SEN02387-05

Shop Manual

BULLDOZER

D61EX-15E0
D61PX-15E0

SERIAL NUMBERS

D61EX- B45001 and up
D61PX- B45001

ecot3

KOMATSU®

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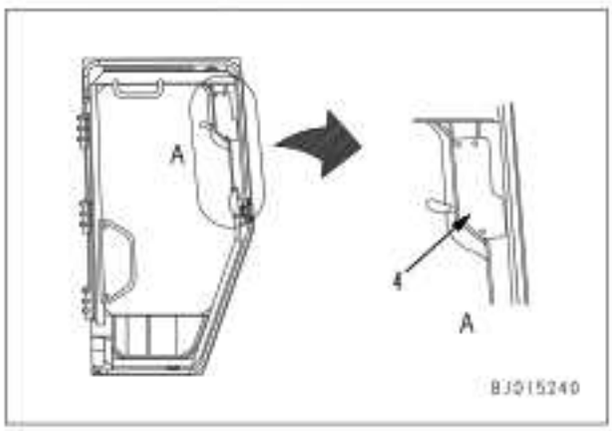
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4. Testing door lock (Door link)

Close the door and check the relationship between the operator's cab and door. If there is the following fault, repair it.

- When the door open lever (on the inside of the door) or the door knob (on the outside of the door) is operated, the door does not open or it is heavy to open.
- When the door is closed, the door bounds and does not close.

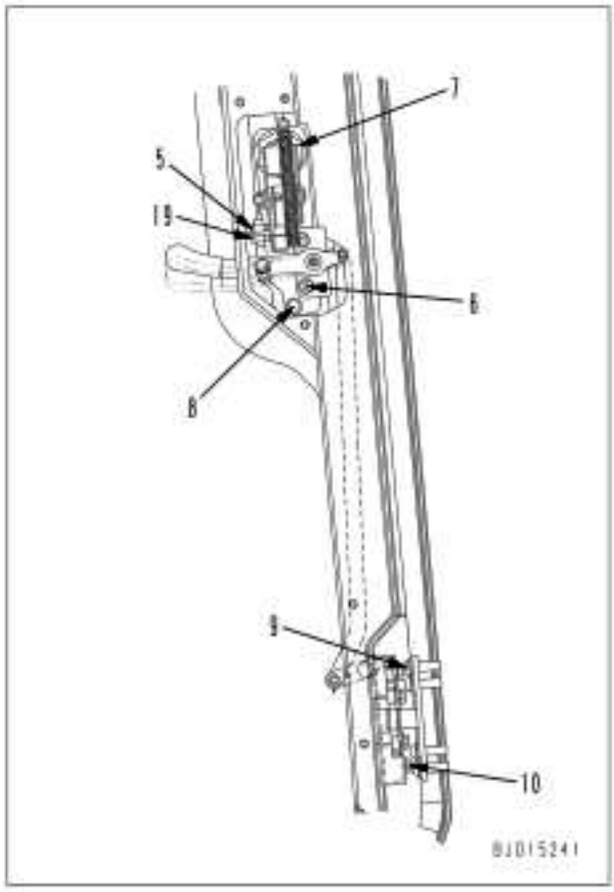
1) Remove plate (4) from the door link.



2) Check that door link bolts and nuts (5), (6), (7), (8), (9), and (10) are tightened.

★ If they are loosened, tighten them to the following tightening torque.

