SKYJACK

SERVICE MANUAL

SJ1044 TH, SJ1044 THS, SJ1056 TH, SJ1056 THS, SJ1256 THS

TELEHANDLERS



230790ACA
August 20 2026
ANSI

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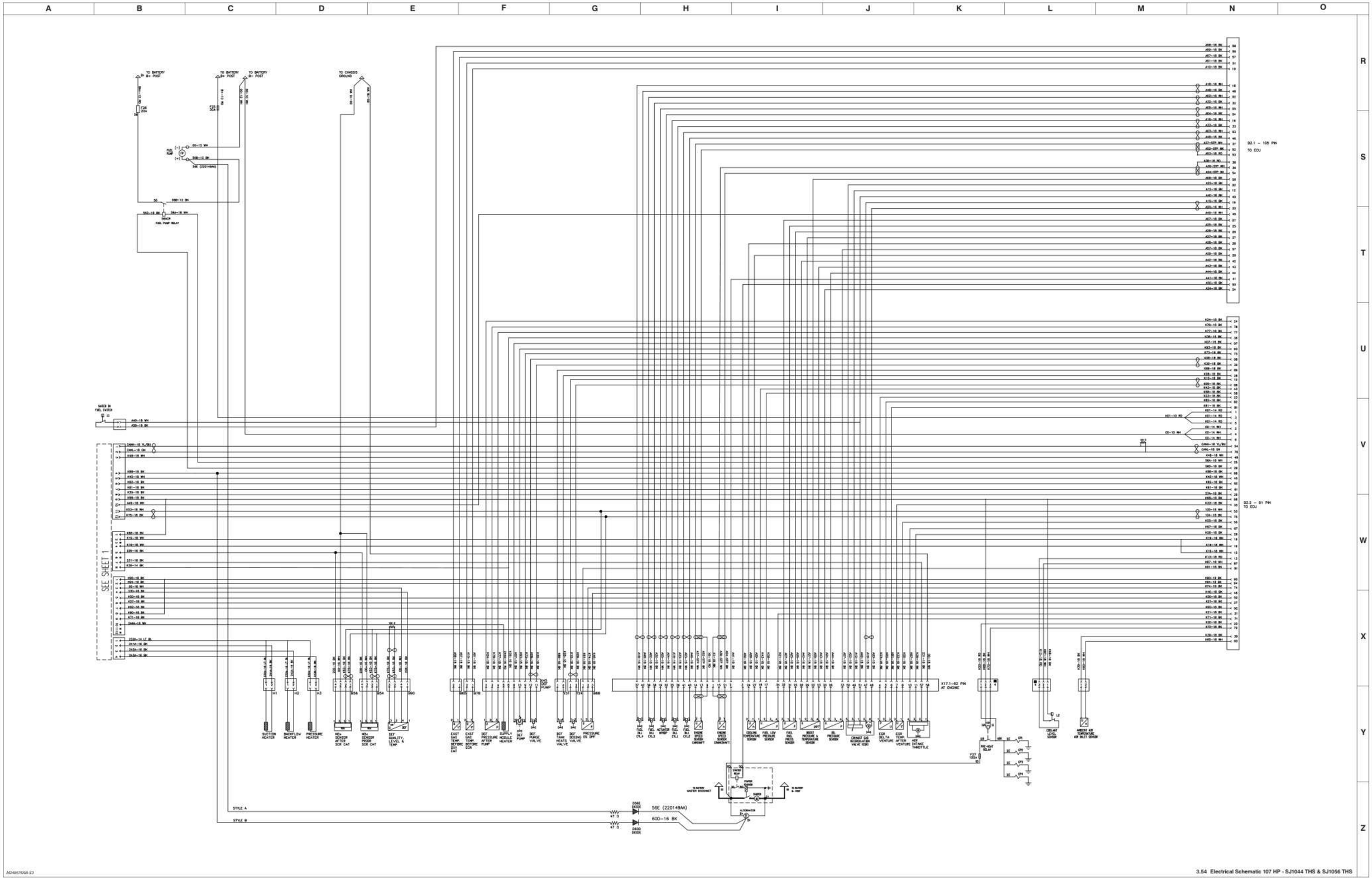
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Table 2.9 Specifications and Features - SJ1256 THS

