GENERAL SPECIFICATIONS

Shipping Weight	70.1 metric tons (154,544 lb), includes fuel 100 ℓ, boom, 3,550 mm (11' 8"), arm, standard bucket and standard shoes
Operating Weight	70.1 metric tons (154,544 lb) includes weight of full fuel tank.
Shipping Weights With Optional Track Shoes	Add 870 kg (1,918 lb) for 750 mm (29.5") shoes
	Add 1,890 kg (4,167 lb) for 900 mm (35.5") shoes
Major Component Weights	Standard Boom 7,700 mm (25' 3") 5,440 kg (11,995 lb)
	6,650 mm (21' 10") Arm 5,200 kg (11,464 lb)
	3,550 mm (11' 8") Arm 2,480 kg (5,470 lb)
	2,900 mm (9' 6") Arm 2,440 kg (5,380 lb)
	2,600 mm (8' 6") Arm 2,320 kg (5,115 lb)
	4,200 mm (13' 9") Arm 2,780 kg (6,130 lb)
	Boom Cylinders 565 kg (1,246 lb) each
	Standard Arm Cylinder 900 kg (1,985 lb)
	Option Arm Cylinder 860 kg (1,900 lb)
	Standard Bucket Cylinder 540 kg (1,190 lb)
	Option Bucket Cylinder 570 kg (1,260 lb)
	Counterweight 11,300 kg (24,912 lb)
	Upper Turntable 20,230 kg (44,600 lb) (Excluding Counterweight and Front)
	Lower - 28,120 kg (61,994 lb) (Including Swing Bearing)
Digging Forces (at Power Boost):	
Bucket Cylinder	31,500 kg (69,450 lb) with Standard Boom
	35,600 kg (78,485 lb) with Short Boom
Arm Cylinder	28,300 kg (62,395 lb) with 3,550 mm (11' 8") Arm
	32,500 kg (71,650 lb) with 2,900 mm (9' 6") Arm
	34,100 kg (75,180 lb) with 2,600 mm (8' 6") Arm
	25,500 kg (56,220 lb) with 4,200 mm (13' 9") Arm
Fuel Tank Capacity	900 liters (237.8 U.S. gal)
Hydraulic System Capacity	790 liters (208.7 U.S. gal)
Hydraulic Reservoir Capacity	350 liters (92.5 U.S. gal)
Bucket Heaped Capacity Range	PCSA 2.50 - 4.50 m^3 (3.27 - 5.89 yd^3)
	IMPORTANT: Refer to the Load Weight, Bucket and Arm Length Compatibility Table for information on which bucket sizes may be used safely with which arm length, for load material weights.
Shoe Type	Double Grouser

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WORKING RANGE

⚠ WARNING

The actual value for dimension "L" Digging Reach, depends on the stability and support provided by ground conditions. Digging too far underneath the excavator if soil conditions are wet, loose or unstable can collapse ground support, which could cause injury and/or equipment damage.

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19. Install the oil feed pipe and oil return pipe to the supply pump.

    Tightening torque:

    M10: 10 N•m (1.0 kg•m/7.4 lb•ft)

    M14: 27 N•m (2.8 kg•m/20 lb•ft)

Reference Number	Description
1	Oil Feed Pipe
2	Oil Return Pipe
3	Supply Pump

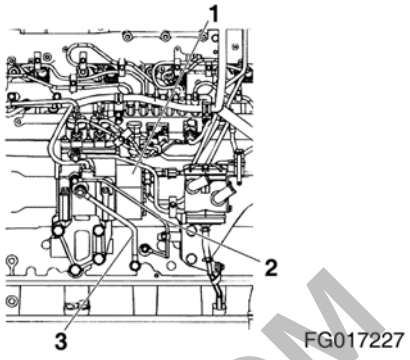


Figure 101

20. Install each fuel pipe by using procedures 21 - 27.
    - Fix each of the fuel pipe installation positions with clips.

      Tightening torque:

      M8: 15 N•m (1.5 kg•m/11 lb•ft)

      M10: 28 N•m (2.9 kg•m/21 lb•ft)

      M12: 35 N•m (3.6 kg•m/26 lb•ft)

      M14: 41 N•m (4.2 kg•m/30 lb•ft)

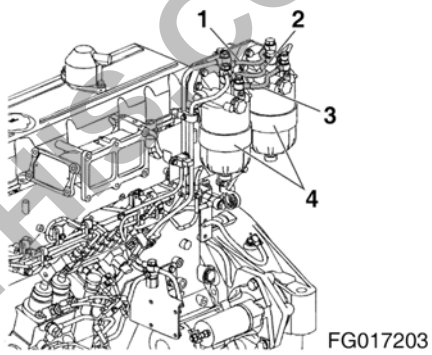


Figure 102

21. Install the fuel pipe (fuel filter - fuel filter) to the fuel filter.
22. Install the fuel filter to the bracket.
23. Install the fuel pipe (feed pump - fuel filter).
24. Install the fuel pipe (fuel filter - supply pump).
    - Fix the fuel pipe with clips.