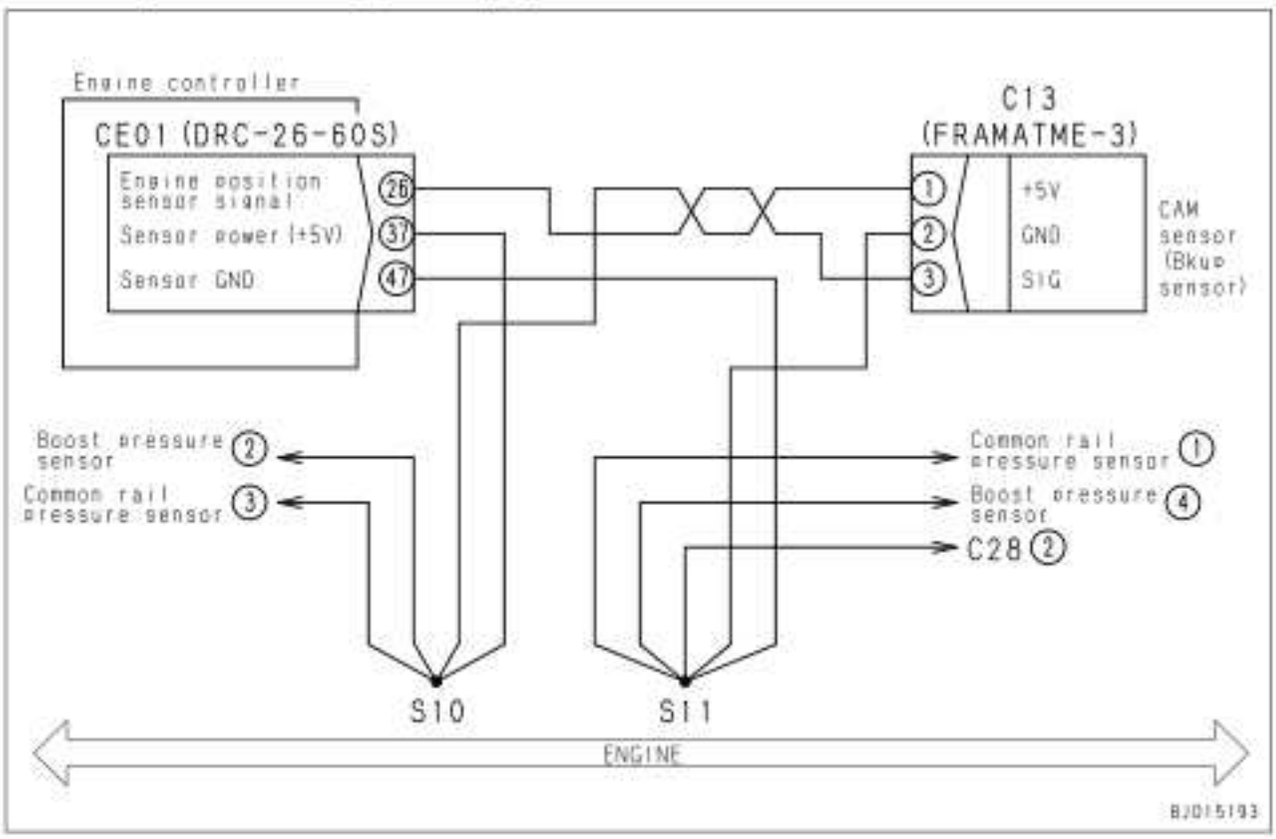
- Tightening torque of M8 nut (Width across flats: 13 mm) (5), (19): **27 – 34 Nm {2.8 – 3.5 kgm}**
- Tightening torque of M6 hexagon socket head bolt (Width across flats of socket: 4 mm) (6): 9.8 Nm {1.0 kgm}
- Tightening torque of M28 nut (Width across flats: 36 mm) (7): **11.8 – 14.7 Nm {1.2 – 1.5 kgm}**
- Threads: Adhesive (LT-2)
- Tightening torque of M6 bolt (Width across flats: 10 mm) (8): **11.8 – 14.7 Nm {1.2 – 1.5 kgm}**
- Tightening torque of M8 hexagon socket head bolt (Width across flats of socket: 5 mm) (9): **25.5 Nm {2.6 kgm}**
- Tightening torque of M6 bolt (Width across flats: 10 mm) (10): **11.8 – 14.7 Nm {1.2 – 1.5 kgm}**