Model		SJ1256 THS
Standard Engine		
Type		Deutz 3.6 L Tier 4 Final
Cylinders		4
Horsepower @ 2300 RPM		107 HP
Capacity		219 cu in (3600 cm^3)
Torque @ 1300 RPM		288 lb ft (390 N-m)
Idle Speed*		1100 – 1150 RPM
Fuel type		Diesel
Transmission		
Powershift	Type	Powershift with soft shift
	Speeds forward	3
	Speeds reverse	3
Travel Speeds		
Powershift	Range 1	0–4 mph (1–7 km/h)
	Range 2	5–8 mph (8–13 km/h)
	Range 3	9–15 mph (14–24 km/h)
Electrical		
Negative ground		12 Volts
Alternator		60 Amps
Battery		900 Amps
Backup Alarm		107 DBM
Hydraulic System		
Auxiliary Hydraulic Flow		18.9 - 26.5 L/min (5 - 7 GPM)
Dimensions		
Wheelbase		133 in (337.8 cm)
Overall width		8 ft 6 in (259.1 cm)
Overall height		8 ft 7 in (261.6 cm)
Overall length (less forks)		22 ft 10 in (697 cm)
Ground clearance		19 in (48.3 cm)
Maximum weight without attachment		33,482 lb (15,188 kg)
Turn radius (inside)		73 in (185.4 cm)
Turn radius (outside)		173 in (439.4 cm)
Boom		
Number of sections		4
Maximum lift height		56 ft 3 in (17.15 m)
Maximum forward reach		42 ft 4 in (12.90 m)
Standard Forks		2.25 in x 5 in x 48 in (standard tapered forks)
Carriage rollback		20°
Carriage forward tilt		92.5°

** Engine idle speed is measured with 5% droop when in gear.* *1231AC*
*** Add 400 lb (181.437 kg) to the maximum weight for machines with CVT*

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A
B
C
D
E
F
G
H
I
J
K
L
M
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O
R
S
T
U
V
W
X
Y
Z
SEE SHEET 1
D2.1 – 105 PIN
TO ECU
D2.2 – 91 PIN
TO ECU
X17.1–52 PIN
AT ENGINE
TO BATTERY B+ POST
TO CHASSIS GROUND
FUEL PUMP
FUEL PUMP RELAY
VALVE IN FUEL SWITCH
STYLE A
STYLE B
56E (220149AA)
60D–18 BK
SUCTION HEATER
BACKFLOW HEATER
PRESSURE HEATER
DEF PUMP
DEF PURGE VALVE
DEF THAW HEATG VALVE
DEF DOSING VALVE
PRESSURE DS DPF
FUEL INJ CYL 4
FUEL INJ CYL 3
FUEL INJ CYL 2
FUEL INJ CYL 1
ENGINE SPEED CAMSHAFT
ENGINE SPEED CRANKSHAFT
COOLING TEMPERATURE SENSOR
FUEL LOW PRESSURE SENSOR
FUEL RAIL PRESS SENSOR
EGR TEMP AFTER VENTURI
EGR DELTA VENTURI
EGR TEMP AFTER VENTURI
ACT INTAKE THROTTLE
COOLANT LEVEL SENSOR
AMBIENT AIR TEMPERATURE AIR INLET SENSOR
PRE-HEAT RELAY
STARTER RELAY
STARTER SOLENOID
STARTER
TO BATTERY WATER DISCONNECT
TO BATTERY B+ POST