Reference Number	Description
1	Fuel Pipe (Fuel Filter - Supply Pump)
2	Fuel Pipe (Feed Pump - Fuel Filter)

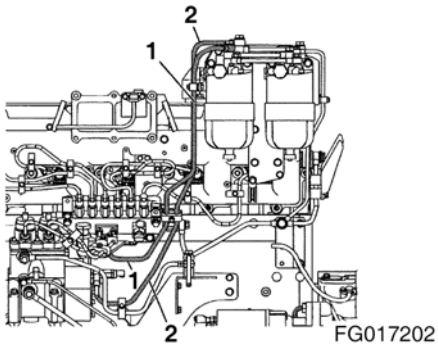


Figure 103

25. Install the nozzle leak-off pipe.

Reference Number	Description
1	Fuel Return Pipe (Filter)
2	Head Lower Cover
3	Nozzle Leak-off Pipe

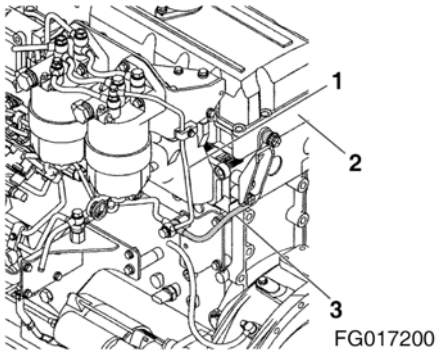


Figure 104

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Failure Information Code at Machine Side

Code	Failure Component	Measuring Points	Correct Value		Remarks
			Active	Passive	
V201	Gauge Panel Communication Error	CN7-4 CN7-5	-	R = 60 ± 5 Ω	It is a composite resistance of CAN line. This value has to be measured by connected condition of CAN line.
V202	ECU Communication Error	CN4-4 CN4-5	-	R = 60 ± 5 Ω	
V210	Pump P/V	CN1-10 CN1-21	-	R = 18 ± 2 Ω (25°C (77°F))	Pump proportional pressure reducing valve.
V211	Cooling Fan P/V		-	-	N.A.
V212	Flow Control P/V	CN1-19 CN1-20	-	R = 14 ± 2 Ω (25°C (77°F))	Flow control proportional pressure reducing valve.
V213	Relief Pressure Up S/V	CN1-1 CN1-11	V = V_volt (Note 4.)	R = 26.2 ± 2 Ω (25°C (77°F))	Breaker/boost/ shear selector switch has to be selected as a boost function and the boost switch on the right-hand joystick is "ON" status.
V214	High Speed S/V	CN1-1 CN1-12	V = V_volt	R = 26.2 ± 2 Ω (25°C (77°F))	Voltage is only measured when the pressure switch (Py) is turned "ON."
V216	Reverse Fan Speed S/V		-	-	N.A.
V217	Starter Relay	CN1-1 CN1-15	V = V_volt	-	It has to be measured in engine start up state.
V218	After Heat Relay	1-16 1-04	-	-	N.A.
V220	Front Pump Press. Sensor	CN3-1 CN3-2	V = 1V	-	It has to be measured in engine stop state.
V221	Rear Pump Press. Sensor	CN3-3 CN3-4	V = 1V	-	

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13. Apply grease to O-rings (22) (24), backup ring (23) (25), and install them to break piston (21).

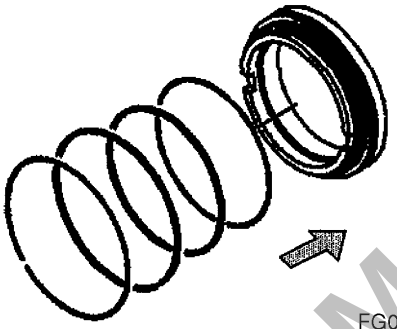
And install brake piston (21) to case (1) to align pins (27) installed on base plate in No.** with holes on brake piston (21).

When install it, beat on evenly outside of brake piston by using of plastic hammer.

