabin Harness (1/2)

Figure 4



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Gauge Panel Fault Code	P Code	Fault Code Description
E520723-12	P12E5	NCD Inducement Fault Level1 (Group1 - EGR Block) - (P12E5)
E520724-12	P12E6	NCD Inducement Fault Level2 (Group1 - EGR Block) - (P12E6)
E520725-12	P12E7	NCD Inducement Fault Level3 Final inducement (Group1 - EGR Block) - (P12E7)
E520726-12	P12E8	NCD Inducement Fault Warning (Group1 - EGR Block) - (P12E8)
E520727-12	P12E9	NCD Inducement Fault Level1 (Group2 - Dosing Interrupt) - (P12E9)
E520728-12	P12EA	NCD Inducement Fault Level2 (Group2 - Dosing Interrupt) - (P12EA)
E520729-12	P12EB	NCD Inducement Fault Level3 Final inducement (Group2 - Dosing Interrupt) - (P12EB)
E520730-12	P12EC	NCD Inducement Fault Warning (Group2 - Dosing Interrupt) - (P12EC)
E520736-12	P12F2	NCD inducement Fault Level1 (Group4 - DEF Quality) - (P12F2)
E520737-12	P12F3	NCD inducement Fault Level2 (Group4 - DEF Quality) - (P12F3)
E520738-12	P12F4	NCD inducement Fault Level3 Final inducement (Group4 - DEF Quality) - (P12F4)
E520739-12	P12F5	NCD inducement Fault Warning (Group4 - DEF Quality) - (P12F5)
E520740-12	P12F6	NCD inducement Fault Level1 (Group5 - Tampering) - (P12F6)
E520741-12	P12F7	NCD inducement Fault Level2 (Group5 - Tampering) - (P12F7)
E520742-12	P12F8	NCD inducement Fault Level3 Final inducement (Group5 - Tampering) - (P12F8)
E520743-12	P12F9	NCD inducement Fault Warning (Group5 - Tampering) - (P12F9)
E520790-12	P1303	NCD inducement Repeat offense Level1 - (P1303)
E520791-12	P1304	NCD inducement Repeat offense Level2 - (P1304)
E520792-12	P1305	NCD inducement Repeat offense Level3 Final inducement - (P1305)
E520797-12	P1013	DEF Supply Pump pressure sensor Low plausibility fault - (P1013)

HST Error Code

Information Mentioned in Troubleshooting Table

Before performing troubleshooting, understand that information fully.Please refer to the DMS-5 for detailed information.

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General Maintenance Instructions

Safety Instructions

⚠ WARNING

AVOID DEATH OR SERIOUS INJURY

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments repairs or service. Untrained operators and failure to follow instructions can cause death or serious injury.

Welding Precautions and Instructions

⚠ WARNING

AVOID DEATH OR SERIOUS INJURY

To avoid accidents, personal injury and the possibility of causing damage to the machine or to components, welding must only be performed by properly trained and qualified personnel, who possess the correct certification (when required) for the specific welding fabrication or specialized repair being performed.

⚠ WARNING

AVOID DEATH OR SERIOUS INJURY

Structural elements of the machine may be built from a variety of steels. These could contain unique alloys or may have been heat-treated to obtain particular strength characteristics. It is extremely important that welding repairs on these types of steel are performed with the proper procedures and equipment. If repairs are performed incorrectly, structural weakening or other damage to the machine (that is not always readily visible) could result. Always consult with your dealer before welding on integral components of the machine. It is possible that some types of structurally critical repairs may require Magnetic Particle or Liquid Penetrant testing, to make sure there are no hidden cracks or damage before the machine can be returned to service.

⚠ WARNING

AVOID DEATH OR SERIOUS INJURY

Always perform welding procedures with proper safety equipment and adequate ventilation in a dry work area. Keep a fire extinguisher near and wear personal protective equipment.

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3. Only authorized people may start and operate engines. Unauthorized people should not be allowed to handle engines.
4. Do not access running or rotating parts while the engine is in operation.
5. Be careful not to touch or contact the engine during operation since it becomes hot during operation.
6. Exhaust gas is poisonous. Fully ventilate before starting engine. If the space is airtight, ensure that it is well ventilated.

Cautions for Inspection and Repair

1. Inspection and repair of engine should be performed only when the engine is stopped. Otherwise, burns or safety accidents may occur, so do not perform inspection or repair while the engine is running.
2. If it is absolutely necessary to perform inspection or repair on the operating engine, do not get close to the rotating parts.

⚠ DANGER

AVOID DEATH
When accessories such as necklaces, rings, watches, or gloves become stuck in rotating parts while the engine is running, serious bodily injury may occur.

