CX700 Tier III
Crawler Excavator

Service Manual

87364111

CASE CONSTRUCTION

MidWestTech | Case CX700 Tier 3 Crawler Excavator Service Manual | Publication 87364111

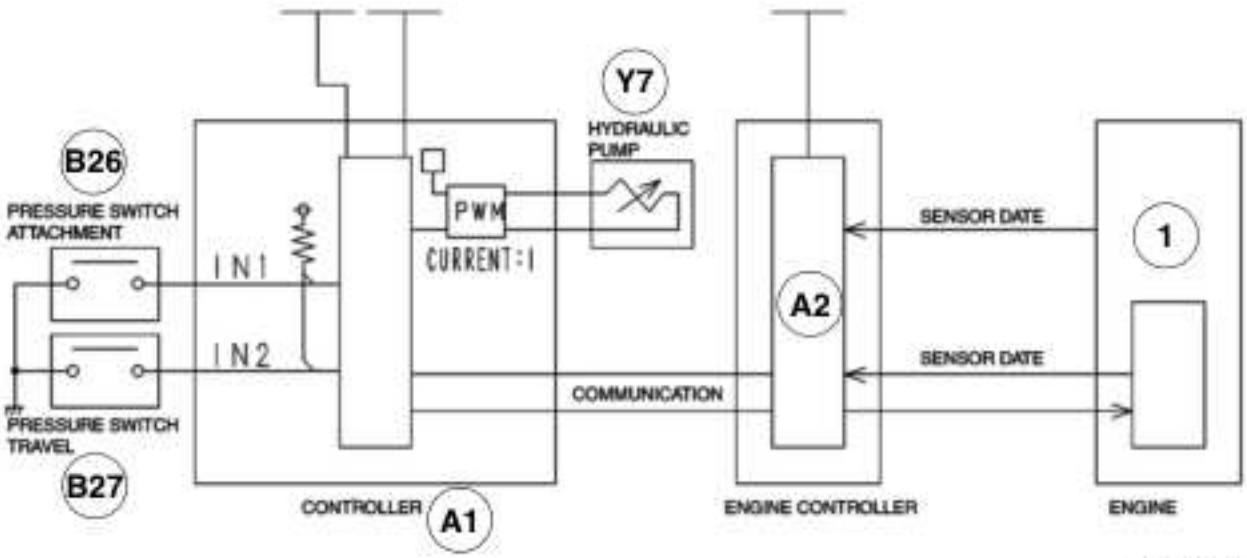
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B) Load pre-fetch control

1) Purpose

Pump current is controlled as measures against black smoke.