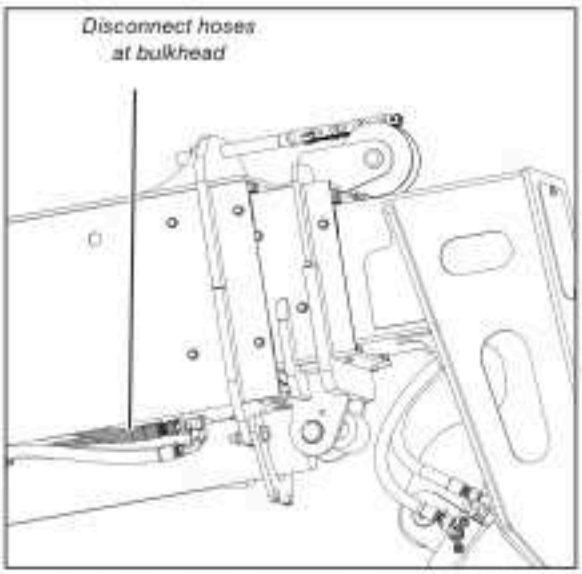
5.6-11 EMR5 Engine Error Codes

DTC #	FTB	SPN	FMI	Fault description
P1142, P1144, P1146, P1148, P114A, P114C, P114E	11	1485	4	ECU main relay: voltage is below the normal range or is shorted to a low source
P115A	01	3513	14	ECU sensor supply voltage 5: special instructions
P115A	4B	3513	11	ECU sensor supply voltage 5: the root cause is not known
P115B	17	3513	0	ECU sensor supply voltage 5: data is above the normal operational range (most severe level)
P115C	11	3513	6	ECU sensor supply voltage 5: current is above the normal range or grounded circuit
P115C	16	3513	1	ECU sensor supply voltage 5: data is below the normal operational range (most severe level)
P115D	01	3514	14	ECU sensor supply voltage 6: special instructions
P115D	4B	3514	11	ECU sensor supply voltage 6: the root cause is not known
P115E	17	3514	0	ECU sensor supply voltage 6: data is above the normal operational range (most severe level)
P115F	11	3514	6	ECU sensor supply voltage 6: current is above the normal range or grounded circuit
P115F	16	3514	1	ECU sensor supply voltage 6: data is below the normal operational range (most severe level)
P1168	00	520378	11	MCAN not enough memory: the root cause is not known
P1169	00	520379	11	MCANR not enough memory: the root cause is not known
P116A	11	520425	4	Powerstage on CJ945: voltage is below the normal range or is shorted to a low source
P116A	12	520425	3	Powerstage on CJ945: voltage is above the normal range or is shorted to a high source
P116A	13	520425	5	Powerstage on CJ945: current is below the normal range or open circuit
P116A	4B	520425	12	Powerstage on CJ945: bad intelligent device or component
P1173	00	520437	31	Replacement fault code triggered by FID UVMDSM04/V-engine: main secondary ECU swapped - condition exists
P1174	00	520438	31	Replacement fault code triggered by FID UVMDSM04 - condition exists
P1175	00	520439	31	Replacement fault code triggered by FID UVMDSM10 - condition exists
P1176	00	520439	31	Replacement fault code triggered by FID UVMDSM12 - condition exists
P1177	00	520441	31	Replacement fault code triggered by FID UVMDSM13 - condition exists
P119A, P119B, P119C,	00	629	12	ECU: bad intelligent device or component
P119D	00	91	14	Position accelerator pedal: special instructions
P119E	00	190	2	Rotation speed: data erratic, intermittent or incorrect
P119F, P11A2	00	5357	2	Fuel injection quantity multiple cylinders: data erratic, intermittent or incorrect
P11A0	00	5441	2	Fuel injection timing error multiple cylinders: data erratic, intermittent or incorrect
P11A1	00	520281	2	Injection temperature compensation: data erratic, intermittent or incorrect

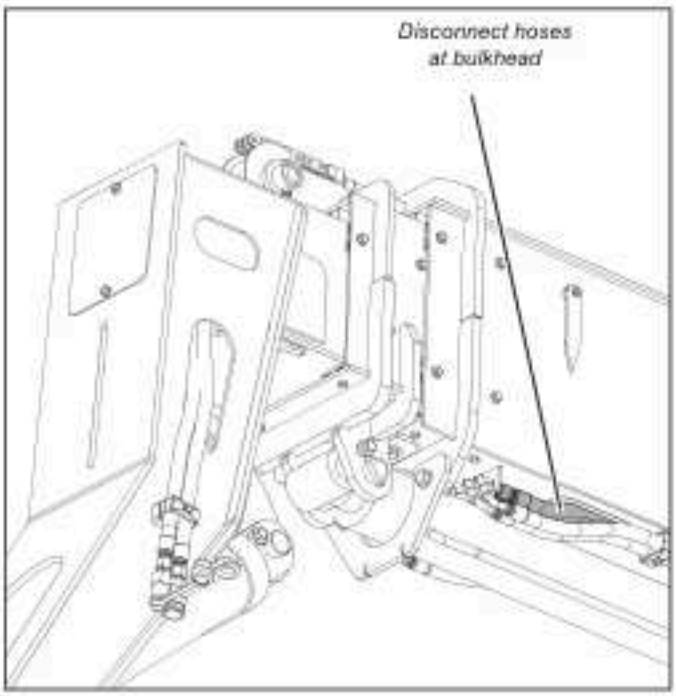
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Remove Boom Hoses

1. Remove end of Fork Tilt hoses at front bulkheads on main boom assembly.



2. Cap/plug all open lines and fittings.
3. Remove other end of Auxilliary Hydraulics hoses at front bulkheads on main boom assembly.



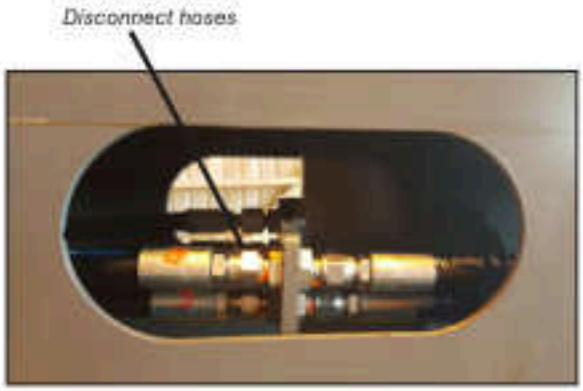
4. Cap/plug all open lines and fittings.

