SEBM024912

SHOP MANUAL

KOMATSU®

HM350-1

Machine model	Serial number
HM350-1	**1001 and up**

- This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.

- HM350-1 mount the SAA6D140E-3 engine.
  For details of the engine, see the 140-3 Series Engine Shop Manual.

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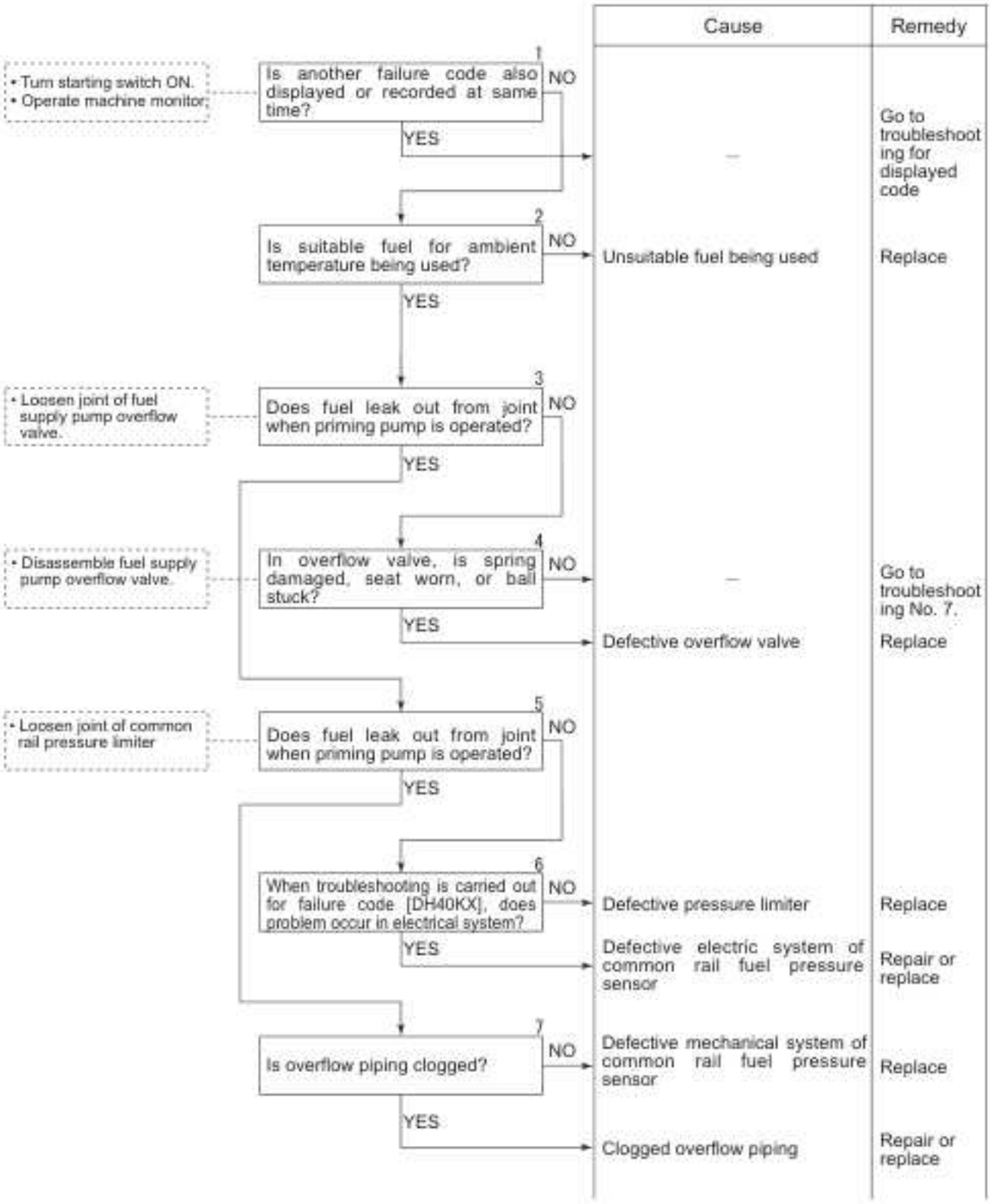
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<table>
<tr><th>System</th><th>Name of component</th><th>Connector No.</th><th>Inspection method</th><th>Judgement table</th><th>Measurement conditions</th></tr>
<tr><td rowspan="8">Others (other than controllers)</td><td>Yellow rotating lamp switch</td><td>BLS (male)</td><td>Measure resistance</td><td>If the condition is as shown in the table below, it is normal<table><tr><th>Pin</th><th>Switch</th><th>Resistance value</th></tr><tr><td rowspan="2">Between (1) and (3)</td><td>Up</td><td>Min. 1 MΩ</td></tr><tr><td>Down</td><td>Max. 1 Ω</td></tr></table></td><td>1) Turn starting switch OFF.
2) Disconnect BLS.</td></tr>
<tr><td>Side lamp switch</td><td>SDE (male)</td><td>Measure resistance</td><td>If the condition is as shown in the table below, it is normal<table><tr><th>Pin</th><th>Switch</th><th>Resistance value</th></tr><tr><td rowspan="2">Between (1) and (3)</td><td>Up</td><td>Min. 1 MΩ</td></tr><tr><td>Down</td><td>Max. 1 Ω</td></tr></table></td><td>1) Turn starting switch OFF.
2) Disconnect SDE.</td></tr>
<tr><td>Emergency steering switch</td><td>ST (terminal)</td><td>Measure resistance</td><td>If the condition is as shown in the table below, it is normal<table><tr><th>Position</th><th>Switch</th><th>Resistance value</th></tr><tr><td rowspan="2">Between ST1 and ST2</td><td>OFF</td><td>Min. 1 MΩ</td></tr><tr><td>ON</td><td>Max. 1 Ω</td></tr></table></td><td>1) Turn starting switch OFF.
2) Disconnect ST1 and ST2.</td></tr>
