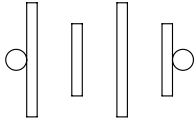
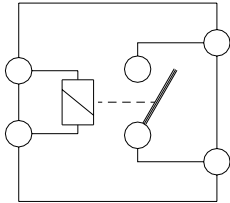
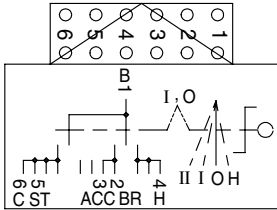
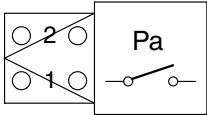
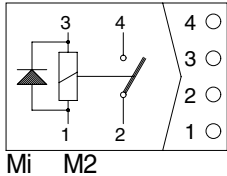
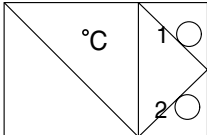
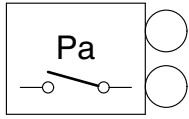
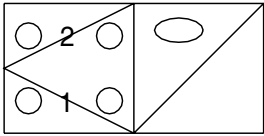
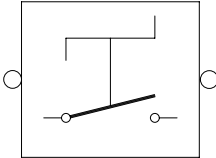
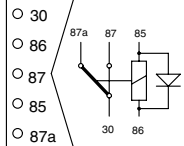
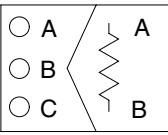
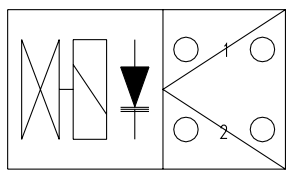
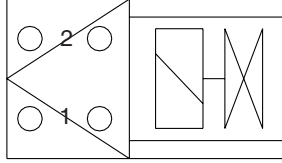
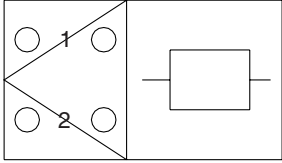
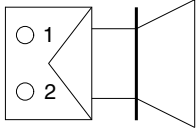
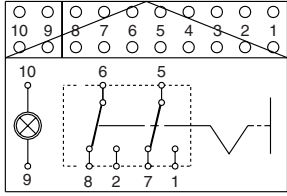
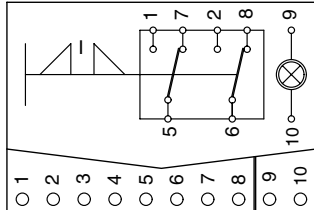
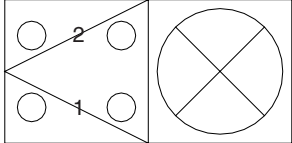
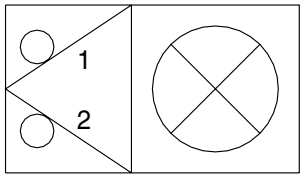
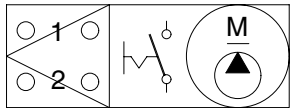
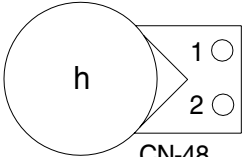
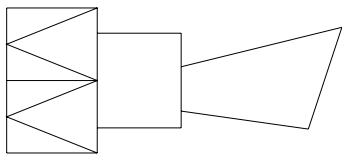
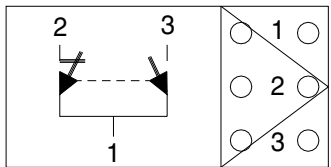
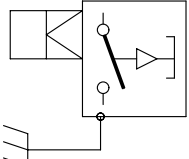


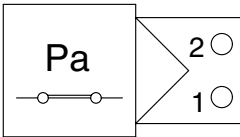
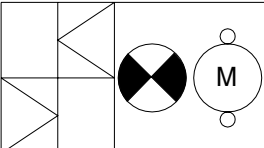
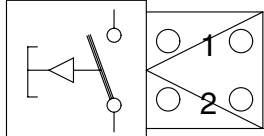
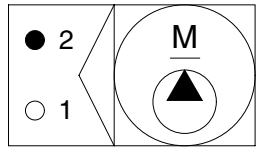
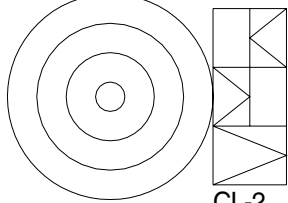
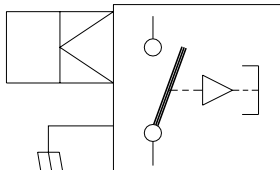
## GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

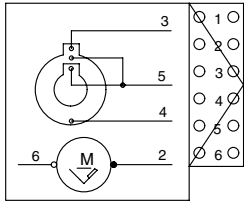
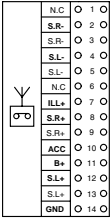
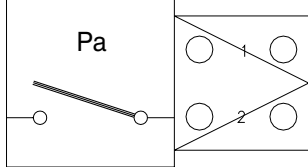
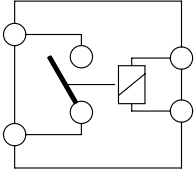
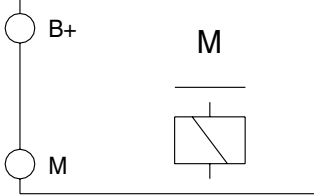
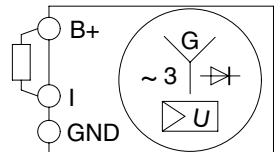
Part name	Symbol	Specification	Check
Battery		12V × 80Ah (2EA)	※ Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging
Battery relay	 <p style="text-align: center;">CR-1</p>	Rated load : 24V 100A(continuity) 1000A(30seconds)	※ Check coil resistance (M4 to M4) Normal : About 50 Ω ※ Check contact Normal : ∞ Ω
Start key	 <p style="text-align: center;">CS-2</p>	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 (For auto idle, stop lamp overload working brake)	 <p style="text-align: center;">CD-4    CD-31 CD-7    CD-38</p>	3 ~ 6 kgf/cm <sup>2</sup> (N.O TYPE)	※ Check contact Normal : ∞(OPEN)
Relay (Air con)	 <p style="text-align: center;">Mi    M2</p>	24V 20A	※ Check resistance Normal : About 200 Ω (For terminal 1-3) 0 Ω (For terminal 2-4)
Temperature sensor (Hydraulic)	 <p style="text-align: center;">CD-1</p>	-	※ Check resistance 50° C : 804 Ω 80° C : 310 Ω 100° C : 180 Ω