2) Circuit configuration



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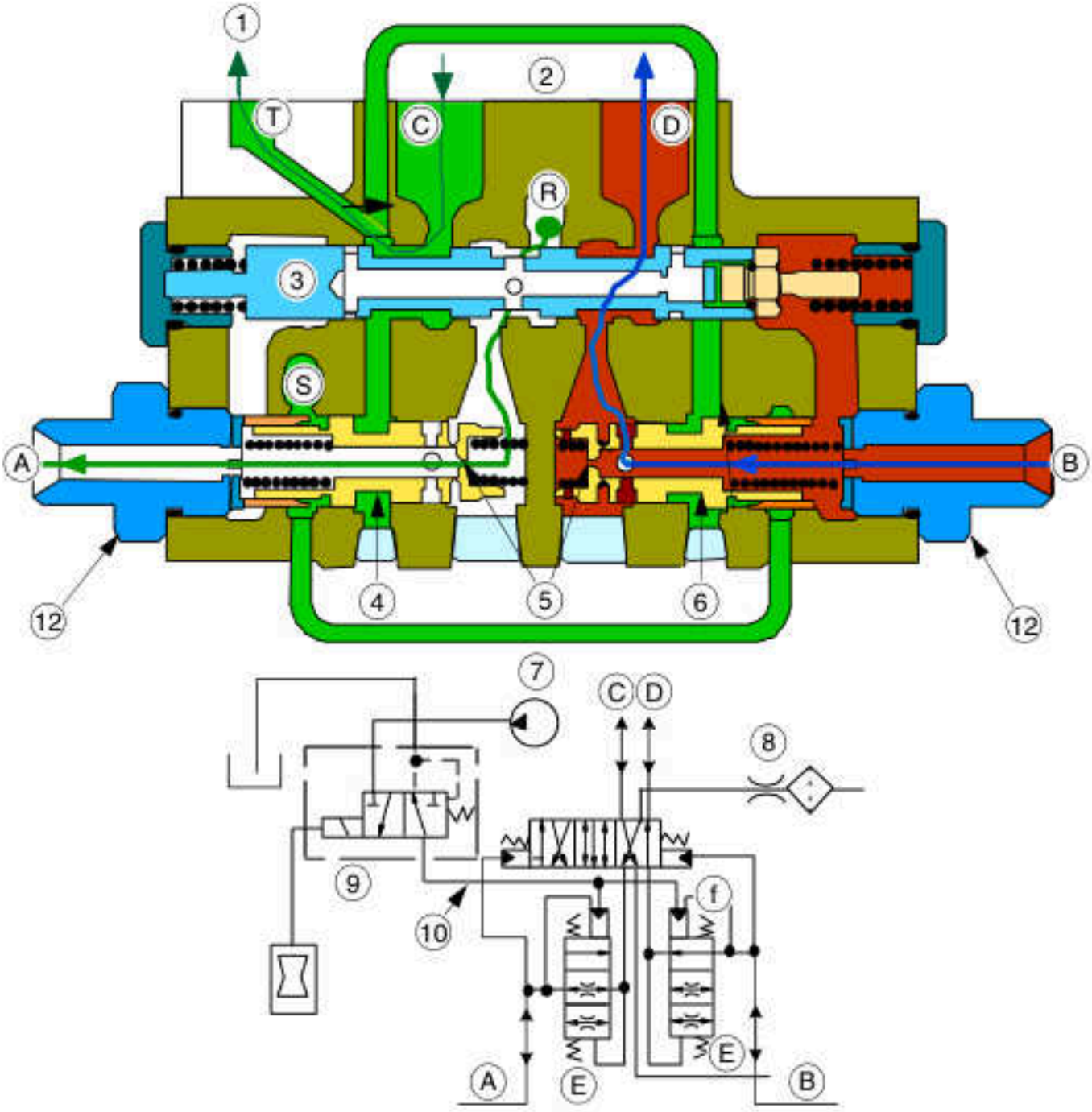
1 Engine
A1 Computer/Controller
A2 Engine controller
B26 Upper pilot pressure switch (yellow band)
B27 Travel pilot pressure switch
Y7 Main pump proportional solenoid

3) Operation

1. When no operation is carried out (attachment and travel pressure switches OFF), the pump current is always 0 mA regardless of operation mode and engine speed.
2. When attachment or travel pressure switch is turned ON, the controller provides pump current so that it can get to the set current for the work mode being selected after 0.8 second.

* No control for decreasing transient load has been employed for machines above current model of CX330.
Control for decreasing transient load is illustrated below:
Since engine response (or returning property) has been improved (or no difference between target speed and actual speed), if an abrupt engagement of the lever from inching operation is carried out, and when difference between target speed and actual speed reaches within 150 min^{-1}, pump current of 0 mA is to be applied to ease the engine load.
This is for the purpose of taking measures against black smoke and of prevention from engine stop.

