SEN05214-07

# Shop Manual

BULLDOZER

# D375A-6R

SERIAL NUMBERS 65001 and up

KOMATSU®

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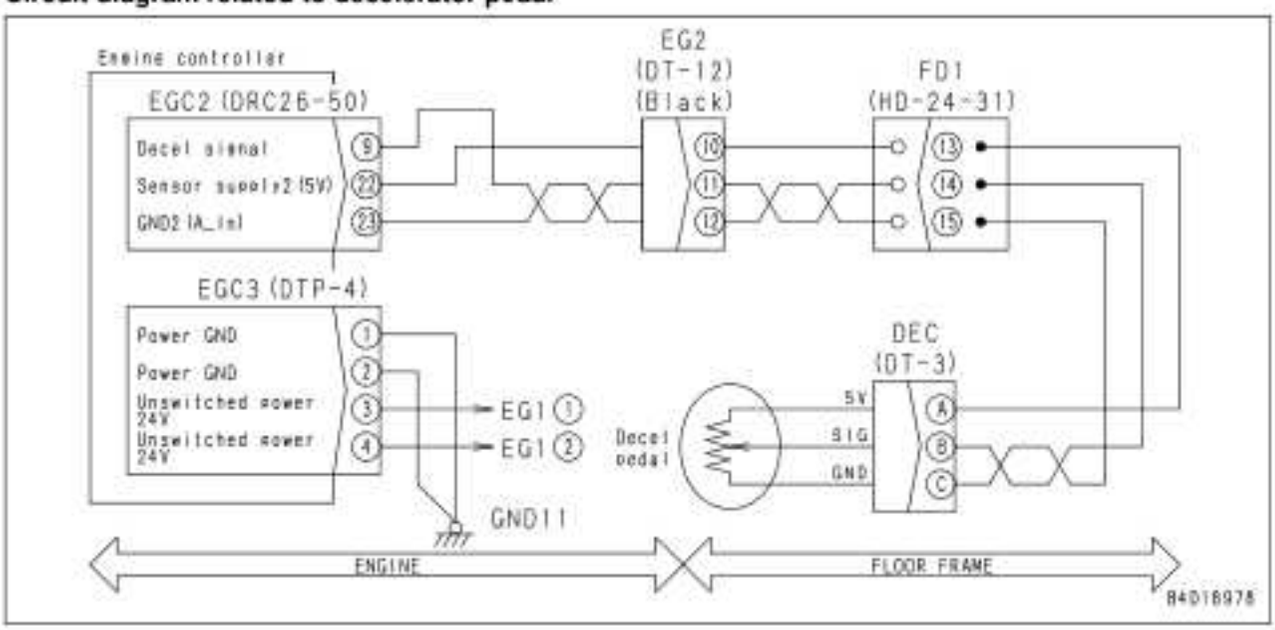

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# Failure code [CA2185] Throt Sens Sup Volt High Error

| Action code | Failure code | Failure | Throt Sens Sup Volt High Error (Engine controller system) |
|---|---|---|---|
| **E03** | **CA2185** | | |
| Detail of failure | • High voltage (approx. 5.25 V) was detected in throttle sensor power supply circuit. | | |
| Action of controller | • Operate the decelerator pedal at a fixed value. | | |
| Problem on machine | • Engine speed cannot be controlled with decelerator pedal. | | |
| Related information | • Method of reproducing failure code: Turn starting switch to ON position. | | |

| | Cause | Procedure, measuring location, criteria and remarks | | |
|---|---|---|---|---|
| 1 | Defective wiring harness connector | See descriptions of wiring harness and connectors in "c: Electrical equipment" in "Checks before troubleshooting" of "General information on troubleshooting", and check them directly. | | |
| 2 | Defective throttle sensor (decelerator pedal) | 1. Turn starting switch to OFF position.<br>2. Disconnect connector DEC and turn starting switch to ON position. | | |
| | | If this failure code is not displayed, throttle sensor is defective.<br>★ Other failure codes are displayed, too. This is because the connector is disconnected. Ignore failure codes other than [**CA2185**]. | | |
| 3 | Short circuit in wiring harness | 1. Turn starting switch to OFF position.<br>2. Disconnect connectors EGC2, EGC3 and DEC, and connect T-adapters to female side of EGC2 and EGC3. | | |
| | | Between EGC2 (female) (22) and each pin other than EGC2 (female) (22) | Resistance | Min. 1 MΩ |
| | | Between EGC2 (female) (22) and EGC3 (female) (3) | Resistance | Min. 1 MΩ |
| 4 | Hot short circuit in wiring harness (Contact with 24 V circuit) | 1. Turn starting switch to OFF position.<br>2. Disconnect connector DEC and connect T-adapter to female side.<br>3. Turn starting switch to ON position. | | |
| | | Between DEC (female) (A) and ground | Voltage | 4.75 – 5.25 V |
| 5 | Defective engine controller | 1. Turn starting switch to OFF position.<br>2. Disconnect connector EGC2 and connect T-adapter to male side.<br>3. Turn starting switch to ON position. | | |
| | | Between EGC2 (male) (22) and (23) | Voltage | 4.75 – 5.25 V |