⚠ WARNING

AVOID DEATH OR SERIOUS INJURY
Do not exchange or disassemble a pipe or horse (from the engine fuel circuit, engine oil circuit, coolant circuit, or compressed air circuit) while the engine is running. The leaked liquid may cause bodily injuries.

3. Use an engine oil drain container that is large enough to prevent the overflow of engine oil while draining engine oil.
4. Open the engine coolant cap after fully cooling the engine to exchange or replenish coolant.

⚠ WARNING

AVOID DEATH OR SERIOUS INJURY
If the coolant cap is opened while the engine is still hot, hot water will spurt out and may cause burns. Open the engine coolant cap after fully cooling the engine.

5. Fuel is highly flammable. Smoking or use of fire around an engine may cause fire.

⚠ WARNING

AVOID DEATH OR SERIOUS INJURY
Only refuel when the engine is stopped.

6. Mark and separately manage the containers for storing coolant from beverage containers for avoiding confusion. See a doctor immediately in case of drinking coolant.
7. Follow the instructions provided by the battery manufacturer when checking or handling batteries.

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WIRE	INC	MATERIAL	CSA	COL	FROM	CAV1	PLATING	TO	CAV2	PLATING
7A		AEXF	0.5	Br	EPDS 1	32		SP_7S	X	
7C		AEXF	0.85	Br	CABIN HARNESS	9		SP_7S	X	
7E		AEXF	0.85	Br	HST CONTROLLERS 2	40		SP_7S	X	
8C		AEXF	0.85	BrW	BATTERY HARNESS 1	1		CABIN HARNESS	10	
10A		AEXF	0.5	L	EPDS 2	20		CABIN HARNESS	11	
11A		AESSXF	0.75	GrB	ECU 1	30		CABIN HARNESS	12	
12A		AESSXF	0.75	Gr	ECU 1	72		CABIN HARNESS	13	
14A		AEXF	5	WL	MEGA FUSE 2	1		CACTAN	1	
16A		AEXF	5	BR	MEGA FUSE 4	1		AIRCON JOINT HARNESS A	1	
18A		AEXF	0.85	BR	RELAY JOINT 1	1		SP_9I8	X	
18B		AEXF	0.85	BR	FRONT WINDOW WASHER	1		SP_9I5	X	
18C		AEXF	0.85	BR	DIODE ARRAY 1	1		SP_9I8	X	
51A		AEXF	0.85	L	RELAY JOINT 1	3		SP_5I5	X	
51B		AEXF	0.85	L	REAR WINDOW WASHER	1		SP_5I9	X	
51C		AEXF	0.85	L	DIODE ARRAY 1	6		SP_5I5	X	
52A		AEXF	0.85	R	SIDE WINDOW WASHER (F)	1		SP_5I8	X	
52B		AEXF	0.85	R	SIDE WINDOW WASHER (R)	1		SP_5I8	X	
52C		AEXF	0.85	R	DIODE ARRAY 1	5		SP_5I5	X	
52D		AEXF	0.85	R	DIODE ARRAY 1	6		SP_5I8	X	
52E		AEXF	0.85	R	RELAY JOINT 1	3		SP_5I8	X	
56A		AEXF	0.5	WR	EPDS 2	54		CABIN HARNESS	14	
100A		AEXF	1.25	L	CABIN TILT MOTOR	2		BATTERY HARNESS 1	2	
215A		AEXF	1.25	RL	CABIN TILT MOTOR	1		BATTERY HARNESS 1	3	
213A		AEXF	5	W	ENGINE HARNESS 3	1		PREHEAT RELAY	87	
228A		AEXF	0.85	LgR	FUEL TEMP SENSOR	4		FUEL FULL LED LAMP	1	
201A		AEXF	2	RW	ENGINE HARNESS 4	2		SP_2S1	X	
201B		AEXF	2	RW	ENGINE HARNESS 4	4		SP_2S1	X	
201C		AEXF	3	RW	CABIN HARNESS	1		SP_2S1	X	
307B		AEXF	0.85	Y	RIGHT WIPER MOTOR	2		CABIN HARNESS	15	
308B		AEXF	0.85	GY	RIGHT WIPER MOTOR	3		CABIN HARNESS	16	
309B		AEXF	0.85	Gr	LEFT WIPER MOTOR	2		CABIN HARNESS	17	
310B		AEXF	0.85	L	LEFT WIPER MOTOR	3		CABIN HARNESS	18	
403A		AEXF	1.25	R	CABIN TILT FUSE	2		BATTERY HARNESS 1	4	
401B		AEXF	0.5	RY	CABIN HARNESS	80		SP_4S1I	X	
401C		AEXF	0.5	RY	BACK BUZZER	1		SP_4S1I	X	