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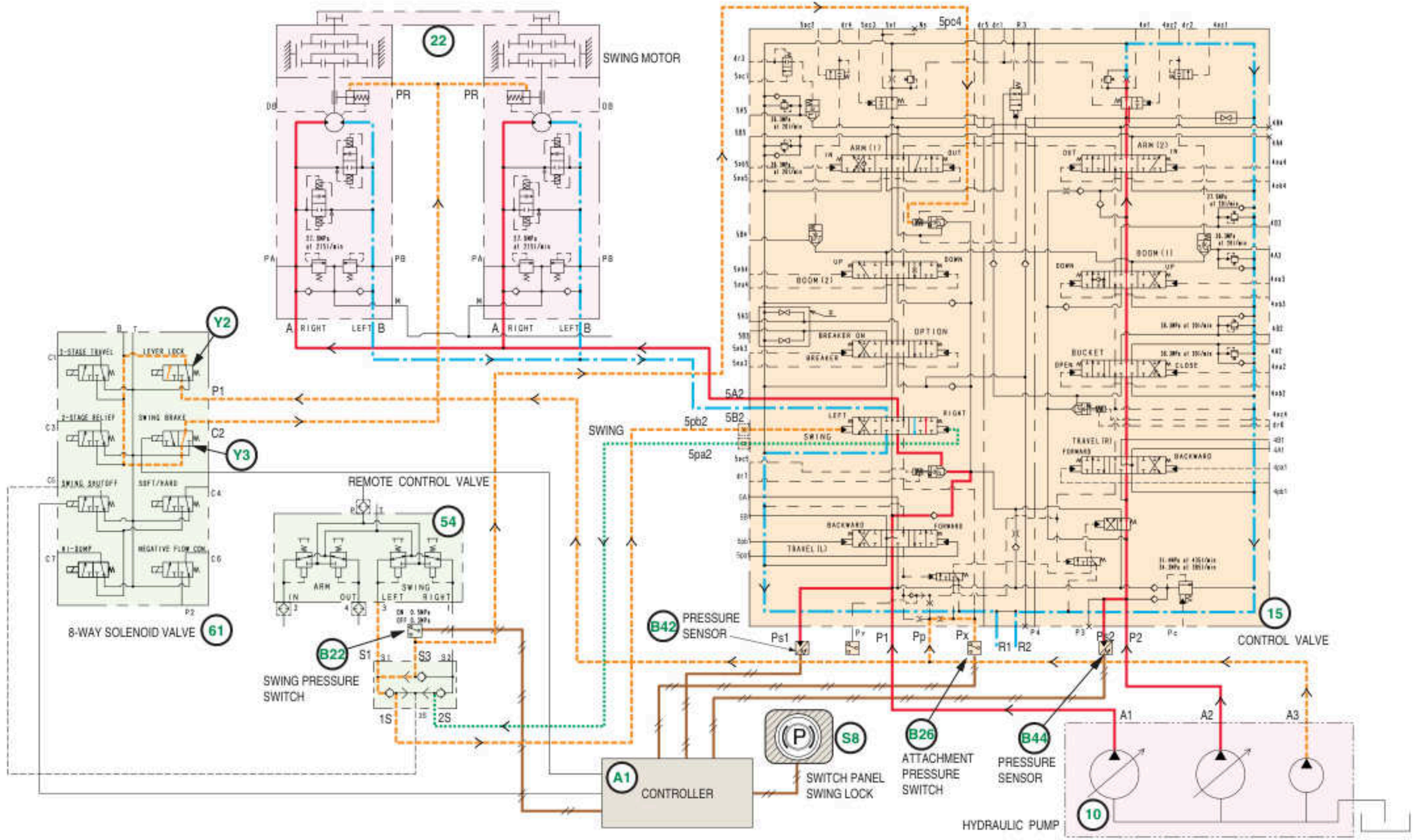


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1 TO RETURN FILTER
2 TO BOOM OR ARM SPOOL
3 SPOOL F
4 SPOOLS E
5 ORIFICES
6 SPOOLS E
7 PILOT PRESSURE
8 FROM CONTROL VALVE RETURN
9 CUSHION SHUT-OFF SOLENOID VALVE
10 S PORT
11 TO RETURN FILTER
12 FROM HAND CONTROL

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Swing Parking Circuit (Brake Released)



Lep 9-49090NA

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