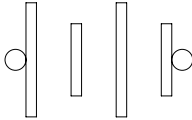
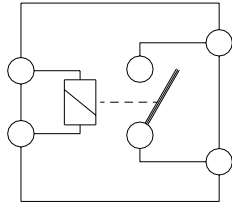
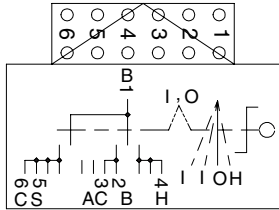
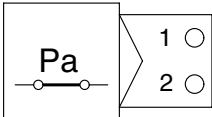
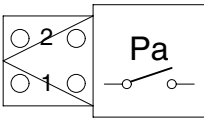
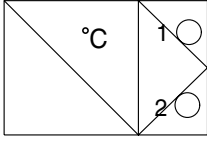
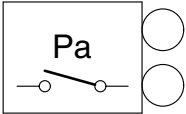
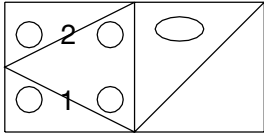
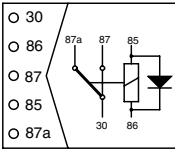
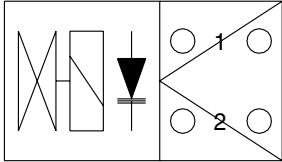
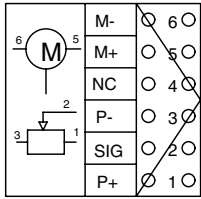
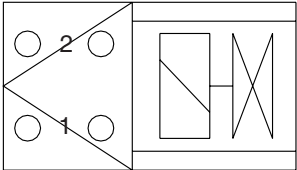
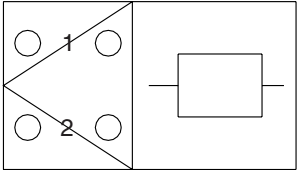
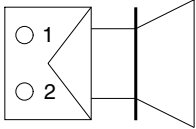
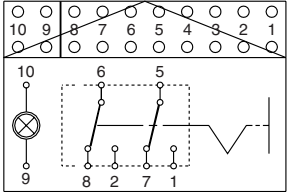
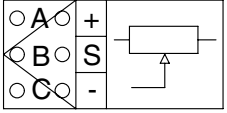
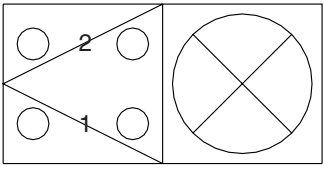
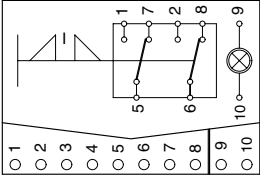
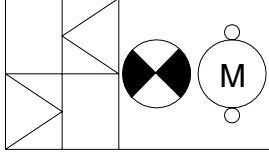
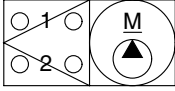
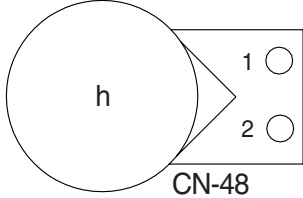
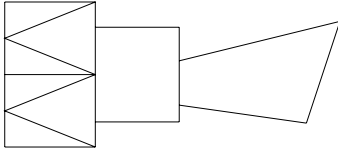
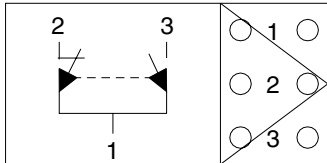


