SEN06505-08

# Shop Manual

BULLDOZER

# D65EX -18
# D65PX -18
# D65WX -18

SERIAL NUMBERS

D65EX- 90001
D65PX- 90001 and up
D65WX- 90001

KOMATSU®



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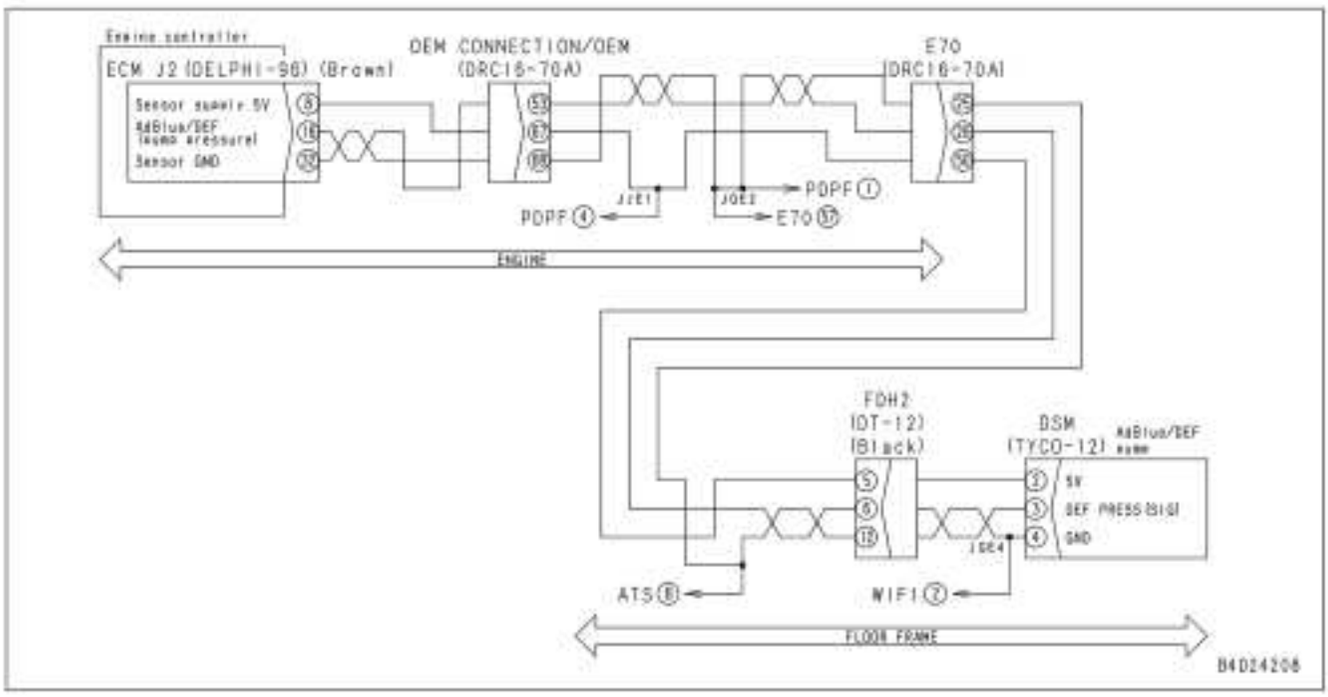
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| No. | Cause | Procedure, measuring location, criteria and remarks | | |
|---|---|---|---|---|
| 6 | Hot short circuit in wiring harness | 1. Turn starting switch to OFF position.<br>2. Disconnect connector DSM, and connect T-adapter to female side or insert T-adapter to connector ECM J2.<br>3. Turn starting switch to ON position. | | |
| | | Voltage | Between DSM (female) (3) and (4), or between ECM J2 (16) and (32) | Max. 1 V |
| 7 | Defective engine controller | If no failure is found by above checks, engine controller is defective. (Since this is an internal defect, troubleshooting cannot be performed.) | | |

## Circuit diagram related to AdBlue/DEF pump pressure sensor






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# FAILURE CODE [CA4461]