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	Cause		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	8	Harness short (Harness internal short)	★ Prepare with starting switch OFF and diagnose with starting switch still OFF.		
			Wiring harnesses between CE01 (female) (26) – C13 (female) (3) and among CE01 (female) (37) – S10 – C13 (female) (1)	Resistance	Min. 100 kΩ
			Wiring harnesses between CE01 (female) (26) – C13 (female) (3) and among CE01 (female) (47) – S11 – C13 (female) (2)	Resistance	Min. 100 kΩ
	9	Defective wiring harness connector	Since the connections among engine Bkup speed sensor – engine harness – engine controller are suspected to be defective, check a the defective connection. • Connector is loose, lock is broken, seal is broken • Pin is corroded, bent, broken, pushed in, expanded. • Moisture in connector, entry of dirt or sand, etc., and insufficient insulation		
	10	Defective engine controller	★ Prepare with starting switch OFF and diagnose with starting switch ON.		
			CE01		Voltage
			Between (37) – (47)	Power source	4.75 – 5.25 V

Circuit diagram related to engine Bkup speed sensor



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Failure code [DK30KZ] Steering potentiometer: Disconnection or short circuit (Double failure)

Action code	Failure code	Trouble	Steering potentiometer: Disconnection or short circuit (Steering and transmission controller system)
CALL E04	**DK30KZ**		
Contents of trouble	• At steering potentiometer systems 1 and 2, when starting switch was turned ON, only either of them showed abnormality and later, either failure code [**DK30KA**] or [**DK30KB**] or either failure code [**DK31KA**] or [**DK31KB**] occurred at the same time.		
Action of controller	• Flashes warning lamp and turns on alarm buzzer. • Limits operation of engine, transmission and brake.		
Problem that appears on machine	• Once machine is stopped, engine speed is limited to medium (half). • Once machine is stopped, it becomes impossible to travel.		
Related information	• Input status (voltage) from steering potentiometer can be checked in monitoring mode. (Code 50300: Steering potentiometer 1 voltage) (Code 50301: Steering potentiometer 2 voltage) • Method of reproducing failure code: Turn starting switch ON + (Shift PCCS lever (steering))		

Possible causes and standard value in normal state	Cause	Standard value in normal state/Remarks on troubleshooting
	Carry out troubleshooting for failure code [**DK30KA**] [**DK30KB**] [**DK31KA**] [**DK31KB**]	

Failure code [DK30L8] Steering potentiometer: Inconsistent analog signal

Action code	Failure code	Trouble	Steering potentiometer: Inconsistent analog signal (Steering and transmission controller system)
CALL E03	**DK30L8**		
Contents of trouble	• Total signal voltage of steering potentiometer systems 1 and 2 is less than 4.41 V or more than 5.59 V.		
Action of controller	• Flashes warning lamp and turns on alarm buzzer. • Continues to keep it under control with the normal signal of either steering potentiometer system 1 or 2. • Limits operation of engine and transmission.		
Problem that appears on machine	• Once machine is stopped, engine speed is limited to medium (half). • Once machine is stopped, travel is limited to F1 and R1.		
Related information	• Input status (voltage) from steering potentiometer can be checked in monitoring mode. (Code 50300: Steering potentiometer 1 voltage) (Code 50301: Steering potentiometer 2 voltage) • Method of reproducing failure code: Turn starting switch ON + (Shift PCCS lever (forward-reverse))		