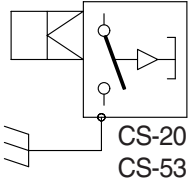
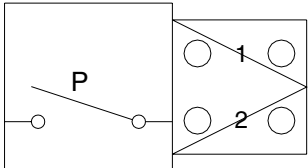
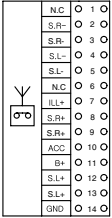
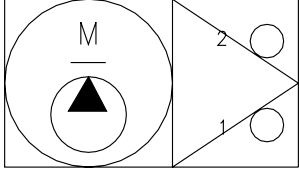
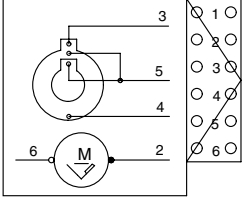
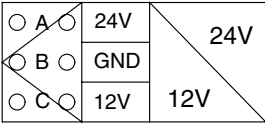
GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

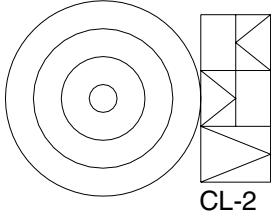
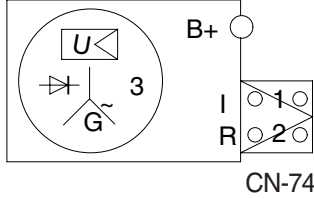
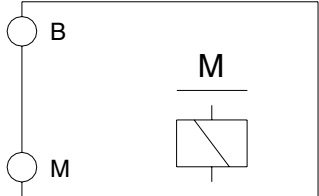
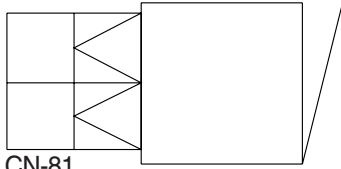
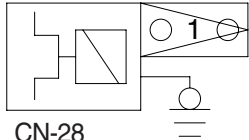
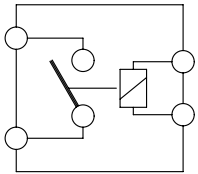
Part name	Symbol	Specifications	Check
Battery		12V × 160Ah (2EA)	※ Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging
Battery relay	 <p style="text-align: center;">CR-1</p>	Rated load : 24V 100A(continuity) 1000A(30seconds)	※ Check coil resistance(M4 to M4) Normal : About 50 Ω ※ Check contact Normal : ∞ Ω
Start key		B-BR : 24V 1A B-ACC : 24V 10A B-ST : 24V 40A	※ Check contact OFF : ∞ Ω (For each terminal) ON : 0 Ω (For terminal 1-3 and 1-2) START : 0 Ω (For terminal 1-5)
Pressure switch (Travel, working)	 <p style="text-align: center;">CD-6 CD-7</p>	10kgf/cm ² (N.C TYPE)	※ Check contact Normal : 0.1 Ω
Pressure switch (For overload)	 <p style="text-align: center;">CD-37</p>	3~6kgf/cm ² (N.O TYPE)	※ Check contact Normal : ∞ Ω