NOTE: *a) Each backup rings should be set out side position.*

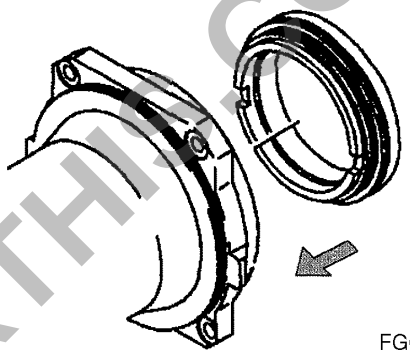
b) Be careful of installing direction of brake piston.

c) Apply grease to outside of brake piston and inside of case (1).



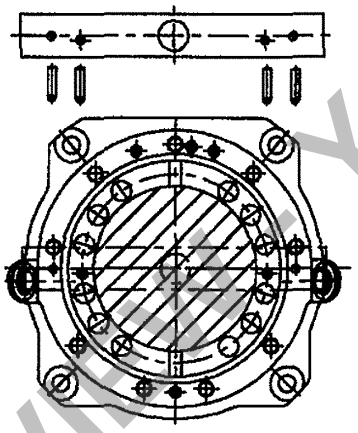
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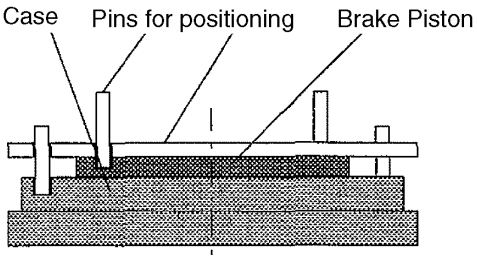
Figure 53