401D		AEXF	0.5	RY	DIODE 1	2		SP_4S1I	X	
403C		AEXF	1.25	RW	CABIN HARNESS	20		SP_4S3I	X	
403D		AEXF	0.85	RW	HORN 1	1		SP_4S3I	X	
403E		AEXF	0.85	RW	HORN 2	1		SP_4S3I	X	
415A		AEXF	5	R	EQUALIZER	2		EQUALIZER FUSE	1	
445A		AEXF	0.85	R	RELAY JOINT 2	1		SP_4I6I	X	
446B		AESSXF	0.75	R	UREA SUPPLY MODULE	5		SP_4I6I	X	
446C		AEXF	0.85	R	SUCTION HEATER	2		SP_4I6I	X	
446E		AEXF	0.85	R	FREEZURE HEATER	2		SP_4I6I	X	
446F		AEXF	0.85	R	BACK FLOW HEATER	2		SP_4I6I	X	
446G		AEXF	0.85	R	REDUCTION HEATING W/	2		SP_4I6I	X	
522A		AEXF	0.85	BrW	RELAY JOINT 1	4		SP_5I2I	X	
522B		AESSXF	0.75	BrW	UREA SUPPLY MODULE	11		SP_5I2I	X	
522C		AESSXF	0.75	BrW	UREA SUPPLY MODULE	9		SP_5I2I	X	
61A		AEXF	5	R	BATTERY HARNESS 2	1		SP_B1S	X	
61B		AEXF	5	R	BATTERY HARNESS 2	2		SP_B1S	X	
61C		AEXF	5	R	MEGA FUSE 3	2		SP_B1S1	X	
61D		AEXF	5	R	MEGA FUSE 4	2		SP_B1S1	X	
61E		AEXF	5	R	MEGA FUSE 1	2		SP_B1S1	X	
61ZA		AEXF	5	R	SP_B1S	X		SP_B1S1	X	
62A		AEXF	5	RW	CABIN HARNESS	40		SP_B2S	X	
62F		AEXF	1.25	RW	CABIN TILT FUSE	1		SP_B2S	X	
92H		AEXF	5	RW	MEGA FUSE 1	1		SP_B2S	X	
94A		AEXF	1.25	W	SURGE KILLER	2		SP_B4S1	X	
94B		AEXF	5	W	EQUALIZER FUSE	2		SP_B4S	X	
94C		AEXF	5	W	BATTERY HARNESS 2	3		SP_B4S1	X	
94D		AEXF	5	W	BATTERY HARNESS 3	1		SP_B4S1	X	
94E		AEXF	5	W	CABIN HARNESS	54		SP_B4S	X	
94ZA		AEXF	5	W	SP_B4S	X		SP_B4S1	X	
95A		AEXF	5	WR	MEGA FUSE 2	2		SP_B5S	X	
99B		AEXF	5	WR	PREHEAT RELAY	30		SP_B5S1	X	
99E		AEXF	5	WR	PREHEAT FUSE (60A)	1		SP_B5S1	X	
99F		AEXF	5	WR	PREHEAT FUSE (60A)	2		SP_B5S1	X	
99G		AEXF	5	WR	BATTERY HARNESS 3	2		SP_B5S	X	
99H		AEXF	5	WR	BATTERY HARNESS 3	3		SP_B5S	X	
99ZA		AEXF	5	WR	SP_B5S	X		SP_B5S1	X	
96A		AEXF	5	W	MEGA FUSE 3	1		SP_B6S	X	
98B		AEXF	2	W	CABIN HARNESS	88		SP_B6S	X	
98C		AEXF	3	W	CABIN HARNESS	89		SP_B6S	X	
98D		AEXF	5	W	EQUALIZER	1		SP_B6S	X	
C11A		AEXF	0.5	Y	CABIN HARNESS	21	SH_01	SP_C11S	X	
C11B		AEXF	0.5	Y	EPDS 1	74	SH_02	SP_C11S	X	
C11C		AEXF	0.5	Y	CABIN HARNESS	56	SH_03	SP_C11S1	X	
C11E		AEXF	0.5	Y	HST CONTROLLERS 2	52	SH_04	SP_C11S1	X	
C11F		AEXF	0.5	Y	UREA TANK	3	SH_05	SP_C11S2	X	
C11G		AEXF	0.5	Y	ENGINE HARNESS 7	4	SH_06	SP_C11S3	X	
C11H		AEXF	0.5	Y	ECU 1	18	SH_07	SP_C11S3	X	
C11ZA		AEXF	0.5	Y	SP_C11S	X		SP_C11S1	X	
C11ZB		AEXF	0.5	Y	SP_C11S1	X		SP_C11S2	X	
C11ZC		AEXF	0.5	Y	SP_C11S2	X		SP_C11S3	X	
C12A		AEXF	0.5	YB	CABIN HARNESS	22	SH_01	SP_C12S	X	
C12B		AEXF	0.5	YB	EPDS 1	73	SH_02	SP_C12S	X	
C12C		AEXF	0.5	YB	CABIN HARNESS	58	SH_03	SP_C12S1	X	
C12E		AEXF	0.5	YB	HST CONTROLLERS 2	54	SH_04	SP_C12S1	X	
C12F		AEXF	0.5	YB	UREA TANK	4	SH_05	SP_C12S2	X	
C12G		AEXF	0.5	YB	ENGINE HARNESS 7	3	SH_06	SP_C12S3	X	
C12H		AEXF	0.5	YB	ECU 1	31	SH_07	SP_C12S3	X	
C12ZA		AEXF	0.5	YB	SP_C12S	X		SP_C12S1	X	
C12ZB		AEXF	0.5	YB	SP_C12S1	X		SP_C12S2	X	
C12ZC		AEXF	0.5	YB	SP_C12S2	X		SP_C12S3	X	
C13A		AEXF	–	Shield	CABIN HARNESS	23	SH_01	SP_C13S	X	
C13B		AEXF	–	Shield	EPDS 1	9	SH_02	SP_C13S	X	
C13C		AEXF	–	Shield	BLUNT_C13C	X		SP_C13S	X	
C13E		AEXF	–	Shield	BLUNT_C13E	X		SP_C13S	X	
C13F		AEXF	–	Shield	BLUNT_C13F	X		SP_C13S	X	