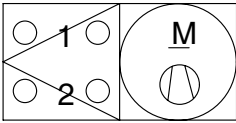
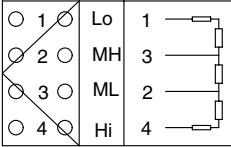
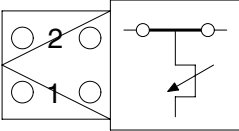
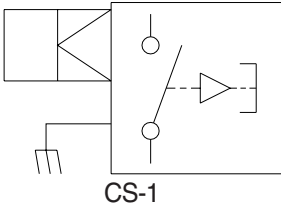
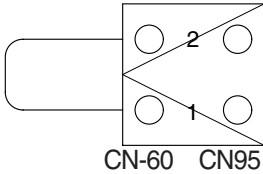
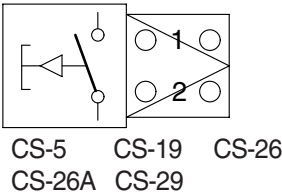
Part name	Symbol	Specifications	Check
Temperature sensor (Hydraulic, water temp)	 <p>CD-1 CD-8</p>	-	※ Check resistance 50°C : 804 Ω 80°C : 310 Ω 100°C : 180 Ω
Air cleaner pressure switch	 <p>CD-10</p>	-	※ Check contact High level : ∞ Ω Low level : 0 Ω
Fuel sender	 <p>CD-2</p>	-	※ Check resistance Full : 50 Ω 6/12 : 350 Ω 11/12 : 100 Ω 5/12 : 400 Ω 10/12 : 150 Ω 4/12 : 450 Ω 9/12 : 200 Ω 3/12 : 500 Ω 8/12 : 250 Ω 2/12 : 550 Ω 7/12 : 300 Ω 1/12 : 600 Ω Empty warning : 700 Ω
Relay	 <p>CR-2 CR-5 CR-7 CR-13 CR-35 CR-36 CR-46</p>	24V 16A	※ Check resistance Normal : About 160 Ω (For terminal 85-86) 0 Ω (For terminal 30-87a) ∞ Ω (For terminal 30-87)
Solenoid valve	 <p>CN-66 CN-68 CN-70 CN-88 CN-133 CN-137 CN-140</p>	24V 1A	※ Check resistance Normal : 15~25 Ω (For terminal 1-2)
Accel actuator	 <p>CN-76</p>	-	※ Check resistance Normal : 9~10 Ω (For terminal 5-6) 0.8~1.2 kΩ (For terminal 1-3)

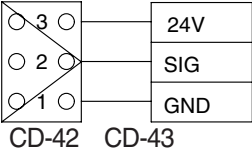
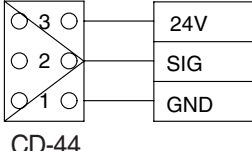
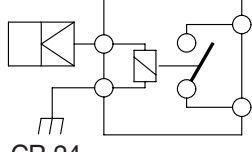
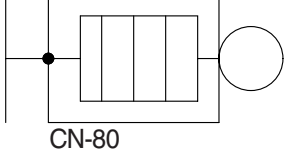
Part name	Symbol	Specifications	Check
EPPR valve	 CN-75	700mA	※ Check resistance Normal : 15~25 Ω (For terminal 1-2)
Resistor	 CN-47	45 Ω 20W±5%	※ Check resistance Normal : 45 Ω
Speaker	 CN-23(LH) CN-24(RH)	20W	※ Check resistance Normal : 4 Ω
Switch (Locking type)	 CS-23 CS-27 CS-50 CS-52 CS-54 CS-82 CS-83 CS-84	24V 8A	※ Check contact Normal ON : 0 Ω (For terminal 1-5, 2-6) ∞ Ω (For terminal 5-7, 6-8) OFF : ∞ Ω (For terminal 1-5, 2-6) 0 Ω (For terminal 5-7, 6-8)
Accel dial	 CN-142	-	※ Check resist Normal : About 5kΩ (For terminal A-C) ※ Check voltage Normal : About 5V (For terminal A-C) : 2~4.5V (For terminal C-B)
Head lamp, Work lamp, Cab lamp Room lamp	 CL-1 CL-3 CL-4 CL-5 CL-6 CL-8 CL-9	24V 70W (H3 Type) 24V 10W (Room lamp)	※ Check disconnection 24V 70W : About 10 Ω 24V 10W : About 50 Ω

