SEN02854-11

# Shop Manual

BULLDOZER

# D155A-6

SERIAL NUMBERS 85001 and up

KOMATSU®

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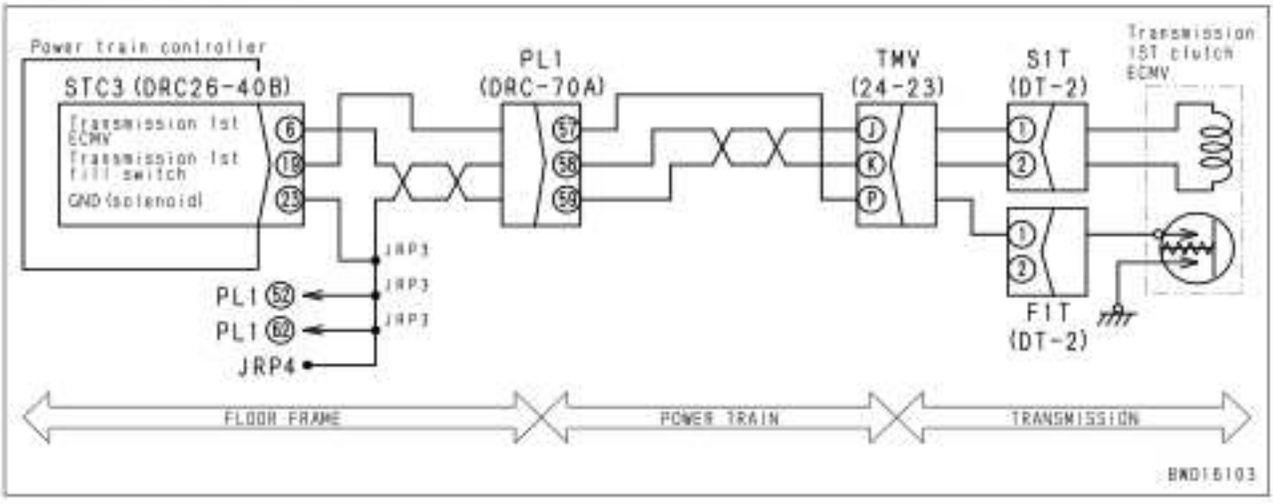
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# Failure code [15SELH] Speed 1st clutch: Fill low

| Action code | Failure code | Trouble | Speed 1st clutch: Fill low (Power train controller system) |
|---|---|---|---|
| **E03** | **15SELH** | | |
| Contents of trouble | • When output to transmission 1st clutch ECMV solenoid circuit is turned ON, fill switch signal is turned OFF. | | |
| Action of controller | • Limits operation of engine and transmission. | | |
| Problem that appears on machine | • Auto-shift-down function does not operate.<br>• Once machine is stopped, engine speed is limited to medium (half).<br>• Once machine is stopped, travel is limited to F2 and R2. | | |
| Related information | • State of 1st clutch ECMV fill switch signal can be checked with monitoring function. (Code: 40906 T/M Fill Sw Input 1)<br>• Method of reproducing failure code: Start engine + Set transmission in F1 or R1 position (in manual gearshift mode). | | |

| | Cause | | Standard value in normal state/Remarks on troubleshooting | | | |
|---|---|---|---|---|---|---|
| Possible causes and standard value in normal state | 1 | Defective 1st clutch ECMV fill switch (Internal disconnection) | ★ Prepare with starting switch OFF, then start engine, select manual gearshift mode, and carry out troubleshooting. | | | |
| | | | F1T (male) | PCCS lever (Travel gear speed) | Resistance | |
| | | | Between (1) – chassis ground | Other than F1, N, or R1 | Min. 1 MΩ | |
| | | | | F1, R1 | Max. 1 Ω | |
| | 2 | Disconnection in wiring harness (Disconnection in wiring or defective contact in connector) | ★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON. | | | |
| | | | Wiring harness between STC3 (female) (19) – F1T (female) (1) | | Resistance | Max. 1 Ω |
| | 3 | Defective power train controller | ★ Prepare with starting switch OFF, then start engine, select manual gearshift mode, and carry out troubleshooting. | | | |
| | | | STC3 | PCCS lever (Travel gear speed) | Voltage | |
| | | | Between (19) – chassis ground | Other than F1, N, or R1 | 5 – 11 V | |
| | | | | F1, R1 | Max. 1 V | |
| | 4 | Defective hydraulic system | If causes 1 – 3 are not detected in electrical system, hydraulic system may be defective. Carry out related troubleshooting (H mode). | | | |