**Circuit diagram related to decelerator pedal**





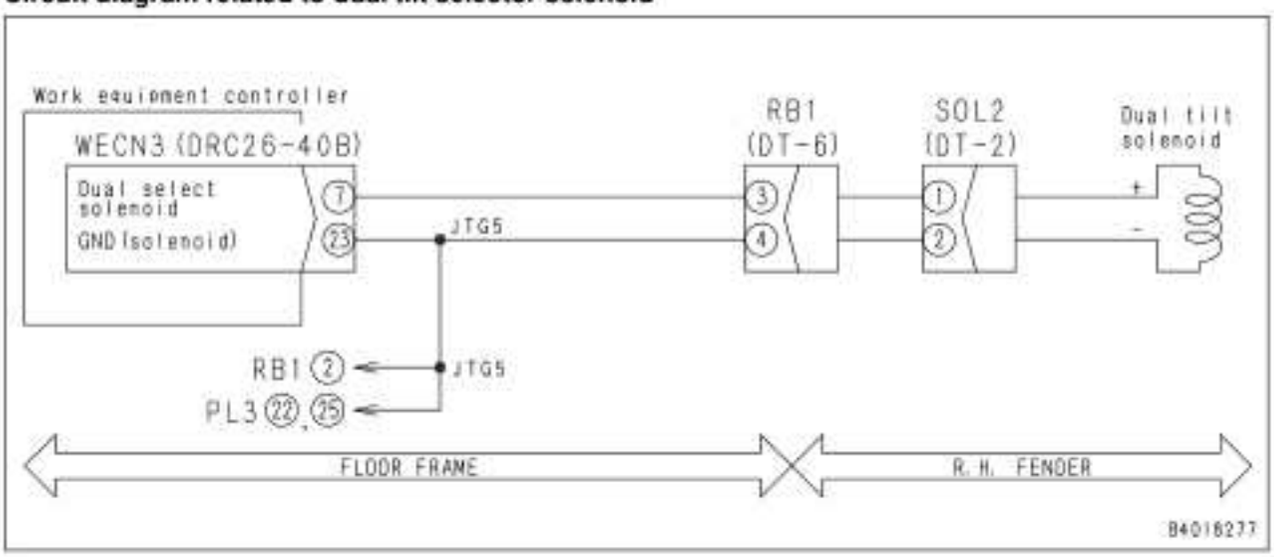

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# Failure code [DW59KA] Blade dual selector SOL disconnection

| Action code | Failure code | Failure | Dual tilt selector solenoid: Disconnection (Work equipment controller system) |
|---|---|---|---|
| E01 | DW59KA | | |
| Detail of failure | • Any current does not flow when power is output to the dual tilt selector solenoid circuit. | | |
| Action of controller | • Stops output to dual tilt selector solenoid circuit. | | |
| Problem on machine | • Dual tilt cannot be selector. | | |
| Related information | • Method of reproducing failure code:Turn starting switch to ON position and operate dual tilt selector switch. | | |

| | Cause | Procedure, measuring location, criteria and remarks | | |
|---|---|---|---|---|
| 1 | Defective dual tilt selector solenoid (Internal disconnection) | 1. Turn starting switch to OFF position.<br>2. Disconnect connector SOL2 and connect T-adapter to male side. | | |
| | | SOL2 (male) (1) and (2) | Resistance | 10 – 40 Ω |
| 2 | Disconnection or short circuit in wiring harness | 1. Turn starting switch to OFF position.<br>2. Disconnect connector WECN3 and connect T-adapter to female side.<br>★ If resistance is above 1 MΩ, wiring harness has disconnection. If resistance is below 1 Ω, wiring harness has short circuit. | | |
| | | Between WECN3 (female) (7) and (23) | Resistance | 10 – 40 Ω |
| 3 | Disconnection in wiring harness (Open circuit in wiring or defective contact in connector) | ★ If cause 2 is not the cause for the failure, this check is not required.<br>1. Turn starting switch to OFF position.<br>2. Disconnect connector WECN3 and SOL2, and connect T-adapters to female side of them. | | |
| | | Between WECN3 (female) (7) and SOL2 (female) (1) | Resistance | Max. 1 Ω |
| | | Between WECN3 (female) (23) and SOL2 (female) (2) | Resistance | Max. 1 Ω |
| 4 | Defective work equipment controller | If cause is not found by the above checks, work equipmet controller may be defective. (Since failure is in it, troubleshooting cannot be performed.) | | |