| Action level | Failure code | Failure | AdBlue/DEF LineHeater Relay 2 Voltage Low Error (Engine controller system) |
|---|---|---|---|
| L01 | CA4461 | | |
| Detail of failure | A low voltage error occurs in AdBlue/DEF line heater relay 2 circuit. | | |
| Action of controller | Advances to Inducement strategy. | | |
| Phenomenon on machine | • AdBlue/DEF line stops thawing.<br>• NOx emission increases because AdBlue/DEF injection is disabled at low temperature.<br>• Engine output lowers according to inducement strategy. | | |
| Related information | • AdBlue/DEF line heater relay 2 is driven at AdBlue/DEF supply system thawing/thermal insulation or "AdBlue/DEF Line Heater Relay 2 Test".<br>• AdBlue/DEF line heater relay 2 is built in the AdBlue/DEF heater relay.<br>• Troubleshooting of this failure code covers circuits from engine controller through AdBlue/DEF heater relay to power supply.<br>• This failure code is detected only when the AdBlue/DEF line heater relay 2 is turned OFF.<br>• This failure code is displayed if connector UHR1 is disconnected when AdBlue/DEF line heater 2 is turned OFF.<br>• After repairing, check if the failure code is cleared by the following procedure.<br>Procedure: Turn starting switch to ON position. | | |

| No. | Cause | Procedure, measuring location, criteria and remarks | | |
|---|---|---|---|---|
| 1 | Defective wiring harness connector | 1. See descriptions of wiring harness and connectors in "c: Electrical equipment" in "CHECKS BEFORE TROUBLESHOOTING" of "RELATED INFORMATION ON TROUBLESHOOTING", and check it.<br>2. Turn starting switch to ON position. | | |
| | | If this failure code is cleared, wiring harness connector is defective. | | |
| 2 | Defective fuse No. 7 in fuse box FS21 | Check if fuse No. 7 in fuse box FS21 is blown.<br>**REMARK**<br>If blown, perform troubleshooting for ground fault in wiring harness. | | |
| 3 | Open circuit in wiring harness (sensor relay power supply side) | 1. Turn starting switch to OFF position.<br>2. Turn the battery disconnect switch to OFF position.<br>3. Disconnect connector UHR2, and connect T-adapter to female side.<br>4. Turn the battery disconnect switch ON.<br>5. Turn starting switch to ON position. | | |
| | | Voltage | Between UHR2 (female) (1) and ground, or between (2) and ground | Min. 22 V |
| 4 | Open circuit in wiring harness (line heater relay drive signal side) | If failure code is still displayed after above checks, this check is not required.<br>1. Turn starting switch to OFF position.<br>2. Turn the battery disconnect switch to OFF position.<br>3. Disconnect connectors ECM J2 and UHR1, and connect T-adapters to each female side. | | |
| | | Resistance | Between ECM J2 (female) (7) and UHR1 (female) (11) | Max. 10 Ω |



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# SPECIFICATIONS OF AIR CONDITIONER

Refrigerant: R134a

Refrigerant quantity(Standard core condenser): : 900±50 g

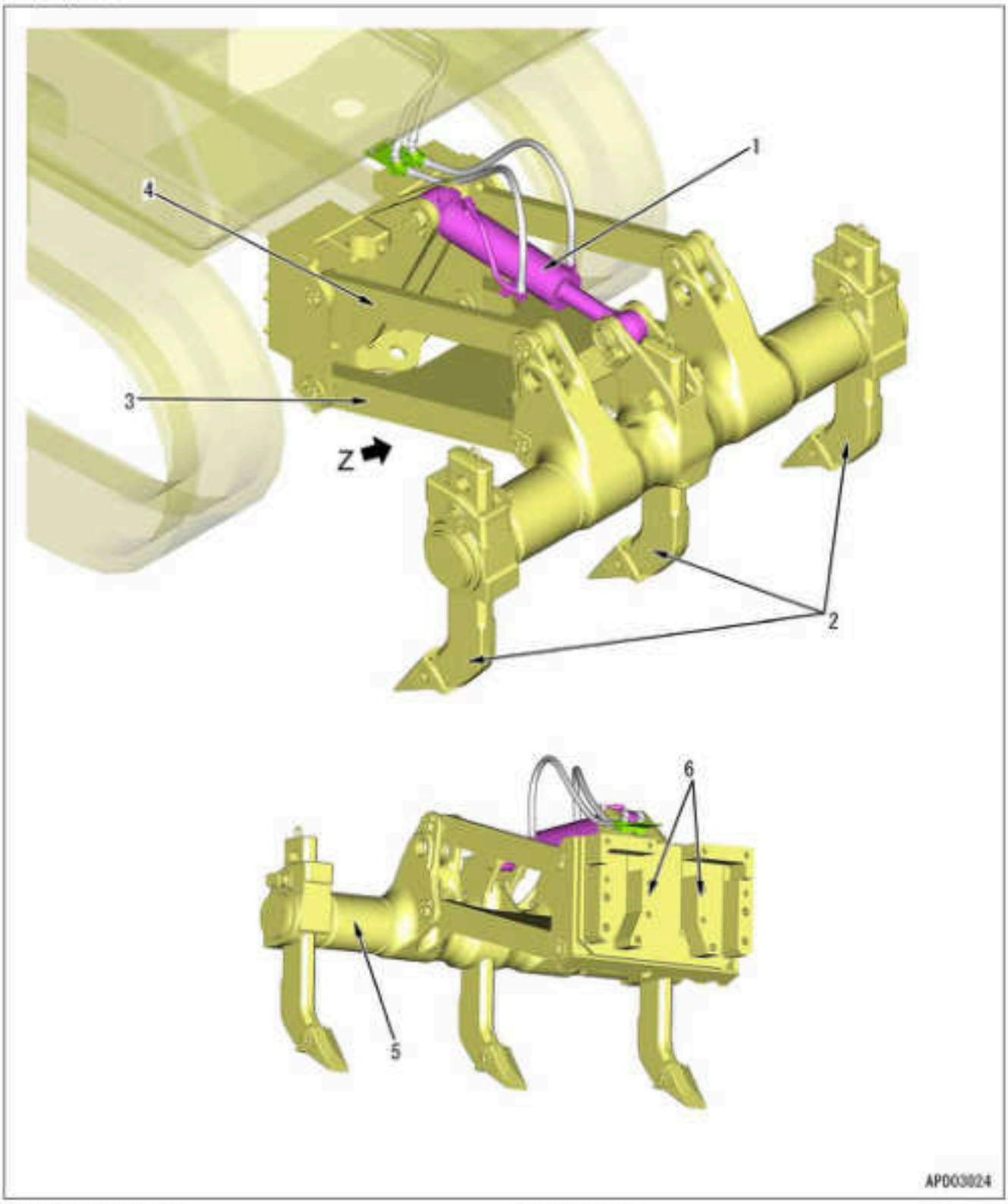
Refrigerant quantity(Wide core condenser): : 1120±50 g