**Circuit diagram related**





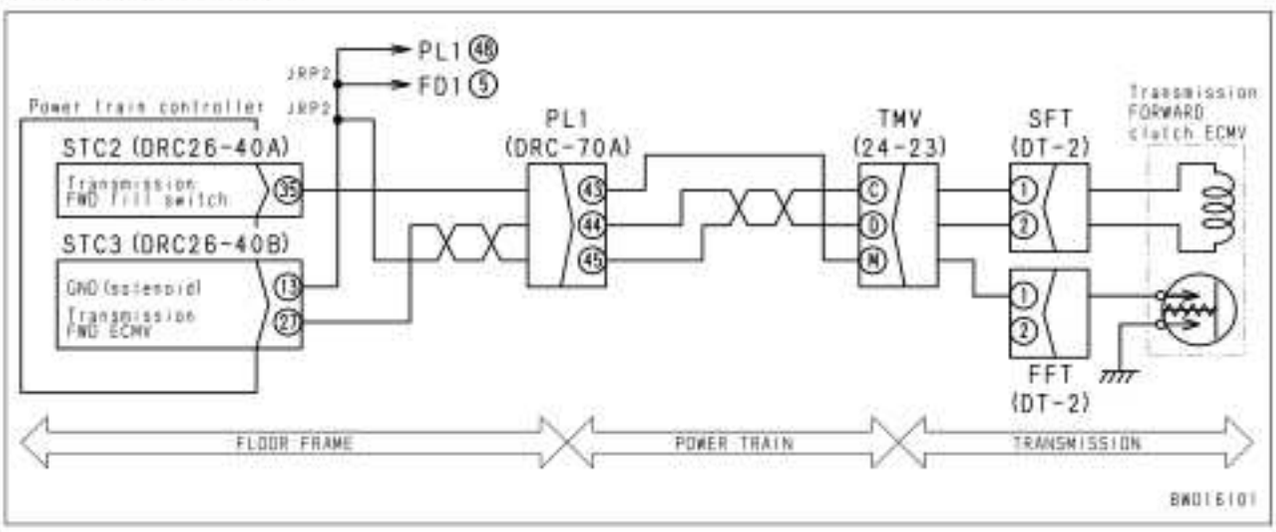

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# Failure code [DXH8KB] F clutch ECMV: Short circuit

| Action code | Failure code | Trouble | F clutch ECMV: Short circuit (Power train controller system) |
|---|---|---|---|
| E03 | DXH8KB | | |
| Contents of trouble | • When signal was output to transmission F clutch ECMV solenoid circuit, abnormal current flowed. | | |
| Action of controller | • Turns signal to transmission F clutch ECMV solenoid circuit OFF.<br>• Limits operation of engine and transmission. | | |
| Problem that appears on machine | • Once machine is stopped, engine speed is limited to medium (half).<br>• Once machine is stopped, travel is limited to R1. | | |
| Related information | • Output to F clutch ECMV solenoid can be checked with monitoring function. (Code: 31622 T/M Clutch F ECMV (F/B))<br>• Method of reproducing failure code: Start engine + Set gear to F (Forward). | | |

| | Cause | | Standard value in normal state/Remarks on troubleshooting | | |
|---|---|---|---|---|---|
| Possible causes and standard value in normal state | 1 | Defective F clutch ECMV solenoid (Internal short circuit) | ★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON. | | |
| | | | SFT (male) | Resistance | |
| | | | Between (1) – (2) | 3.5 – 12.5 Ω | |
| | | | Between (1) – chassis ground | Min. 1 MΩ | |
| | 2 | Ground fault in wiring harness (Contact with GND circuit) | ★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON. | | |
| | | | Wiring harness between STC3 (female) (27) – SFT (female) (1) and chassis ground | Resistance | Min. 1 MΩ |
| | 3 | Short circuit in wiring harness (with another wiring harness) | ★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON. | | |
| | | | Wiring harness between STC3 (female) (27) – SFT (female) (1) and between STC3 (female) (13) – SFT (female) (2) | Resistance | Min. 1 MΩ |
| | 4 | Defective power train controller | If causes 1 – 3 are not detected, power train controller may be defective. (Since trouble is in system, troubleshooting cannot be carried out.) | | |