WIRE	INC	MATERIAL	CSA	COL	FROM	CAV1	PLATING	TO	CAV2	PLATING
C13G		AEXF	–	Shield	BLUNT_C13G	X		SP_C13S	X	
C13H		AEXF	–	Shield	BLUNT_C13H	X		SP_C13S	X	
C21A		AEXF	0.5	W	CABIN HARNESS	24	SH_09	SP_C21S	X	
C21F		AEXF	0.5	W	EPDS 1	51	SH_09	SP_C21S	X	
C21G		AEXF	0.5	W	CAN RESISTOR 2	1	SH_10	SP_C21S	X	
C22A		AEXF	0.5	G	CABIN HARNESS	25	SH_09	SP_C22S	X	
C22F		AEXF	0.5	G	EPDS 1	52	SH_09	SP_C22S	X	
C22G		AEXF	0.5	G	CAN RESISTOR 2	2	SH_10	SP_C22S	X	
C23A		AEXF	–	Shield	CABIN HARNESS	26	SH_09	SP_C23S	X	
C23F		AEXF	–	Shield	EPDS 1	53	SH_09	SP_C23S	X	
C23G		AEXF	–	Shield	BLUNT_C23G	X	SH_10	SP_C23S	X	
C31A		AEXF	0.5	Br	CABIN HARNESS	27	SH_11	SP_C31S	X	
C31C		AEXF	0.5	Br	EPDS 1	28	SH_12	SP_C31S	X	
C31D		AEXF	0.5	Br	TRIMBLE READY	1	SH_13	SP_C31S1	X	
C31E		AEXF	0.5	Br	HST CONTROLLERS 1	63	SH_14	SP_C31S2	X	
C31F		AEXF	0.5	Br	IMU SENSOR JOINT HARNESS 1	3	SH_15	SP_C31S3	X	
C31G		AEXF	0.5	Br	IMU SENSOR CAN 3 RESISTOR	1	SH_16	SP_C31S3	X	
C31ZA		AEXF	0.5	Br	SP_C31S	X		SP_C31S1	X	
C31ZB		AEXF	0.5	Br	SP_C31S1	X		SP_C31S2	X	
C31ZC		AEXF	0.5	Br	SP_C31S2	X		SP_C31S3	X	
C32A		AEXF	0.5	Y	CABIN HARNESS	29	SH_11	SP_C32S	X	
C32C		AEXF	0.5	Y	EPDS 1	7	SH_12	SP_C32S	X	
C32D		AEXF	0.5	Y	TRIMBLE READY	5	SH_13	SP_C32S1	X	
C32E		AEXF	0.5	Y	HST CONTROLLERS 1	62	SH_14	SP_C32S2	X	
C32F		AEXF	0.5	Y	IMU SENSOR JOINT HARNESS 1	4	SH_15	SP_C32S3	X	
C32G		AEXF	0.5	Y	IMU SENSOR CAN 3 RESISTOR	2	SH_16	SP_C32S3	X	
C32ZA		AEXF	0.5	Y	SP_C32S	X		SP_C32S1	X	
C32ZB		AEXF	0.5	Y	SP_C32S1	X		SP_C32S2	X	
C32ZC		AEXF	0.5	Y	SP_C32S2	X		SP_C32S3	X	
C33A		AEXF	–	Shield	CABIN HARNESS	28	SH_11	SP_C33S	X	
C33C		AEXF	–	Shield	EPDS 1	8	SH_12	SP_C33S	X	
C33D		AEXF	–	Shield	BLUNT_C33D	X	SH_13	SP_C33S	X	
C33E		AEXF	–	Shield	BLUNT_C33E	X	SH_14	SP_C33S	X	
C33F		AEXF	–	Shield	BLUNT_C33F	X	SH_15	SP_C33S	X	
C33G		AEXF	–	Shield	BLUNT_C33G	X	SH_16	SP_C33S	X	
C41A		AEXF	0.5	Br	ECU 1	61	SH_19	CABIN HARNESS	39	
C42A		AEXF	0.5	YL	ECU 1	60	SH_19	CABIN HARNESS	31	
C51E		AEXF	0.5	W	HST CONTROLLERS 2	15	SH_17	SP_C51S	X	
C51F		AEXF	0.5	W	CABIN HARNESS	32	SH_21	SP_C51S	X	
C51G		AEXF	0.5	W	CAN RESISTOR 5	1	SH_22	SP_C51S	X	
C52E		AEXF	0.5	G	HST CONTROLLERS 2	16	SH_17	SP_C52S	X	
C52F		AEXF	0.5	G	CABIN HARNESS	33	SH_21	SP_C52S	X	
C52G		AEXF	0.5	G	CAN RESISTOR 5	2	SH_22	SP_C52S	X	
E101A		AEXF	1.25	Or	ECU 1	1		SP_E101S	X	
E101E		AEXF	1.25	Or	ECU 1	3		SP_E101S	X	