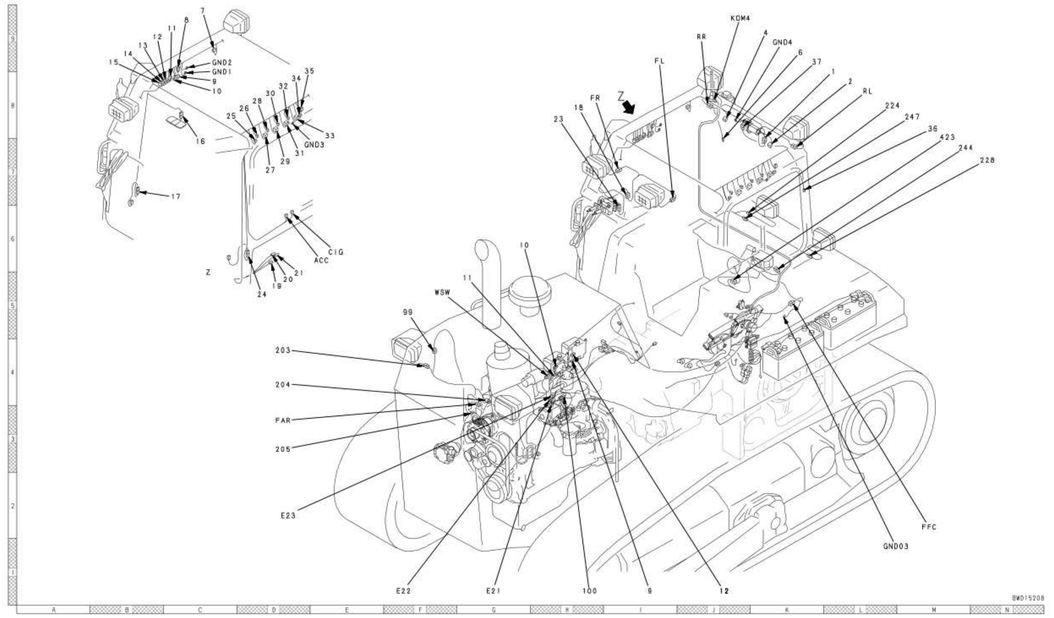
Possible causes and standard value in normal state	Cause	Standard value in normal state/Remarks on troubleshooting
	Carry out troubleshooting for failure code [**DK30KA**] [**DK30KB**] [**DK31KA**] [**DK31KB**]	

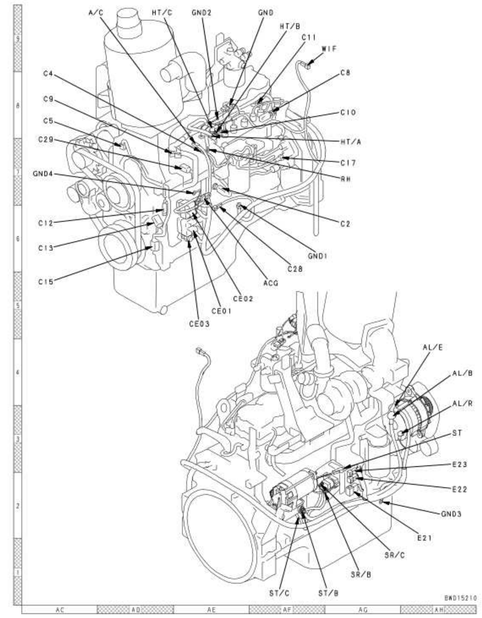
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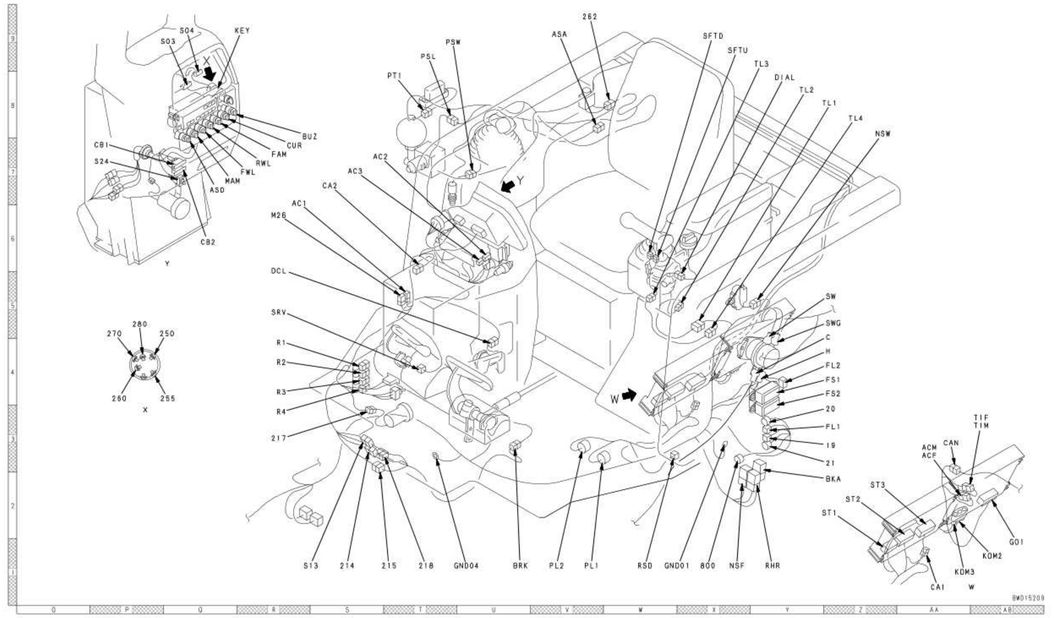
Connector arrangement diagram