<tr><td>Parking brake switch</td><td>R33 (male)</td><td>Measure resistance</td><td>If the condition is as shown in the table below, it is normal<table><tr><th>Pin</th><th>Switch</th><th>Resistance value</th></tr><tr><td rowspan="2">Between (1) and (3)</td><td>Up</td><td>Min. 1 MΩ</td></tr><tr><td>Down</td><td>Max. 1 Ω</td></tr></table></td><td>1) Turn starting switch OFF.
2) Disconnect R33.</td></tr>
<tr><td>Front accumulator oil pressure switch</td><td>B21 (male)</td><td>Measure resistance</td><td>If the condition is as shown in the table below, it is normal<table><tr><th>Pin</th><th>Differential lock oil pressure</th><th>Resistance value</th></tr><tr><td rowspan="2">Between (1) and (2)</td><td>Max. 4.9 MPa {Max. 50 kg/cm²}</td><td>Min. 1 MΩ</td></tr><tr><td>Min. 5.9 MPa {Min. 60 kg/cm²}</td><td>Max. 1 Ω</td></tr></table></td><td>1) Turn starting switch OFF.
2) Disconnect B21.</td></tr>
<tr><td>Rear accumulator oil pressure switch</td><td>B20 (male)</td><td>Measure resistance</td><td>If the condition is as shown in the table below, it is normal<table><tr><th>Pin</th><th>Differential lock oil pressure</th><th>Resistance value</th></tr><tr><td rowspan="2">Between (1) and (2)</td><td>Max. 4.9 MPa {Max. 50 kg/cm²}</td><td>Min. 1 MΩ</td></tr><tr><td>Min. 5.9 MPa {Min. 60 kg/cm²}</td><td>Max. 1 Ω</td></tr></table></td><td>1) Turn starting switch OFF.
2) Disconnect B20.</td></tr>
<tr><td>Parking brake solenoid</td><td>B14 (male)</td><td>Measure resistance</td><td>If the condition is as shown in the table below, it is normal<table><tr><td>Between (1) and (2)</td><td>30 – 50 Ω</td></tr><tr><td>Between (1)(2) and ground</td><td>Min. 1 MΩ</td></tr></table></td><td>1) Turn starting switch OFF.
2) Disconnect B14.</td></tr>
<tr><td>Relay (5-pin type)</td><td>– (male)</td><td>Measure resistance</td><td>If the condition is as shown in the table below, it is normal<table><tr><td>Between (1) and (2)</td><td>100 – 500 Ω</td></tr><tr><td>Between (5) and (5)</td><td>Min. 1 MΩ</td></tr><tr><td>Between (3) and (6)</td><td>Max. 1 Ω</td></tr></table></td><td>1) Turn starting switch OFF.
2) Disconnect relay connector.</td></tr>
</table>