E101C		AEXF	1.25	Or	ECU 1	5		SP_E101S	X	
E101D		AEXF	1.25	Or	UREA TANK	1		SP_E101S	X	
E101E		AEXF	2	Or	CABIN HARNESS	2		SP_E101S1	X	
E101F		AEXF	2	Or	RELAY JOINT 1	12		SP_E101S1	X	
E101G		AEXF	1.25	Or	BATTERY HARNESS 1	5		SP_E101S1	X	
E101Q		AEXF	0.85	Gr	ENGINE HARNESS 1	1		SP_E101S	X	
E101T		AEXF	0.85	Or	PREHEAT RELAY	86		SP_E101S	X	
E101ZA		AEXF	2	Or	SP_E101S	X		SP_E101S1	X	
E110A		AESSXF	0.75	BrY	ECU 1	10		CABIN HARNESS	34	
E111A		AEXF	0.5	BL	ECU 1	11		CABIN HARNESS	35	
E115A		AESSXF	0.75	B	ECU 1	15		ENGINE HARNESS 7	9	
E116A		AESSXF	0.75	Br	ECU 1	16		ENGINE HARNESS 7	7	
E118A		AEXF	0.5	LY	ECU 1	68		CABIN HARNESS	38	
E119A		AESSXF	0.75	LW	ECU 1	69		RELAY JOINT 1	8	
E205A		AESSXF	0.75	LG	ENGINE HARNESS 5	9		REDUCTION HEATING W/	1	
E215A		AESSXF	0.75	G	ENGINE HARNESS 5	10		UREA SUPPLY MODULE	3	
E213A		AESSXF	0.75	GB	ENGINE HARNESS 5	12		UREA SUPPLY MODULE	4	
E214A		AESSXF	0.75	GL	ENGINE HARNESS 5	11		UREA SUPPLY MODULE	5	
E205A		AESSXF	0.75	GW	ENGINE HARNESS 6	9		UREA SUPPLY MODULE	6	
E206B		AEXF	0.85	LR	BACK FLOW HEATER	1		SP_E206S	X	
E206C		AESSXF	0.75	LR	ENGINE HARNESS 5	2		SP_E206S	X	
E206D		AEXF	0.85	LW	RELAY JOINT 2	3		SP_E206S	X	
E206C		AESSXF	0.75	LW	ENGINE HARNESS 5	4		SP_E206S	X	
E206D		AEXF	0.85	LW	SUCTION HEATER	1		SP_E206S	X	
E206A		AEXF	0.5	GW	ENGINE HARNESS 5	1		RELAY JOINT 1	10	
E271A		AESSXF	0.75	G	ENGINE HARNESS 6	2		DOZING MODULE	2	
E275B		AEXF	0.85	LY	RELAY JOINT 1	11		SP_E275S	X	
E275C		AESSXF	0.75	LY	ENGINE HARNESS 5	5		SP_E275S	X	
E275D		AEXF	0.85	LY	PRESSURE HEATER	1		SP_E275S	X	
E280B		AEXF	0.85	L	RELAY JOINT 2	4		SP_E280S	X	
E280C		AESSXF	0.75	L	ENGINE HARNESS 5	5		SP_E280S	X	
E280D		AESSXF	0.75	L	UREA SUPPLY MODULE	6		SP_E280S	X	
E281A		AESSXF	0.75	BrB	ENGINE HARNESS 6	4		UREA SUPPLY MODULE	13	
E282A		AESSXF	0.75	BrR	ENGINE HARNESS 6	5		UREA SUPPLY MODULE	16	
E283B		AEXF	0.85	BG	ENGINE HARNESS 6	7		PREHEAT RELAY	85	
E284A		AESSXF	0.75	Lg	ENGINE HARNESS 6	3		DOZING MODULE	1	
F183A		AEXF	0.5	GrR	CABIN HARNESS	41		SP_F183S	X	
F183B		AEXF	0.5	GrR	IMU SENSOR JOINT HARNESS 1	1		SP_F183S	X	
F183C		AEXF	0.5	GrR	IMU SENSOR JOINT HARNESS 2	1		SP_F183S	X	
F183E		AEXF	0.5	GrR	W/F SENSOR	1		SP_F183S	X	
F185A		AEXF	0.85	GrL	CABIN HARNESS	66		LEFT WIPER MOTOR	1	
F185B		AEXF	0.85	RL	CABIN HARNESS	67		RIGHT WIPER MOTOR	1	