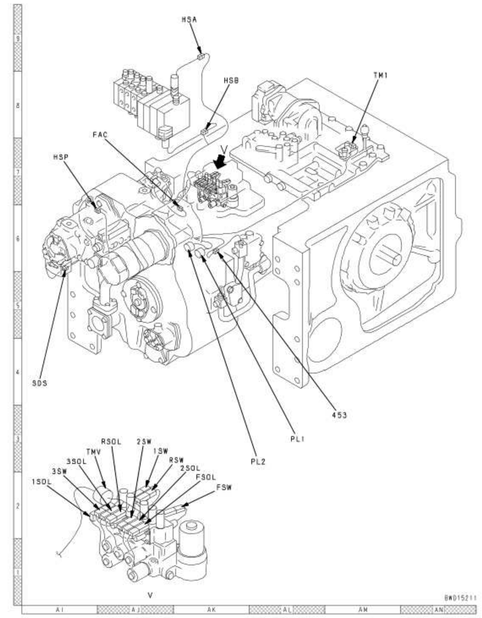
Connector No.	Type	Number of pins	Location	Address of stereogram
1	DT	4	Intermediate connector [Cab specification]	L-8
2	KES1	2	Rear speaker (Left) [Cab specification]	L-8
4	KES1	2	Rear speaker (Right) [Cab specification]	K-9
6	One-pin connector	1	Heater wire glass [Cab specification]	K-9
7	PA	9	Radio [Cab specification]	C-9
8	DT	2	Accessory (12 V) [Cab specification]	C-9
9	YAZAKI	3	Heater wire glass switch [Cab specification]	C-8
9	KES1	2	Washer motor (Left)	I-1
10	M	2	Additional light switch [Cab specification]	C-8
10	KES1	2	Washer motor (Right)	G-6
11	M	2	Wiper intermittent switch [Cab specification]	C-9
11	M	2	Washer motor (Front)	G-5
12	KES1	6	Rear wiper switch [Cab specification]	B-9
12	M	2	Washer motor (Rear)	J-1
13	KES1	6	Right door wiper switch [Cab specification]	B-9
14	KES1	6	Front wiper switch [Cab specification]	B-9
15	KES1	6	Left door wiper switch [Cab specification]	B-9
16	KES1	2	Room lamp [Cab specification]	C-7
17	DT	4	Right door wiper [Cab specification]	C-7
18	DT	4	Intermediate connector [Cab specification]	H-8
19	DT	4	Intermediate connector (Windshield washer motor) [Cab specification]	D-5, Z-3
20	DTHD#8	1	Cab power supply [Cab specification]	D-5, Z-3
21	DTHD#12	1	Cab power supply (Battery direct) [Cab specification]	D-6, Z-3
23	DT	6	Front wiper [Cab specification]	H-8
24	DT	4	Left door wiper [Cab specification]	D-5
25	Relay (YAZAKI)	4	For light [Cab specification]	C-8
26	Relay (YAZAKI)	6	Left wiper intermittent relay [Cab specification]	D-8
27	Relay	5	Left wiper intermittent selector relay [Cab specification]	D-7
28	Relay (YAZAKI)	6	Front wiper intermittent relay [Cab specification]	D-8
29	Relay	5	Front wiper intermittent selector relay [Cab specification]	D-7
30	Relay (YAZAKI)	6	Right wiper intermittent relay [Cab specification]	D-8
31	Relay	5	Right wiper intermittent selector relay [Cab specification]	D-7
32	Relay (YAZAKI)	6	Rear wiper intermittent relay [Cab specification]	D-8
33	Relay	5	Rear wiper intermittent selector relay [Cab specification]	E-8
34	Relay (YAZAKI)	4	Heater wire glass relay [Cab specification]	D-8
35	M	4	Converter [Cab specification]	D-8
36	One-pin connector	1	Heater wire glass [Cab specification]	M-8
37	KES1	4	Rear wiper [Cab specification]	K-9
99	DT	6	Intermediate connector (Radiator guard)	F-5
100	SWP	6	Intermediate connector (Headlamp)	H-1
203	DT	2	Right head lamp	D-4
204	DT	2	Left head lamp	D-4
205	One-pin connector	1	Horn	D-3
214	DT-B	12	Intermediate connector [Dashboard]	S-1