Part name	Symbol	Specifications	Check
Switch	 <p>CS-67</p>	24V 8A	※ Check disconnection Normal : 1.0 Ω ON : 0 Ω (For terminal 1-5, 2-6) ∞ Ω (For terminal 5-7, 6-8) OFF : ∞ Ω (For terminal 1-5, 6-8) 0 Ω (For terminal 5-7, 6-8)
Beacon lamp	 <p>CL-7</p>	21V 70W (H1 type)	※ Check disconnection Normal : 1.1 Ω
Fuel filler pump	 <p>CN-61</p>	24V 10A 35 l /min	※ Check resistance Normal : 1.0 Ω
Hour meter	 <p>CN-48</p>	16~32V	※ Check operation Supply power(24V) to terminal No.2 and connect terminal No.1 and ground
Horn	 <p>CN-20 CN-25</p>	DC22~28V 2A	※ Check operation Supply power(24V) to each terminal and connect ground.
Safety switch 1	 <p>CS-4</p>	24V 15A (N.C TYPE)	※ Check contact Normal : 0 Ω (For terminal 1-2) ∞ Ω (For terminal 1-3) Operating : ∞ Ω (For terminal 1-2) 0 Ω (For terminal 1-3)

Part name	Symbol	Specifications	Check
Safety switch 2, wiper cut switch	 <p>CS-20 CS-53</p>	24V (N.C TYPE)	※ Check contact Normal : 0 Ω (One pin to ground)
Receiver dryer	 <p>CN-29</p>	24V 2.5A	※ Check contact Normal : ∞ Ω
Cassette radio	 <p>CN-27</p>	24V 2A	※ Check voltage 20~25V (For terminal 10-14, 11-14)
Washer pump	 <p>CN-22</p>	24V 3.8A	※ Check contact Normal : 10.7 Ω (For terminal 1-2)
Wiper motor	 <p>CN-21</p>	24V 2A	※ Check disconnection Normal : 7 Ω (For terminal 2-6)
DC/DC Converter	 <p>CN-138</p>	12V 3A	24V(A-B) 12V(B-C)

Part name	Symbol	Specifications	Check
Cigar lighter	 <p>CL-2</p>	24V 5A 1.4W	※ Check coil resistance Normal : About 1MΩ ※ Check contact Normal : ∞ Ω Operating time : 5~15sec
Alternator	 <p>CN-74</p>	Delco Remy 24V 55A	※ Check contact Normal : 0 Ω (For terminal B ⁺ -I) Normal : 24~27.5V
Starter	 <p>CN-45</p>	Denso 24V 7.5kW	※ Check contact Normal : 0.1 Ω
Travel alarm buzzer	 <p>CN-81</p>	24V 0.5A	※ Check contact Normal : 5.2 Ω
Aircon compressor	 <p>CN-28</p>	24V 79W	※ Check contact Normal : 13.4 Ω
Start relay	 <p>CR-23</p>	24V 300A	※ Check contact Normal : 0.94 Ω (For terminal 1-2)

Part name	Symbol	Specifications	Check
Blower motor		24V 9.5A	※ Check resistance Normal : 2.5 Ω (For terminal 1-2)
Aircon resistor		-	※ Check resistance Normal : 1.12 Ω (For terminal 4-2) 2.07 Ω (For terminal 2-3) 3.17 Ω (For terminal 3-1)
Duct sensor		1°C OFF 4°C ON	※ Check resistance Normal : 0 Ω (For terminal 1-2), the atmosphere temp : Over 4°C
Door switch		24V 2W	※ Check resistance Normal : About 5MΩ
Fusible link		60A	※ Check disconnection normal : 0 Ω (Connect ring terminal and check resist between terminal 1 and 2)
Switch (Power max, one touch decel, breaker, horn)		24V 6A	※ Check resistance Normal : ∞ Ω

Part name	Symbol	Specifications	Check
Transducer (Pump 1, 2)		500bar	0bar : 1V(For terminal 1-2) 500bar : 5V(For terminal 1-2)
Transducer (Pump 3)		50bar	0bar : 1V(For terminal 1-2) 50bar : 5V(For terminal 1-2)
Glow plug relay		24V 200A	※ Check contact Normal : 0.94 Ω (For terminal 1-GND)
Glow plug		24V 200A	※ Check resistance 0.25 ~ 0.12 Ω