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# STRUCTURE OF FIXED MULTI-SHANK RIPPER

(if equipped)



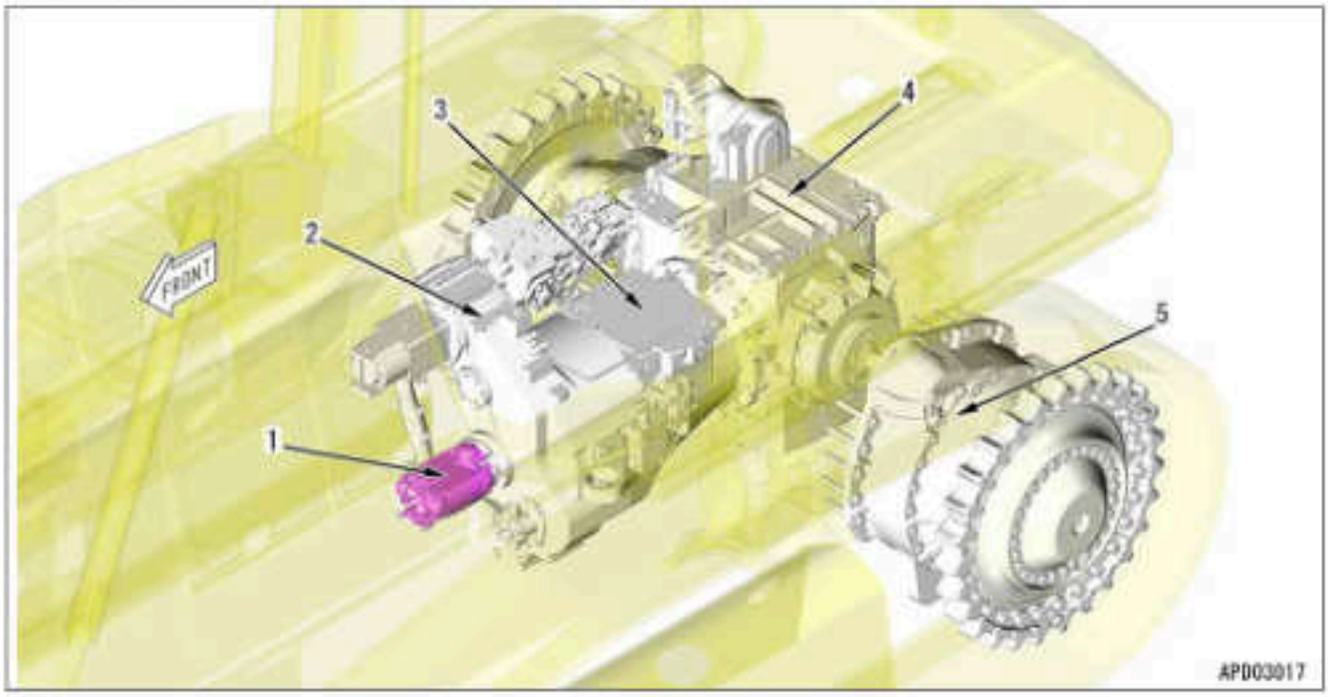

1: Ripper lift cylinder
2: Shank
3: Lower link
4: Upper link
5: Beam
6: Mount bracket