WIRE	INC	MATERIAL	CSA	COL	FROM	CAV1	PLATING	TO	CAV2	PLATING
F11A		AEXF	1.25	RY	CABIN HARNESS	42		RELAY JOINT 2	12	
F12A		AEXF	0.85	RB	FUEL TEMP SENSOR	3		CABIN HARNESS	43	
F14A		AEXF	0.85	Gr	CABIN HARNESS	10		TRIMBLE READY	3	
F201A		AEXF	3	RL	FUEL HEATER 1	2		CABIN HARNESS	5	
F202A		AEXF	3	R	FUEL HEATER 2	2		CABIN HARNESS	6	
F2EC		AEXF	0.85	R	RELAY JOINT 2	7		CABIN HARNESS	45	
F20A		AEXF	2	RW	RELAY JOINT 2	5		CABIN HARNESS	9	
F21GA		AEXF	2	WL	CABIN HARNESS	8		SP_F21S	X	
F21B		AEXF	0.85	WL	HST CONTROLLERS 2	1		SP_F21S	X	
F21EC		AEXF	0.85	WL	HST CONTROLLERS 2	3		SP_F21S	X	
F21D		AEXF	0.85	WL	HST CONTROLLERS 2	4		SP_F21S	X	
F21GE		AEXF	0.85	WL	HST CONTROLLERS 2	5		SP_F21S	X	
F21EF		AEXF	0.85	WL	HST CONTROLLERS 2	6		SP_F21S	X	
F21GH		AEXF	0.85	WL	HST CONTROLLERS 2	45		SP_F21S	X	
F21GK		AEXF	0.85	WL	HST CONTROLLERS 2	58		SP_F21S	X	
F21JL		AEXF	0.85	WL	HST CONTROLLERS 2	28		SP_F21S	X	
F21GA		AEXF	0.85	WG	EPDS 1	4		SP_F21S	X	
F21GB		AEXF	0.85	WG	EPDS 1	5		SP_F21S	X	
F21GC		AEXF	0.85	WG	EPDS 1	6		SP_F21S	X	
F21GD		AEXF	0.5	WG	EPDS 1	28		SP_F21S	X	
F21GE		AEXF	2	WG	CABIN HARNESS	8		SP_F21S	X	
F21GF		AEXF	0.5	WG	EPDS 1	59		SP_F21S	X	
F21GG		AEXF	0.85	WG	TRIMBLE READY	1		SP_F21S	X	
G13A		AEXF	0.5	Or	CABIN HARNESS	81	TW_12	REAR VIEW CAMERA	1	
G14A		AEXF	0.5	Y	CABIN HARNESS	83	SH_18	REAR VIEW CAMERA	4	
G21A		AEXF	0.5	GrB	CABIN HARNESS	82	TW_12	REAR VIEW CAMERA	2	
G22A		AEXF	0.5	YB	CABIN HARNESS	84	SH_18	REAR VIEW CAMERA	3	
H11A		AEXF	0.5	WR	HST CONTROLLERS 1	13		RH MOTOR SPEED SENSOR	1	
H11A		AEXF	0.5	WL	HST CONTROLLERS 1	11		RH MOTOR SPEED SENSOR	4	
H12A		AEXF	0.5	WR	HST CONTROLLERS 1	12		LH MOTOR SPEED SENSOR	1	
H13A		AEXF	0.5	YL	HST CONTROLLERS 1	13		LH MOTOR SPEED SENSOR	4	
H20AA		AEXF	0.5	YW	HST CONTROLLERS 1	26		CABIN HARNESS	46	
H14JA		AEXF	0.5	LW	HST CONTROLLERS 1	42		RH TRAVEL FORWARD SENSOR	2	
H14JA		AEXF	0.5	LY	HST CONTROLLERS 1	43		LH TRAVEL REVERSE SENSOR	2	
H144A		AEXF	0.5	WR	HST CONTROLLERS 1	46		SP_H144S	X	
H144B		AEXF	0.5	WR	LH MOTOR SPEED SENSOR	2		SP_H144S	X	
