SERVICE MANUAL

E30C

Mini Excavator

Part number 48175005
English
October 2017

NEW HOLLAND CONSTRUCTION

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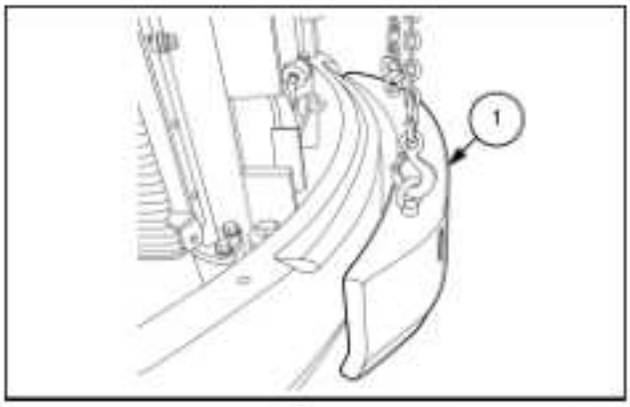
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Pump - Troubleshooting

Problem	Possible Cause	Correction
Overload to engine	Speed is higher than standard	Readjust it as standard
	Setting pressure is higher than specifications	Readjust it as specifications
	Damage of internal parts of pump	Repair or replace
Low pump flow or low pressure	Speed down of engine	Readjust of engine speed
	Wrong coupling	Repair or replace
	Damage of internal parts of pump	Repair or replace
Abnormal noise or abnormal vibration (cavitations)	Air in the oil	Check piping Bleed the air in the hydraulic circuit
	Water in the oil	Replace oil
	Clog of suction filter	Clean or replace
	High suction pressure	Correction
	Damage of piston shoe	Replace
	Installation condition is no good	Correction
	Wrong coupling	Replace
Oil leakage	Damage of O-ring or packing	Replace
	Loosened plug	Tight up
	Leaking from oil seal	Replace Replace of oil seal

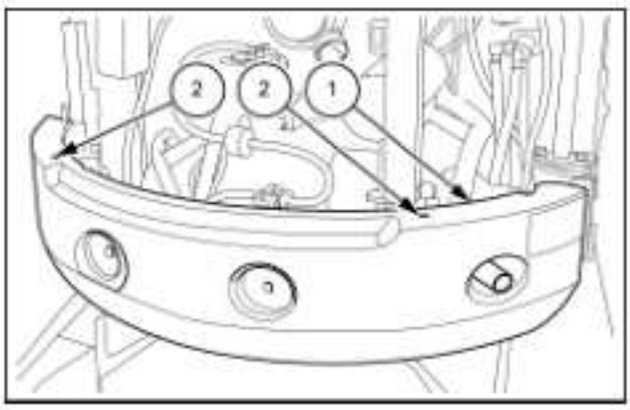
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4. Remove the additional counterweight **(1)**.
   - Thoroughly check that the location is safe before placing the additional counterweight on the wood plank.
   - Thoroughly secure the additional counterweight so that it does not fall over.
   - Weight: **131.0 kg** (**288.8 lb**).



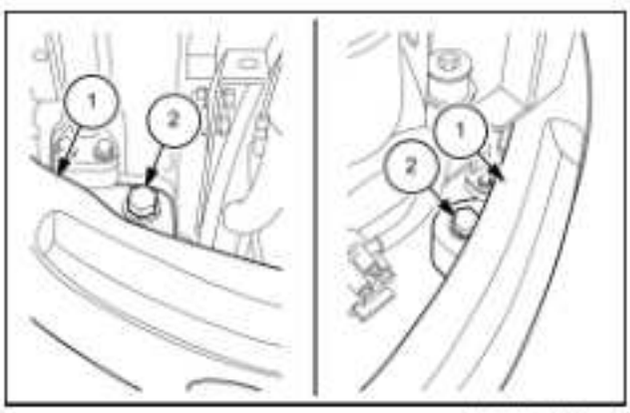
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5. Remove the caps and install the shackles **(2)** on the counterweight **(1)**.
6. Use the chains or wire ropes and a suitable lift-crane to secure the counterweight so that it does not fall during removal operations.



