KOBELCO

SERVICE MANUAL

HYDRAULIC EXCAVATOR

SK170LC-6ES

SK170-6E

S5YM0104E

APPLICABLE:
YM05-00651~

Issued: October, 2004

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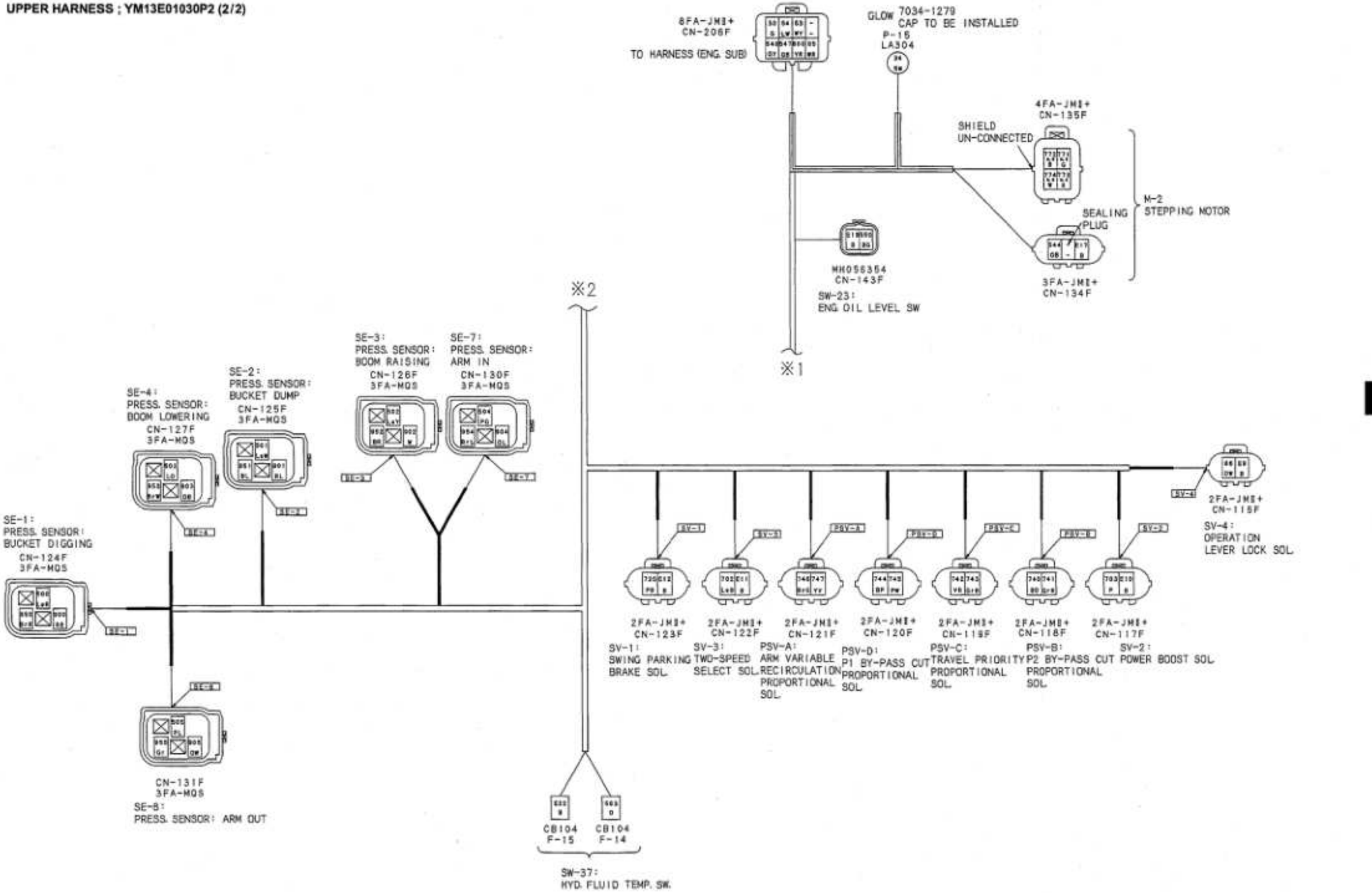


Fig. 12B (2/3) Upper harness

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Symptoms / Possible causes	Decrease of power	Engine noise abnormal	Remarks
Oil viscosity unsuitable	○		Gr 12
Fuel incorrect or unsuitable	○		
Valve clearance faulty	○	○	
Cylinder head gasket faulty	○	○	
Valve and valve seat worn, and carbon deposits	○	○	
Valve spring fatigued	○	○	
Piston ring worn or damaged	○	○	
Piston ring grooves worn or damaged	○	○	
Injection timing faulty	○	○	Gr 13
Injection pump malfunctioning	○	○	Gr 13
Cooling system malfunctioning	○		Gr 14
Injection nozzle malfunctioning	○	○	Gr 13
Air trapped in fuel system	○		Gr 13
Air cleaner clogged	○		Gr 15
Muffler clogged	○		Gr 15
Turbo-charger malfunctioning <4D31-T, 34-T>	○	○	Gr 15
Pipes and hoses installed incorrectly		○	
Injection pump, alternator or other auxiliary device(s) faulty or incorrectly installed		○	Gr 13, Gr 54
V-belt loose or damaged		○	Gr 14
Crankshaft pulley mounted incorrectly		○	
Air cleaner or muffler malfunctioning		○	Gr 15
Rocker shaft and bracket faulty		○	
Rocker shaft bracket lubrication faulty		○	
Timing gear backlash faulty		○	
Timing gear and idler shaft area lubricated poorly		○	
Connecting rod small end bushing worn and piston pin worn		○	
Crankshaft pin and big end bearing of connecting rod worn or damaged		○	
Crankshaft journal and main bearing worn or damaged		○	
Crankshaft and camshaft end play excessive		○	
Tappet and camshaft worn		○	