215	DT-C	12	Intermediate connector [Dashboard]	S-1
217	DT	2	Caution buzzer	R-3
218	DT-D	12	Intermediate connector (Air conditioner)	T-1
224	DT	2	Left working lamp	L-8
228	DT	2	Working lamp	N-7
244	DT	2	Backup alarm	M-7
247	DT	2	Intermediate connector (Left working lamp)	M-8
250	Terminal	1	Starting switch terminal B	Q-5
255	Terminal	1	Starting switch terminal R1	Q-4
260	Terminal	1	Starting switch terminal BR	P-4
262	DT	2	Horn switch	V-9
270	Terminal	1	Starting switch terminal ACC	P-5
280	Terminal	1	Starting switch terminal C	P-5
423	DT	2	Fuel level sensor	M-7
453	DT	2	Torque converter oil temperature sensor	AM-3
800	DTHD#12	1	Service power supply	X-1
1SOL	DT	2	1st clutch ECMV solenoid	AI-2
1SW	DT	2	1st clutch ECMV (Fill switch)	AJ-3
2SOL	DT	2	2nd clutch ECMV solenoid	AK-3
2SW	DT	2	2nd clutch ECMV (Fill switch)	AJ-3
3SOL	DT	2	3rd clutch ECMV solenoid	AI-3
3SW	DT	2	3rd clutch ECMV (Fill switch)	AI-2
A/C	DT	2	A/C air compressor	AD-9
AC1	MIC	17	Air conditioner unit	R-7
AC2	AMP	16	Air conditioner controller	S-7
AC3	AMP	12	Air conditioner controller	S-7
ACC	YAZAKI	2	Accessory socket [Cab specification]	E-6
ACF	DT	3	Check connector (KOMTRAX)	AA-3
ACG	DT	2	Diode (A/C compressor)	AF-5
ACM	DT	3	Check connector (KOMTRAX)	AA-3
AL/B	Terminal	1	Alternator terminal B	AH-4
AL/E	Terminal	1	Alternator terminal E	AH-4
AL/R	Terminal	1	Alternator terminal R	AH-4
ASA	DT	2	Intermediate connector (Air suspension seat)	V-9
ASD	KES1	4	Auto shift-down switch	Q-7
BKA	Relay	5	Backup alarm relay	Z-2
BRK	DT	3	Brake pedal	U-1
BUZ	KES1	3	Buzzer cancel switch	R-8
C	Terminal	1	Battery relay power supply outlet	Z-5
C2	FRAMATOME	2	Engine oil pressure switch	AG-6
C4	SUMITOMO	4	Boost pressure, air intake manifold temperature sensor	AC-8
C5	PACKARD	2	Engine coolant temperature sensor	AC-8
C8	BOSCH	3	Common rail pressure sensor	AG-8
C9	DT	4	Intermediate connector (Injector #1, #2)	AC-8
C10	DT	4	Intermediate connector (Injector #3, #4)	AG-8
C11	DT	4	Intermediate connector (Injector #5, #6)	AF-9
C12	DT	3	Tool port (CAN)	AC-6
C13	FRAMATOME	3	Backup sensor (Camshaft)	AC-6
C15	FRAMATOME	3	Ne sensor (Crank)	AC-5
C17	BOSCH	2	Supply pump	AG-7
C28	DT	2	Intermediate connector (Water-in-fuel sensor)	AF-6
C29	FRAMATOME	3	Ambient pressure sensor	AC-7
CA1	DT	3	CAN terminating resistor	AA-1
CA2	DT	3	CAN terminating resistor	S-7
CAN	DT-A	12	Intermediate connector (KOMTRAX)	AA-3
CB1	One-pin connector	2	Circuit breaker (Starting switch)	P-7
CB2	One-pin connector	2	Circuit breaker (Air conditioner)	Q-6
CE01	DRC26	60	Engine controller	AE-5
CE02	DRC26	50	Engine controller	AE-5