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5. Start engine and extend the boom approximately 3 feet to gain acces to side acces hole on fly boom section.



6. Shutdown engine and remove key from ignition switch.
7. Disconnect hoses at the rear of bulkhead as shown below.



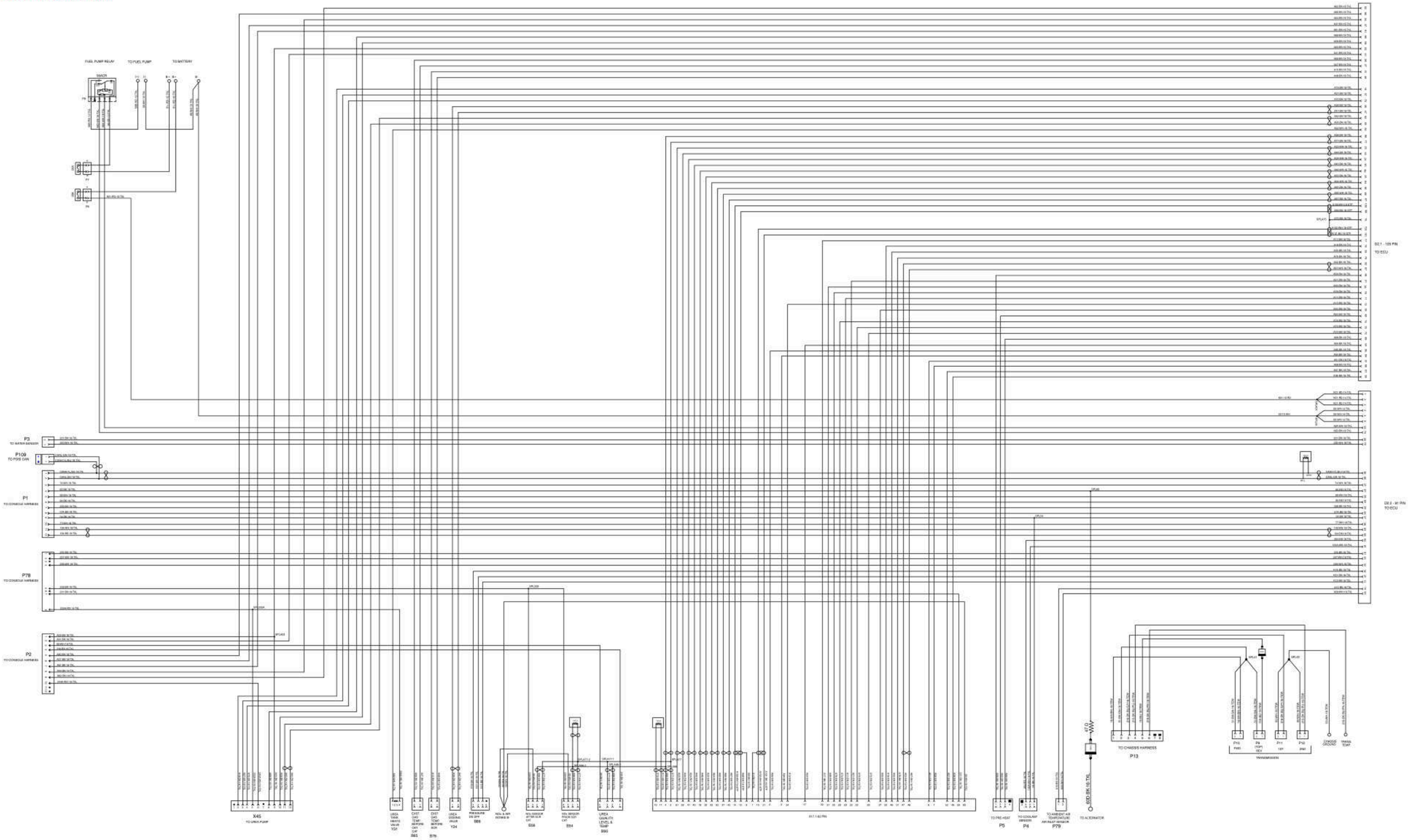
8. Cap/plug all open lines and fittings.
9. Remove the hoses at the rear of bulkhead fittings on the other side of the boom.
10. Cap/plug all open lines and fittings.
11. Start the engine and fully retract the boom.
12. Shutdown engine and remove key from ignition switch.
13. With rear access cover plate removed, pull the hoses out of boom assembly and thoroughly inspect all hoses. Replace hoses if needed.

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SJ1256 THS: 87 410 838 and below.



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3.42 Engine Harness Wiring Diagram 107 HP

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