H144C		AEXF	0.5	WR	RH MOTOR SPEED SENSOR	2		SP_H144S	X	
H144D		AEXF	0.5	WR	RH TRAVEL FORWARD SENSOR	3		SP_H144S	X	
H144E		AEXF	0.5	WR	RH TRAVEL REVERSE SENSOR	3		SP_H144S	X	
H144F		AEXF	0.5	WR	LH TRAVEL FORWARD SENSOR	3		SP_H144S	X	
H144G		AEXF	0.5	WR	LH TRAVEL REVERSE SENSOR	3		SP_H144S	X	
H144H		AEXF	0.5	WR	CABIN HARNESS	47		SP_H144S	X	
H151A		AEXF	0.5	GW	HST CONTROLLERS 1	51		SP_H151S	X	
H151B		AEXF	0.5	GW	LH TRAVEL MOTOR P/V	1	TW_01	SP_H151S	X	
H153A		AEXF	0.5	LgW	HST CONTROLLERS 1	53		SP_H153S	X	
H153B		AEXF	0.5	LgW	LH PUMP FORWARD P/V	1	TW_02	SP_H153S	X	
H154A		AEXF	0.5	LW	HST CONTROLLERS 1	54		SP_H154S	X	
H154B		AEXF	0.5	LW	RH PUMP FORWARD P/V	1	TW_03	SP_H154S	X	
H175A		AEXF	0.5	GW	HST CONTROLLERS 1	75		SP_H175S	X	
H175B		AEXF	0.5	GW	RH TRAVEL MOTOR P/V	1	TW_04	SP_H175S	X	
H177A		AEXF	0.5	LgR	HST CONTROLLERS 1	77		SP_H177S	X	
H177B		AEXF	0.5	LgR	LH PUMP REVERSE P/V	1	TW_04	SP_H177S	X	
H178A		AEXF	0.5	LR	HST CONTROLLERS 1	78		SP_H178S	X	
H178B		AEXF	0.5	LR	RH PUMP REVERSE P/V	1	TW_05	SP_H178S	X	
H183A		AEXF	0.5	LgB	HST CONTROLLERS 1	83		SP_H183S	X	
H183B		AEXF	0.5	LgB	LH PUMP FORWARD P/V	2	TW_02	SP_H183S	X	
H183C		AEXF	0.5	LgB	LH PUMP REVERSE P/V	2	TW_03	SP_H183S	X	
H184A		AEXF	0.5	LB	HST CONTROLLERS 1	84		SP_H184S	X	
H184B		AEXF	0.5	LB	RH PUMP FORWARD P/V	2	TW_03	SP_H184S	X	
H184C		AEXF	0.5	LB	RH PUMP REVERSE P/V	2	TW_05	SP_H184S	X	
H185A		AEXF	0.5	GB	HST CONTROLLERS 1	85		SP_H185S	X	
H185B		AEXF	0.5	GB	LH TRAVEL MOTOR P/V	2	TW_01	SP_H185S	X	
H185C		AEXF	0.5	GB	RH TRAVEL MOTOR P/V	2	TW_04	SP_H185S	X	
H20AA		AEXF	0.5	YR	HST CONTROLLERS 2	59		CABIN HARNESS	30	
H22AA		AEXF	0.5	BrL	HST CONTROLLERS 2	24		LH TRAVEL FORWARD SENSOR	2	
H22KA		AEXF	0.5	YL	HST CONTROLLERS 2	26		CABIN HARNESS	51	
H22GA		AEXF	0.5	RL	HST CONTROLLERS 2	33		SP_H252S	X	
H23GB		AEXF	0.5	RL	LH MOTOR SPEED SENSOR	1		SP_H252S	X	
H23GC		AEXF	0.5	RL	RH MOTOR SPEED SENSOR	1		SP_H252S	X	
H25GA		AEXF	0.5	LR	HST CONTROLLERS 2	35		RH TRAVEL REVERSE SENSOR	2	
H23GA		AEXF	0.5	GB	HST CONTROLLERS 2	38	TW_07	SP_H236S	X	