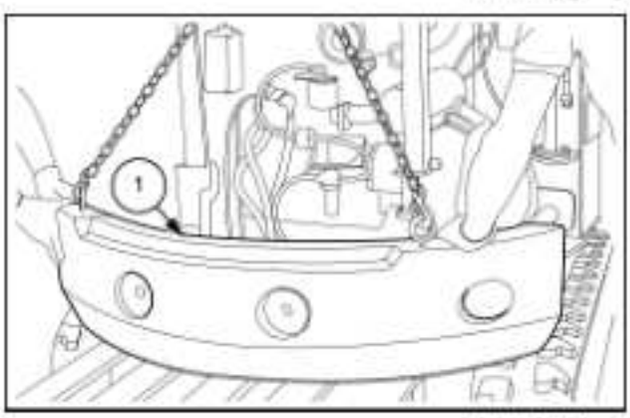
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7. Use a wrench [**30 mm**] to remove the bolts **(2)** of the counterweight **(1)**.



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8. Remove the counterweight **(1)**.
9. Thoroughly check that the location is safe before placing the additional counterweight on the wood plank.
   - Thoroughly secure the counterweight so that it does not fall over.
   - Weight: **220.0 kg** (**485.0 lb**).



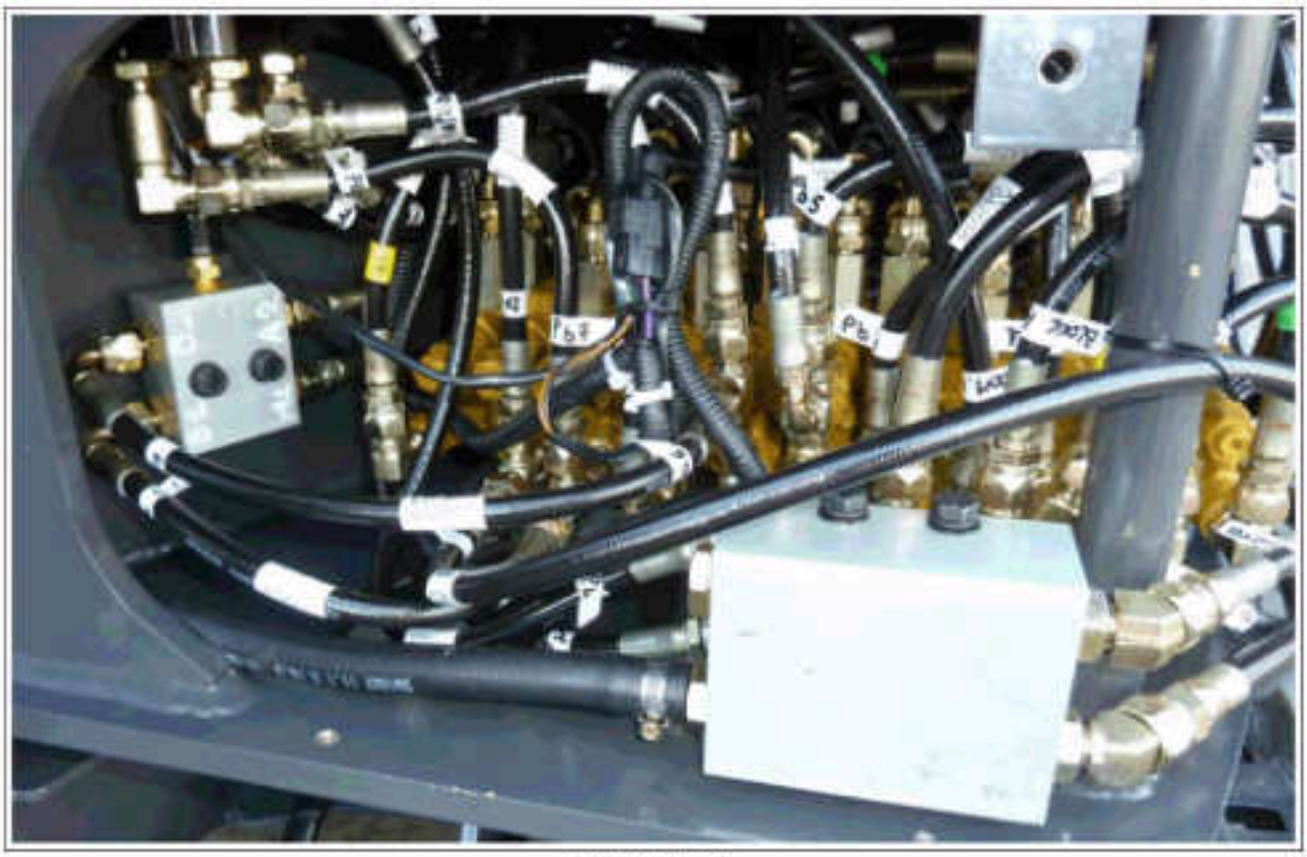
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Component	Connector	Connector type
Intermediate connector: fuse box - main harness	**CN-1**	AMP
Intermediate connector: main harness - fuse box	**CN-2**	AMP
Intermediate connector: main harness - left-hand console harness	**CN-3**	AMP
Intermediate connector: right-hand console harness - main harness	**CN-4**	AMP
Intermediate connector: main harness - right-hand console harness	**CN-5**	AMP
Fuse box	**CN-36**	–
Engine starter	**CN-45**	RING TERM/ YAZAKI
Cluster	**CN-56**	AMP
Fusible link	**CN-60**	AMP
Safety solenoid valve	**CN-68**	DEUTSCH
Alternator	**CN-74**	RING TERM/ YAZAKI
Engine stop solenoid	**CN-79**	SUMITOMO
GPS telematics	**CN-125**	–
Engine start relay	**CR-23**	KET
Power relay	**CR-35**	KET
Starter key switch	**CS-2**	AMP
Safety switch	**CS-3**	SWF
Starter key switch	**CS-46**	KET
Master switch	**CS-74**	RING TERM