CE03	DTP	4	Engine controller	AE-5
CFL	DT	2	Left front lamp [ROPS Canopy specification] (If additional work lamp is equipped)	—
CFR	DT	2	Right front lamp [ROPS Canopy specification] (If additional work lamp is equipped)	—
CIG	YAZAKI	2	Cigarette lighter	E-6
CNL	DT	3	Intermediate connector [ROPS canopy specification] (If additional work lamp is equipped)	—
CNR	Relay	6	Lamp relay [ROPS canopy specification] (If additional work lamp is equipped)	—
CRL	DT	2	Left rear lamp [ROPS canopy specification] (If additional work lamp is equipped)	—
CRR	DT	2	Right rear lamp [ROPS Canopy specification] (If additional work lamp is equipped)	—
CUR	KES1	3	Information switch	R-7
DCL	DT	3	Decelerator pedal	R-5
DIAL	DT	3	Fuel control dial potentiometer	Y-8
E21	DT-A	12	Intermediate connector (Engine controller)	G-1, AH-2
E22	DT	6	Intermediate connector (Engine controller)	F-1, AH-2
E23	DTP	4	Intermediate connector (Engine controller)	D-2, AH-3
FAC	DT	2	Fan pump TVC solenoid	AJ-8
FAM	KES1	3	Fan reverse mode switch	R-7
FAR	DT	2	Fan reverse solenoid	D-3
FCF	DT	6	Intermediate connector [ROPS canopy specification] (If equipped)	—
FCM	DT	6	Intermediate connector [ROPS canopy specification] (If equipped)	—
FFC	DT	6	Intermediate connector (Fender)	M-2
FL	DT	2	Front additional light (Left) [Cab specification]	I-9
FL1	L	2	Fusible link [Cab specification]	Z-3
FL2	Terminal	2	Fusible link	Z-4
FR	DT	2	Front additional light (Right) [Cab specification]	H-8
FS1	—	—	Fuse box	Z-4
FS2	—	—	Fuse box	Z-4
FSOL	DT	2	Forward clutch ECMV solenoid	AK-2
FSW	DT	2	Forward clutch ECMV (Fill switch)	AK-2
FWL	KES1	4	Headlamp switch	R-7
G01	DRC26	40	KOMTRAX controller	AB-1
GND	DT	2	Diode (Heater relay)	AF-9
GND01	Terminal	1	Ground (Floor)	X-1
GND03	Terminal	1	Ground (Fender)	L-1
GND04	Terminal	1	Ground (Floor)	U-1
GND1	Terminal	1	Ground [Cab specification]	C-8
GND1	Terminal	1	Ground [Engine]	AF-6
GND2	Terminal	1	Ground [Cab specification]	C-9
GND2	Terminal	1	Ground (Engine)	AE-9
GND3	Terminal	1	Ground [Cab specification]	D-7
GND3	Terminal	1	Ground (Engine)	AH-2
GND4	Terminal	1	Ground [Cab specification]	K-9
GND4	Terminal	1	Ground (Engine)	AC-7
H	Terminal	1	Battery relay power supply inlet	Z-4
HSA	DT	2	HSS-EPC solenoid (Left swing)	AK-9
HSB	DT	2	HSS-EPC solenoid (Right swing)	AK-8
HSP	DT	2	TVC solenoid for HSS & work equipment pump	AI-7
HT/A	Terminal	1	Heater relay	AG-7
HT/B	Terminal	1	Heater relay	AF-9
HT/C	Terminal	1	Heater relay	AD-9
KEY	DT	6	Intermediate connector [ROPS canopy specification] (If starting switch is equipped)	R-9