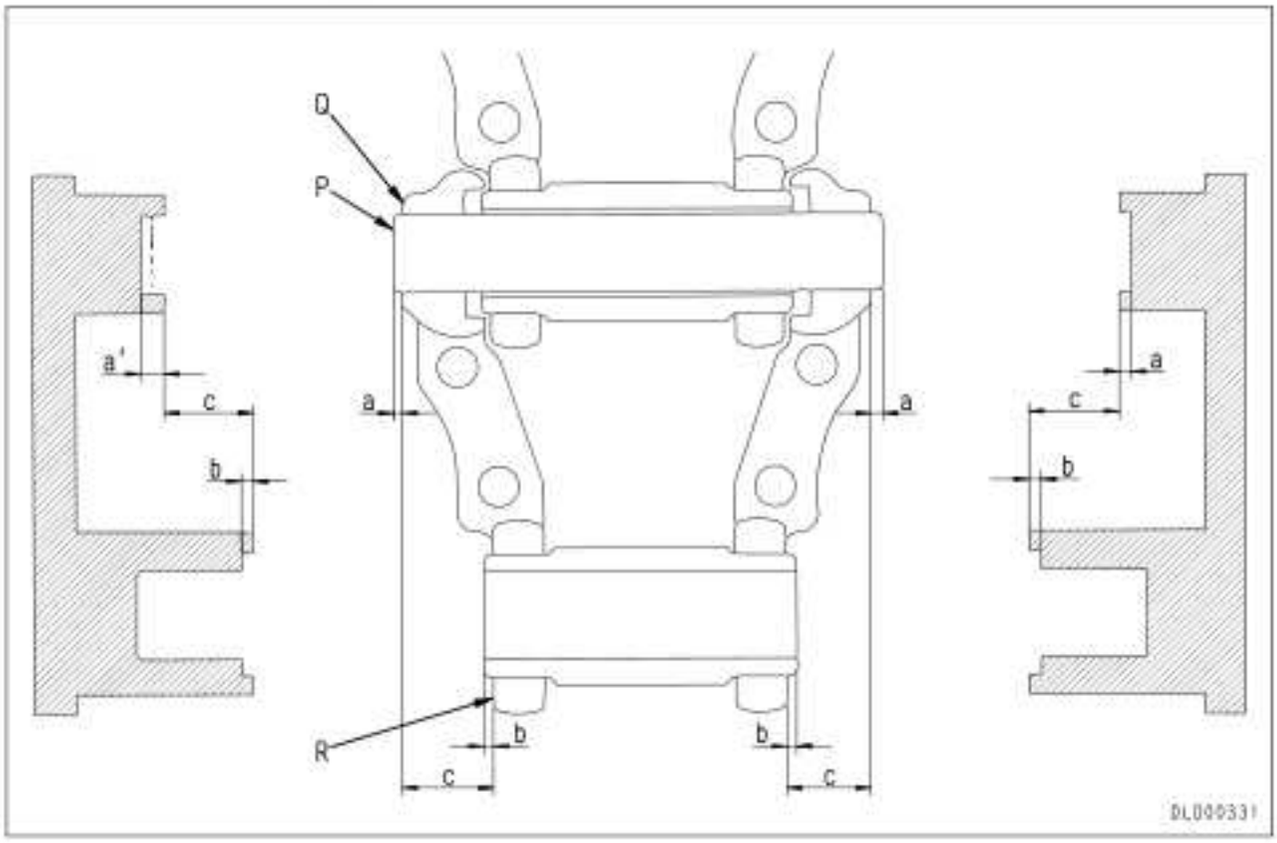
**Circuit diagram related**






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### Dimensions table of fitting jig of link press




#### Adjustment

Adjust the dimensions of the press fitting jig of the link press to keep the projection of the pin and bushing constant and keep the installed dimensions of the seal within the standard range.

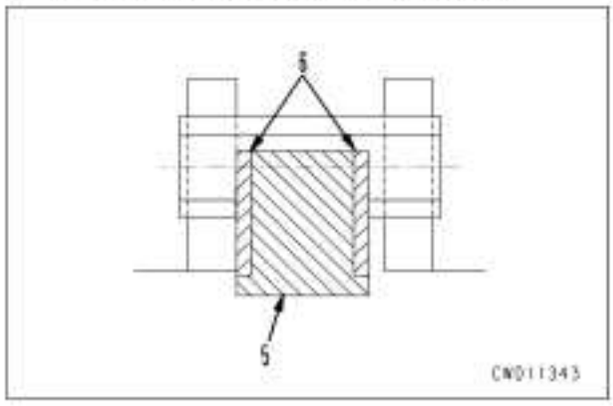
★ If the pin end (part P) or the sides of the link (parts Q and R) are worn, add the dimensions of the worn parts when adjusting the standard dimensions so that the projections of the pins and bushings on the right and left sides will be even.