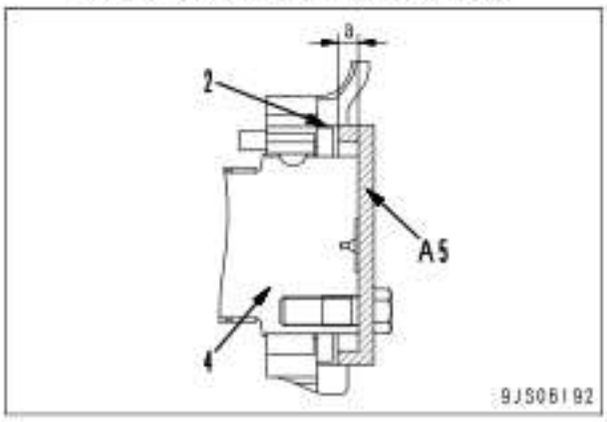
**Circuit diagram related to dual tilt selector solenoid**



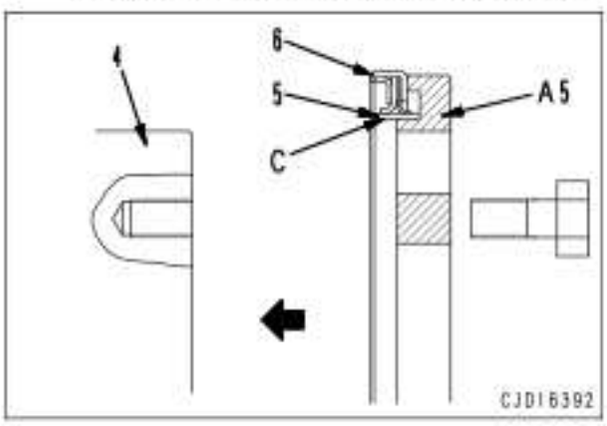



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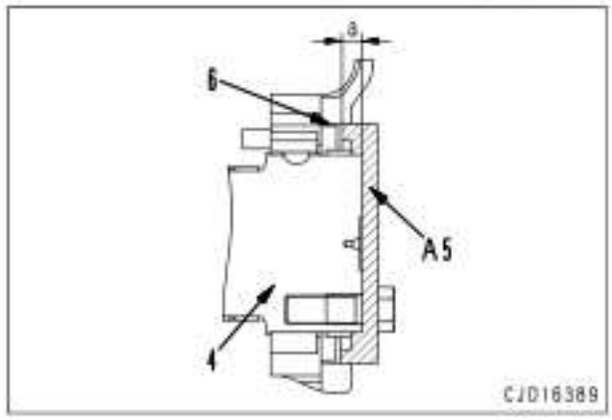
4) Tighten the bolts evenly to press fit rear seal (2) until the end face of tool **A5** touches the end face of crankshaft (4).
   ★ Oil seal press fitting dimension (when measured from the crankshaft end face) (a): **20 mm**
★ After press fitting the rear seal, remove the red sealant layer from its periphery.




- **Installation procedure for sleeved seal**
  ★ When installing the rear seal, do not apply oil, grease, etc. to the crankshaft, the inside cylindrical surface (C) of the sleeve, or the seal lip surface.
  1) Set the sleeve and rear seal assembly (6) to tool **A5** (for press fitting the sleeved seal).
     **Inside surface (C) of sleeve: Liquid gasket (LG-7)**
  2) Place sleeve (5) of the rear seal to the end face of crankshaft (4) and tighten the five bolts evenly to press fit sleeve and rear seal assembly (6) until the end face of tool **A5** touches the end face of the crankshaft (4).




  3) Remove tool **A5** (for press fitting the sleeved seal) and install tool **A5** (for press fitting the standard seal).
  4) Tighten the five bolts evenly to press fit sleeve and rear seal assembly (6) until the end face of tool **A5** (for press fitting the standard seal) touches the end face of crankshaft (4).
     ★ Use the bolts (stem length of 45 mm) to tighten tool **A5** (for press fitting the standard seal) first, and then tighten tool **A5** (for press fitting standard seal) with the bolts (stem length of 35 mm).
     ★ Driving depth of rear seal (a) (from crankshaft end face): 20 mm
     ★ After press fitting the rear seal, remove the red sealant layer from its periphery.