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ENG-3 Failure code [AD00L2] (Common rail: * See Contents (L2))

★ Nature of failure: The common rail fuel pressure has risen to high pressure (level 1)

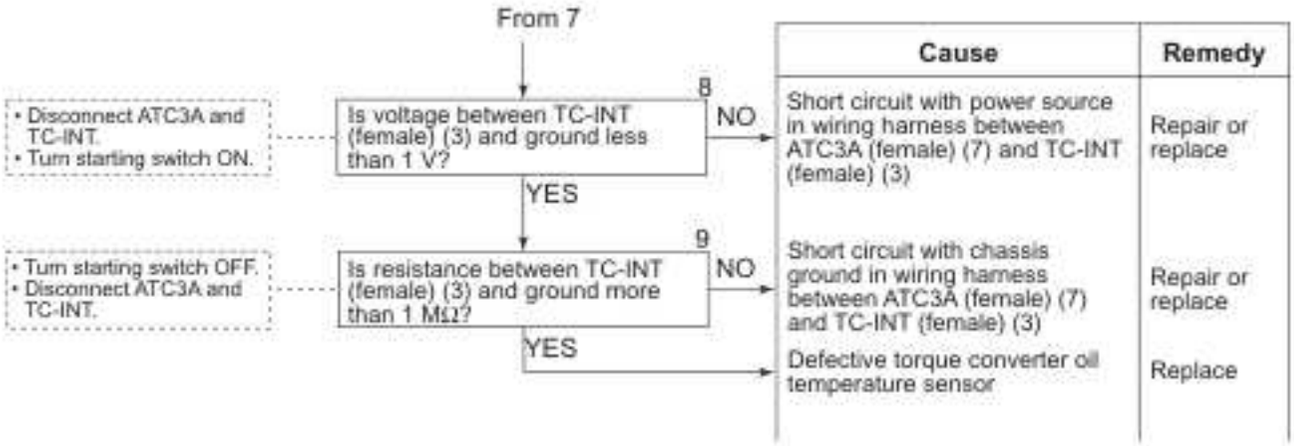


ENG-4 Failure code [AD00MA] (Common rail: Function impossible (MA))

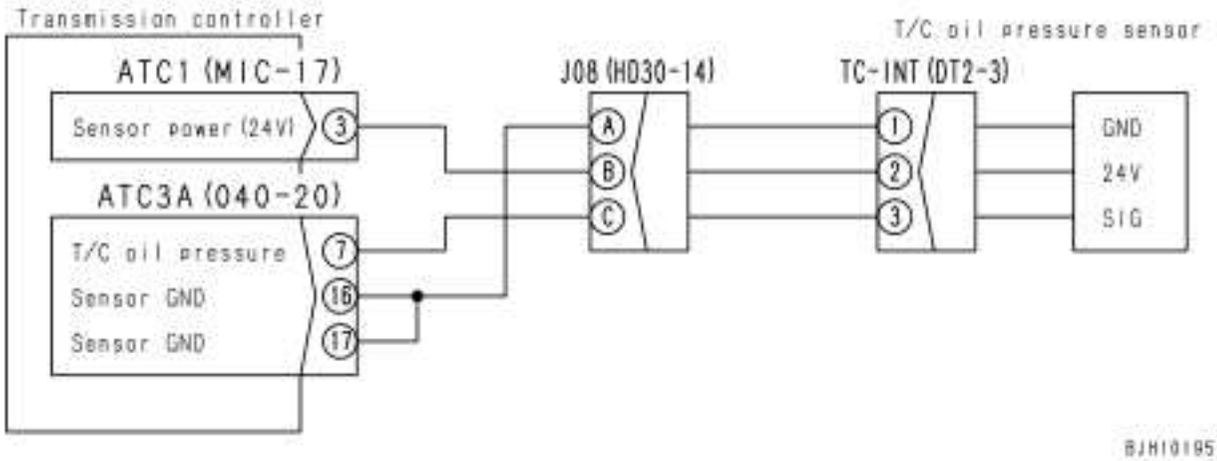
★ Nature of failure: The common rail fuel pressure has risen to high pressure (level 2)

★ Carry out troubleshooting for Troubleshooting No. ENG-3 (failure code [AD00L2].