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# POWER TRAIN SYSTEM

## LAYOUT DRAWING OF POWER TRAIN SYSTEM





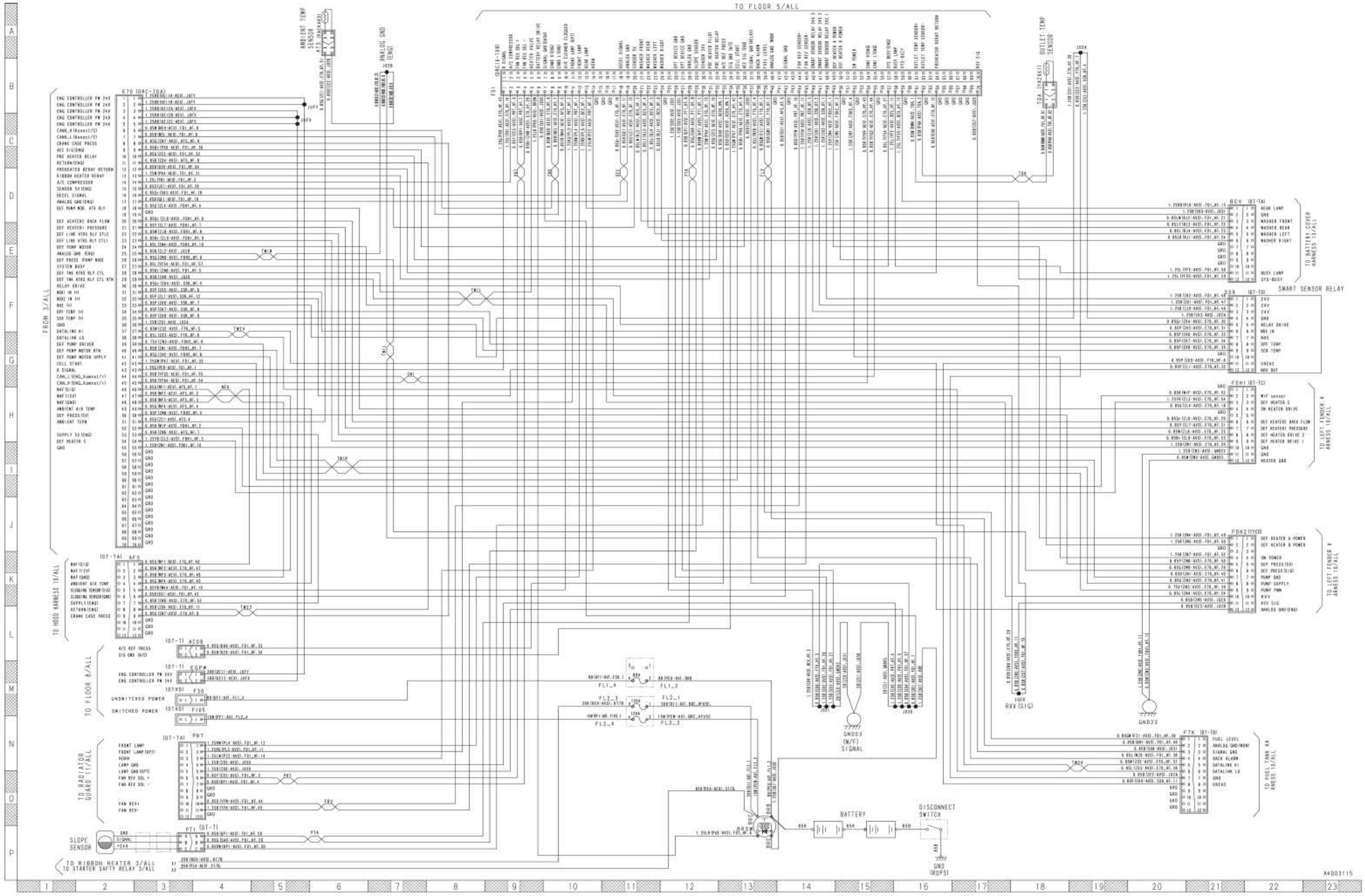

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# ELECTRICAL CIRCUIT DIAGRAM (9/15)

D65EX-18, D65PX-18, D65WX-18

**REMARK**

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






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