KOM2	GT5	1	KOMTRAX controller	AB-1
KOM3	BNC	1	KOMTRAX controller	AA-1
KOM4	ML	1	KOMTRAX antenna	J-9
M26	M	6	Air conditioner controller	R-6
MAM	KES1	4	Manual mode switch	Q-7
NSF	Relay	5	Neutral safety relay	X-1
NSW	DT	3	Travel lock switch	Z-8
PL1	HD-24	23	Intermediate connector (Power train)	V-1, AL-3
PL2	HD-24	31	Intermediate connector (Power train)	V-1, AL-3
PSL	DT	2	PPC lock solenoid	T-9
PSW	DT	2	PPC lock solenoid switch	T-9
PT1	DT	3	Slope sensor	T-8
R1	Relay (YAZAKI)	4	Air conditioner relay	R-4
R2	Relay (YAZAKI)	4	Air conditioner relay	R-4
R3	Relay (YAZAKI)	4	Air conditioner relay	R-4
R4	Relay (YAZAKI)	4	Air conditioner relay	R-3
RH	Terminal	1	Electrical intake air heater (Engine)	AG-7
RHR	Relay	5	Pre-heater relay	Y-1
RL	DT	2	Rear additional light (Left) [Cab specification]	L-8
RR	DT	2	Rear additional light (Right) [Cab specification]	J-9
RSD	DT	2	Diode (Battery relay)	W-1
RSOL	DT	2	Reverse clutch ECMV solenoid	AJ-3
RSW	DT	2	Reverse clutch ECMV (Fill switch)	AJ-3
RWL	KES1	4	Rear lamp switch	R-7
S03	AMP070	20	Monitor panel	Q-9
S04	AMP070	12	Monitor panel	Q-9
S13	DT-A	12	Intermediate connector (Dashboard)	S-1
S24	Terminal	4	Service switch	P-7
SDS	DT	2	Hydraulic oil temperature sensor	AI-4
SFTD	—	3	Shift-down switch	X-9
SFTU	—	3	Shift-up switch	X-9
SRV	DT-A	12	Intermediate connector (Dashboard)	R-5
SR/B	Terminal	1	Starting motor safety relay terminal B	AG-1
SR/C	Terminal	1	Starting motor safety relay terminal C	AG-1
ST	DT	2	Intermediate connector (Starting motor)	AH-3
ST-B	Terminal	1	Starting motor terminal B	AG-1
ST/C	Terminal	1	Starting motor terminal C	AF-1
ST1	DRC26	24	Steering and transmission controller	Z-2
ST2	DRC26	40	Steering and transmission controller	Z-2
ST3	DRC26	40	Steering and transmission controller	Z-2
SW	Terminal	1	Battery relay terminal BR	Z-5
SWG	Terminal	1	Battery relay ground	Z-5
T1F	DT	2	Check connector (KOMTRAX)	AB-3
T1M	DT	2	Check connector (KOMTRAX)	AB-3
TL1	HD-24	12	Intermediate connector (Console)	Z-8
TL2	DT-B	8	Travel lever	Y-8
TL3	DT	6	Intermediate connector (Shift switch)	Y-9
TL4	DT	6	Intermediate connector (Console)	Z-8
TM1	DT	2	Transmission output shaft speed sensor	AM-8
TMV	HD-24	23	Intermediate connector (Transmission ECMV)	AI-3
WIF	DT	2	Water-in-fuel sensor	AF-9
WSW	DT	6	Intermediate connector (Washer motor) [Cab specification]	F-5

★ The color symbols of the bodies of the heavy duty wire connectors (DT-8 poles, 12 poles) are as follows.
DT-A = Gray, DT-B = Black, DT-C = Green, DT-D = Brown









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