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Figure 54





FG016557

Figure 55

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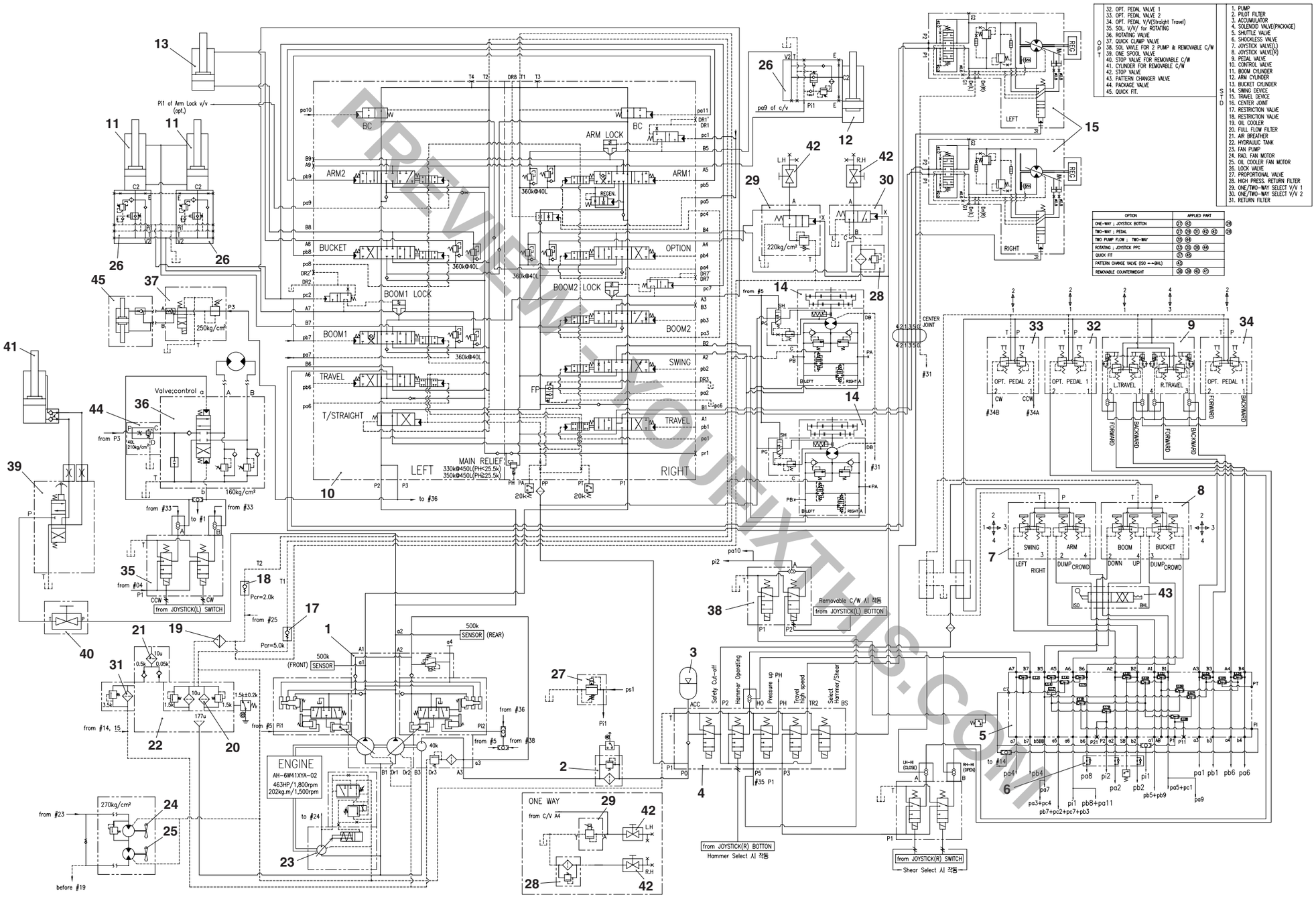
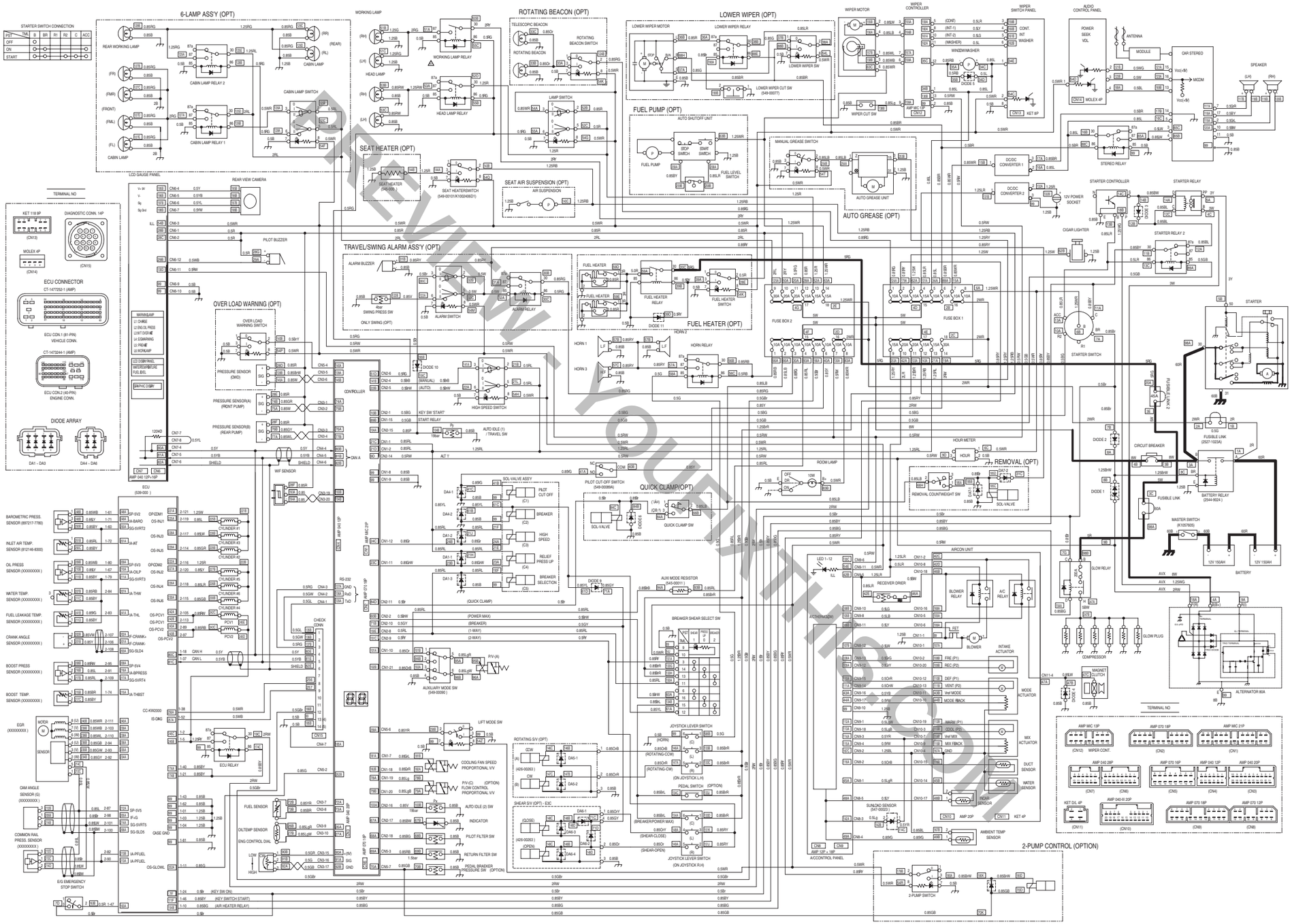


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Figure 1

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