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Stacked control valves - Overview

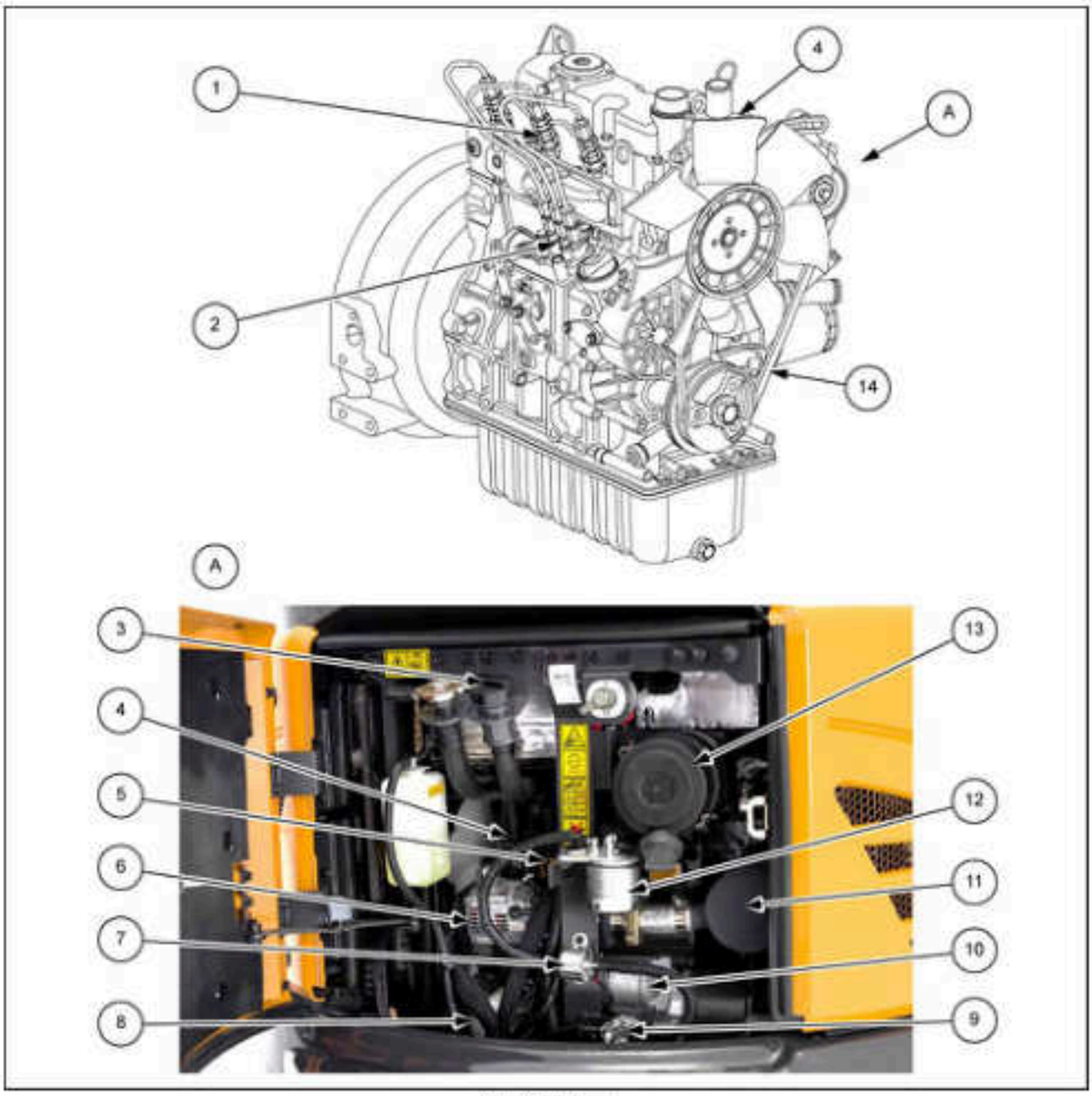


Main control valve view

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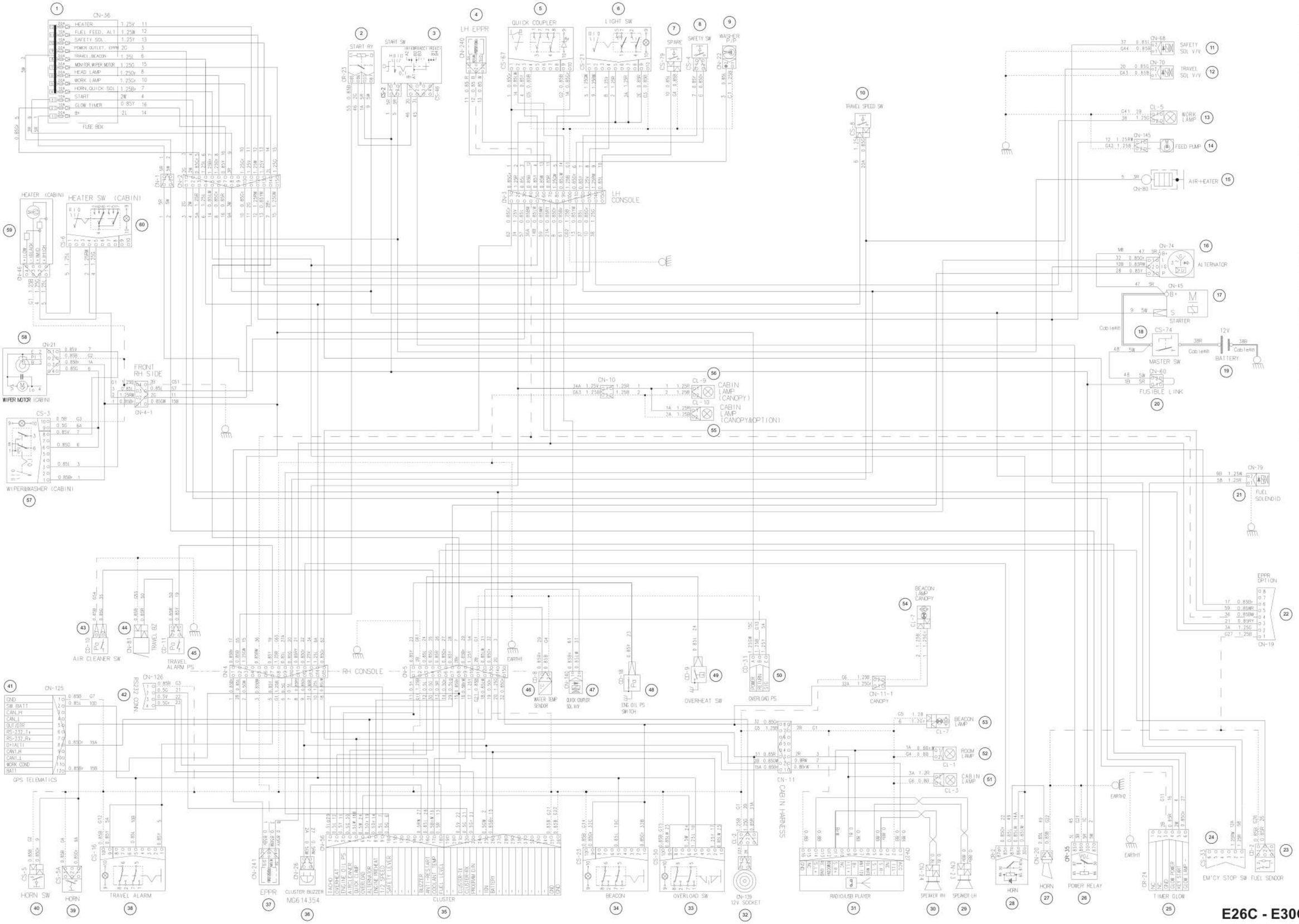
Engine - Overview

Engine main components



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LEGEND

1. Fuse box
2. Starter relay
3. Starter switch
4. LH EPPR
5. Quick coupler switch
6. Light switch
7. Spare
8. Safety switch
9. Washer pump
10. Travel speed switch
11. Safety solenoid valve
12. Travel solenoid valve
13. Work lamp
14. Feed pump
15. Air-heater
16. Alternator
17. Engine starter
18. Master switch
19. Battery
20. Fusible link
21. Fuel solenoid
22. EPPR option connector
23. Fuel sensor
24. Emergency stop switch connector
25. Glow timer relay
26. Power relay
27. Horn
28. Horn relay
29. Speaker (left)
30. Speaker (right)
31. Radio and USB player
32. 12V socket
33. Overload switch
34. Beacon switch
35. Cluster
36. Cluster buzzer
37. EPPR
38. Travel alarm pressure switch
39. Horn switch
40. Horn switch
41. GPS telematics
42. RS232 connector
43. Air cleaner switch
44. Travel buzzer
45. Travel alarm pressure switch
46. Coolant temperature sensor
47. Quick coupler solenoid valve
48. Engine oil pressure switch
49. Overheat switch
50. Overload pressure switch
51. Cabin lamp
52. Room lamp
53. Beacon lamp
54. Beacon lamp (Canopy version)
55. Cabin lamp (Canopy version and option)
56. Cabin lamp (Canopy version)
57. Wiper and washer switch
58. Wiper motor
59. Heater
60. Heater switch

E26C - E30C EXCAVATOR ELECTRICAL SCHEMATIC

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