H23KB		AEXF	0.5	GB	CABIN HARNESS	52		SP_H236S	X	
H25SA		AEXF	0.5	G	HST CONTROLLERS 2	55	TW_07	SP_H255S	X	
H25GB		AEXF	0.5	G	CABIN HARNESS	53		SP_H255S	X	
H25SC		AEXF	0.85	G	RH TRAVEL FORWARD SENSOR	1		SP_H255S	X	
H25GD		AEXF	0.85	G	RH TRAVEL REVERSE SENSOR	1		SP_H255S	X	
H25SE		AEXF	0.85	G	LH TRAVEL FORWARD SENSOR	1		SP_H255S	X	
H25SF		AEXF	0.85	G	LH TRAVEL REVERSE SENSOR	1		SP_H255S	X	
V11A		AEXF	0.85	WG	EPDS 1	12		CABIN HARNESS	55	
V14A		AEXF	0.5	RB	EPDS 1	14		RETURN FILTER SWITCH	1	
V19A		AEXF	0.5	GrY	EPDS 1	19		AIRCON JOINT HARNESS B	2	
V12A		AEXF	0.5	BY	EPDS 1	23	TW_08	W/F SENSOR	3	
V13A		AEXF	0.5	BY	EPDS 1	33		CAC FAN	3	
V14A		AEXF	0.5	WY	EPDS 1	42		SP_V142S	X	
V142E		AEXF	0.5	WY	PARKING BRAKE PRESSURE SENSOR	2		SP_V142S	X	
V142C		AEXF	0.5	WY	CABIN HARNESS	59		SP_V142S	X	
V142D		AEXF	0.5	WY	LS PRESSURE SENSOR	1		SP_V142S	X	
V143A		AEXF	0.5	LgB	EPDS 1	43		SP_V143S	X	
V143E		AEXF	0.5	LgB	PARKING BRAKE PRESSURE SENSOR	1	TW_09	SP_V143S	X	
V143C		AEXF	0.5	LgB	CABIN HARNESS	61	TW_10	SP_V143S	X	
V143D		AEXF	0.5	LgB	LS PRESSURE SENSOR	3	TW_02	SP_V143S	X	
V144A		AEXF	0.5	LB	EPDS 1	44		SP_V144S	X	
V144B		AEXF	0.85	LB	FUEL TEMP SENSOR	2		SP_V144S	X	
V144C		AEXF	0.85	LB	HYDRAULIC TEMP SENSOR	1		SP_V144S	X	
V144D		AEXF	0.85	LB	CABIN HARNESS	57		SP_V144S	X	
V15A		AEXF	0.85	GW	EPDS 1	53		HYDRAULIC TEMP SENSOR	2	
V15A		AEXF	0.5	Br	EPDS 1	54	TW_08	W/F SENSOR	2	
V16A		AEXF	0.5	BrR	EPDS 1	66		CABIN HARNESS	62	
V167A		AEXF	0.5	BL	EPDS 1	67		SP_V167S	X	
V167B		AEXF	0.5	BL	PARKING BRAKE PRESSURE SENSOR	1	TW_09	SP_V167S	X	
V171A		AEXF	0.5	GY	EPDS 1	71		CABIN HARNESS	64	
V175A		AEXF	0.85	LgR	EPDS 1	75		FUEL TEMP SENSOR	1	
V176A		AEXF	0.85	Gr	EPDS 1	76		CABIN HARNESS	65	
V177A		AEXF	0.5	BW	EPDS 1	77		DUST INDICATOR	2	
V189A		AEXF	0.5	BW	EPDS 1	89		SP_V189S	X	
V189B		AEXF	0.5	BW	LS PRESSURE SENSOR	2	TW_10	SP_V189S	X	
V192A		AEXF	0.5	LR	EPDS 1	92		SP_V192S	X	
V192B		AEXF	0.5	LR	CABIN HARNESS	63	TW_11	SP_V192S	X	

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