- Carry out the subsequent installation in the reverse order to removal.

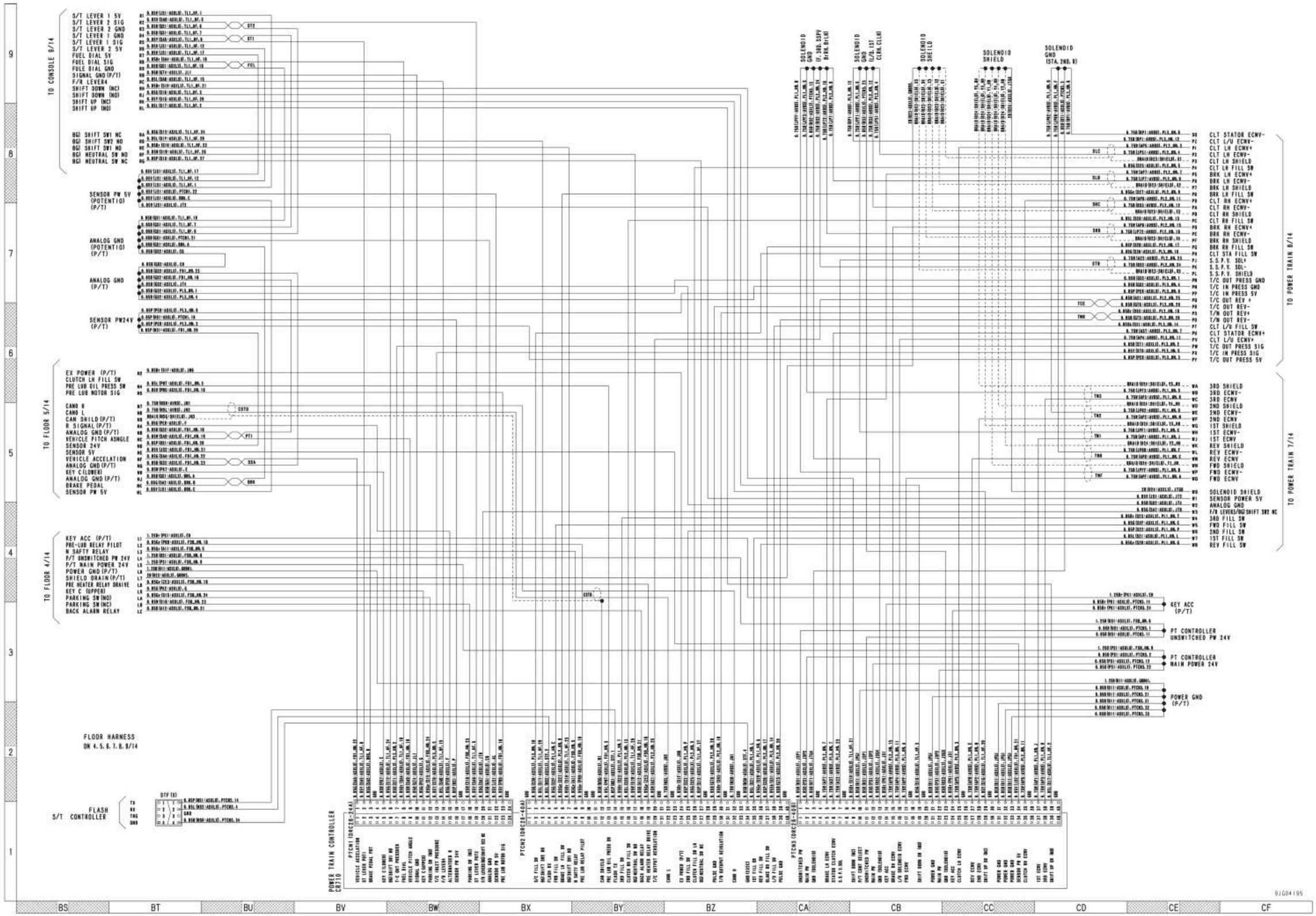
[*1]
**Flywheel assembly**
★ If there are 5 punch marks on the head of a bolt, do not reuse that bolt but replace it.
★ Fix the flywheel by using the bolt holes in the flywheel and flywheel housing so that the flywheel does not turn.
★ Tighten the mounting bolts in the order shown in the figure.
**Flywheel assembly mounting bolt: Engine oil (EO30)**



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# Electrical circuit diagram (6/14)

★ This figure covers the equipment and devices that are unavailable as optional items in some areas.






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