Unit: mm

| Dimensions of jig | | |
|---|---|---|
| a | b | c |
| 4.5 | 3.25 | 50.6 |

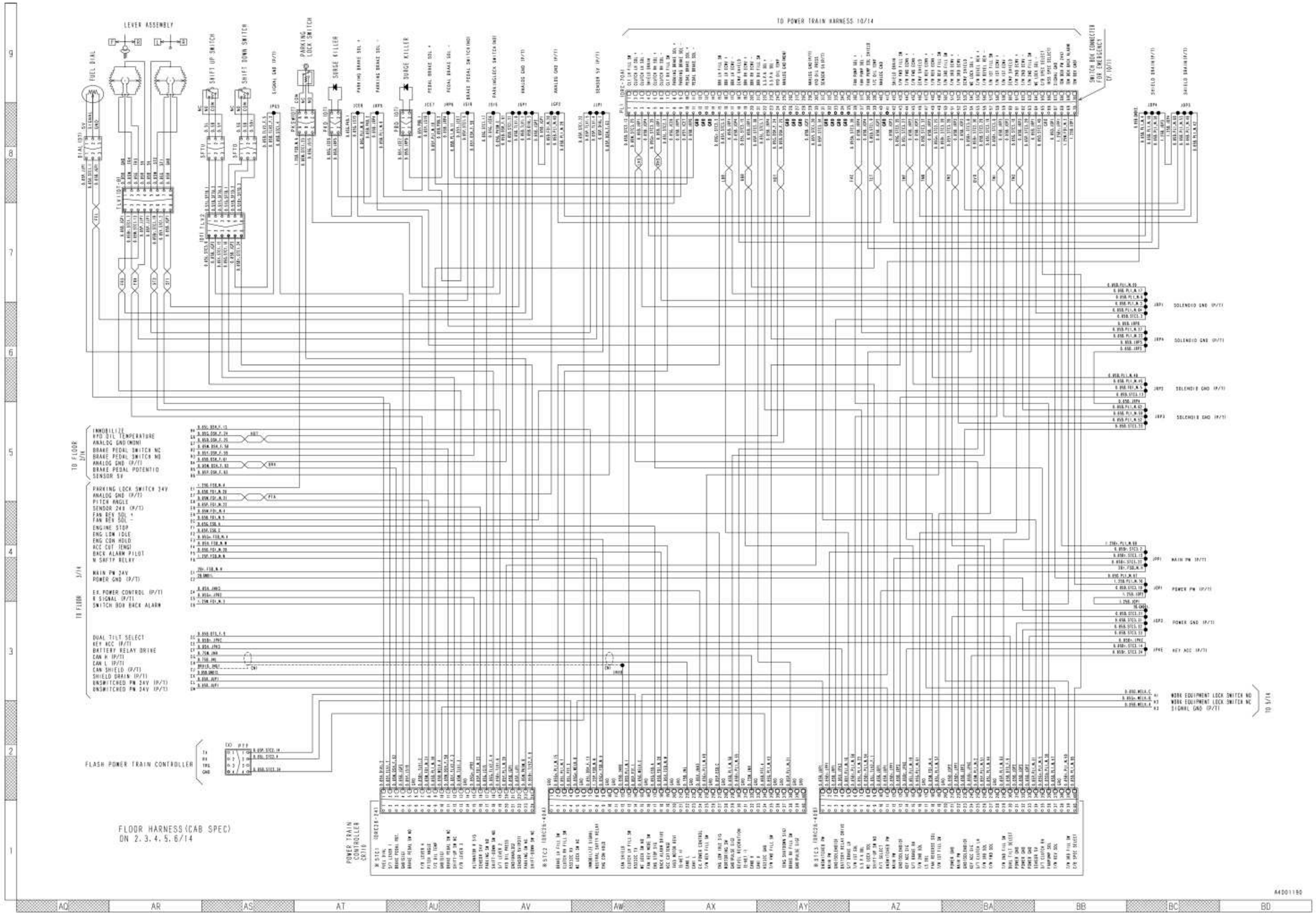
#### Precaution

1. The link receiving faces of jaw (5) must be vertical.
2. Wear plate (6) should be replaceable.






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