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SPECIFICATIONS

Air Cleaner

Item	Specifications	
Type	Cyclone type paper filter	Cartridge type paper filter
Manufacturer	Nihon Donaldson	

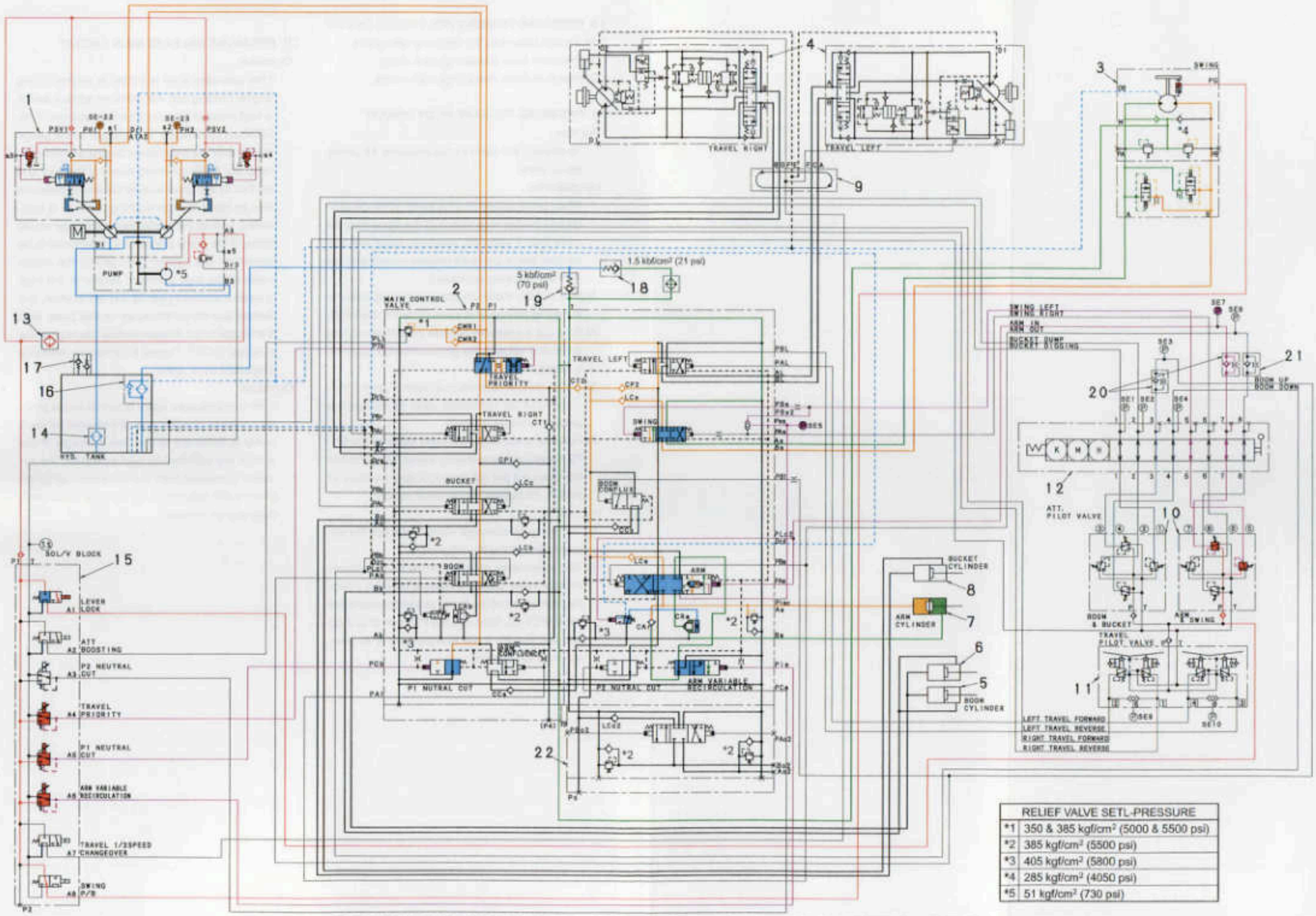
Dust Indicator

Item	Specifications	
Type	Mechanical type	Electric type

Turbocharger

Item	Specifications
Type	TD04HL
Manufacturer	Mitsubishi Heavy Industries

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RELIEF VALVE SETL-PRESSURE	
*1	350 & 385 kgf/cm² (5000 & 5500 psi)
*2	385 kgf/cm² (5500 psi)
*3	405 kgf/cm² (5800 psi)
*4	285 kgf/cm² (4050 psi)
*5	51 kgf/cm² (730 psi)

COMBINED CIRCUIT : SWING & ARM IN OPERATION, SWING PRIORITY FUNCTION

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