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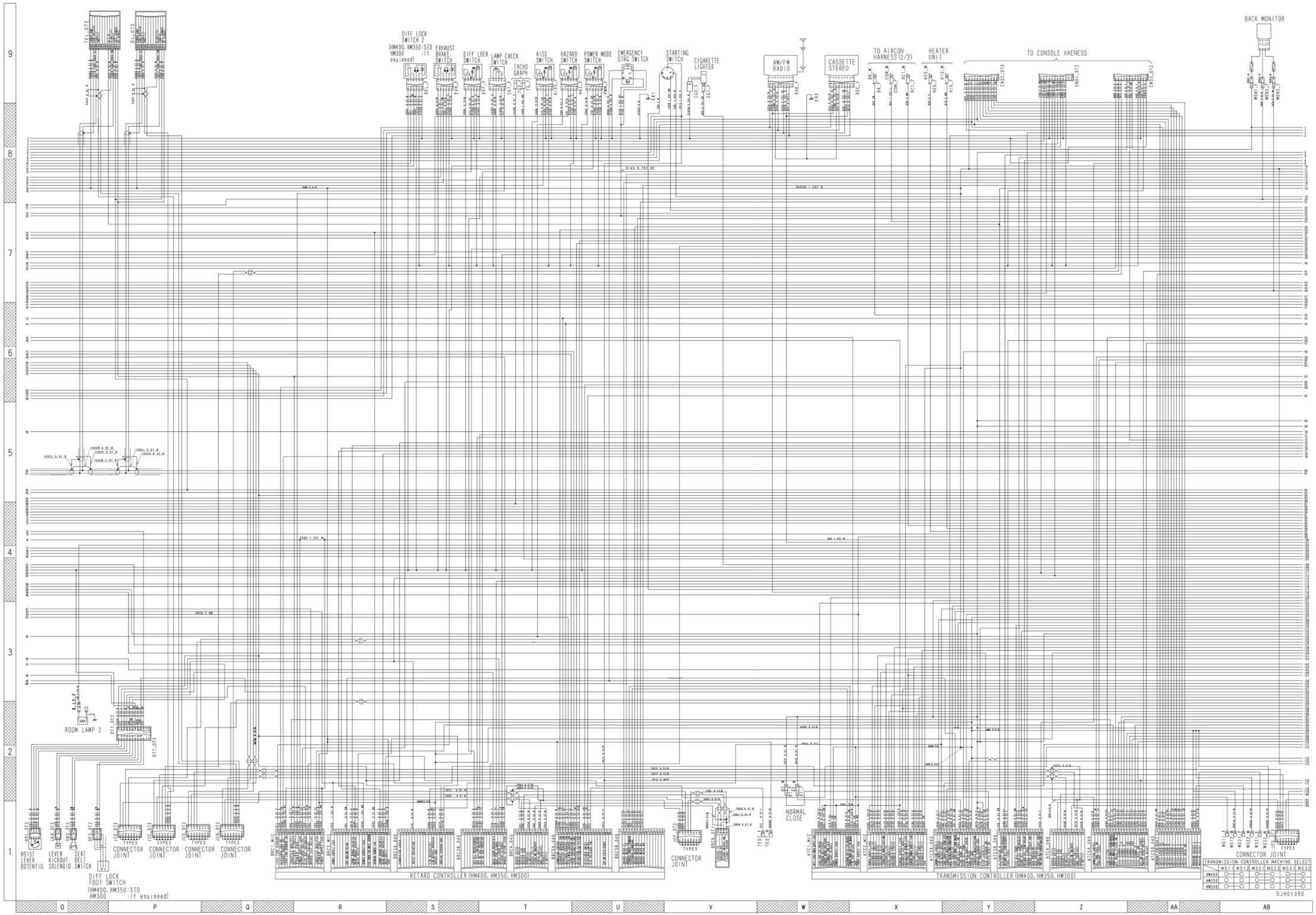


TM-66 Related electrical circuit diagram



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DIAGRAM FOR ELECTRICAL CIRCUIT INSIDE CAB (2/4)



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