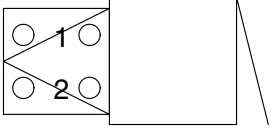
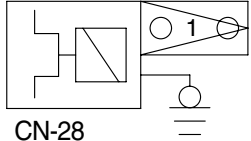
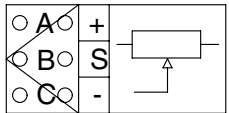
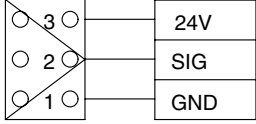
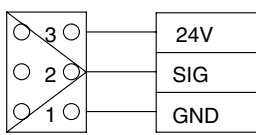
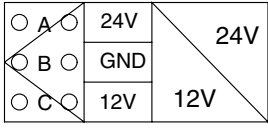
Part name	Symbol	Specification	Check
Air cleaner pressure switch	 CD-10	Pressure: 635mmH <sub>2</sub> O (N.O TYPE)	※ Check contact Normal : ∞ Ω
Fuel sender	 CD-2	-	※ Check resistance Full : 50 Ω      6/12 : 350 Ω 11/12 : 100 Ω    5/12 : 400 Ω 10/12 : 150 Ω    4/12 : 450 Ω 9/12 : 200 Ω     3/12 : 500 Ω 8/12 : 250 Ω     2/12 : 550 Ω 7/12 : 300 Ω     1/12 : 600 Ω Empty warning : 700 Ω
Master switch	 CS-74	6 ~ 36V	※ Check disconnection Normal : 0.1 Ω
Relay-5P	 CR-2 CR-12 CR-30 CR-46 CR-3 CR-13 CR-35 CR-62 CR-5 CR-14 CR-36 CR-63 CR-7 CR-29 CR-45 CR-66	24V 16A	※ Check resistance Normal : About 160 Ω (For terminal 85-86) : 0 Ω (For terminal 30-87a) : ∞ Ω (For terminal 30-87)
Resistor	 CN-173 CN-174	4W	※ Check resistance A-B 120 Ω
Solenoid valve	 CN-66 CN-68 CN-69 CN-70 CN-71 CN-73 CN-88 CN-122 CN-123 CN-133 CN-137 CN-181	24V 1A	※ Check resistance Normal : 15~25 Ω (For terminal 1-2)

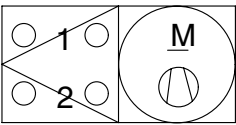
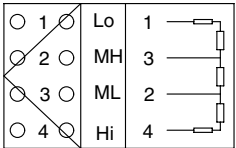
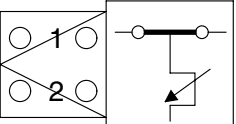
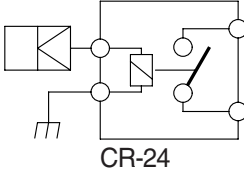
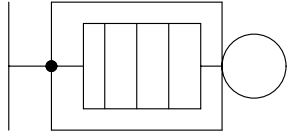
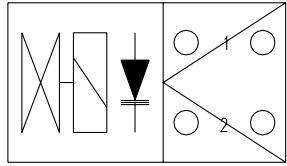
Part name	Symbol	Specification	Check
EPPR valve	 CN-75	700mA	※ Check resistance Normal : 18~25 Ω (For terminal 1-2)
Resistor	 CN-47	50 Ω 20W ± 5%	※ Check resistance Normal : 50 Ω
Speaker	 CN-23(LH) CN-24(RH)	4 Ω 20W	※ Check resistance Normal : 4 Ω
Switch (Locking type)	 CS-23 CS-27 CS-50 CS-54 CS-81 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)
Switch (Quick clamp)	 CS-67	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)
Work lamp, Cab lamp, Number plate	 CL-5 CL-6 CL-8 CL-9 CL-21	24V 70W (H3 TYPE)	※ Check disconnection Normal : 1.2 Ω

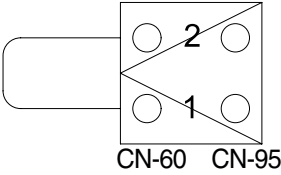
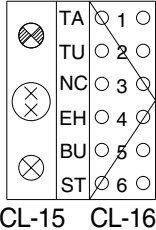
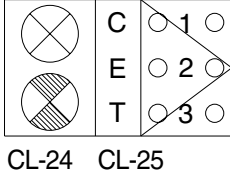
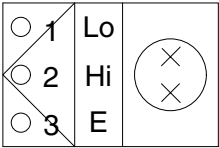
Part name	Symbol	Specification	Check
Room lamp	 <p>CL-1</p>	24V 10W	※ Check disconnection Normal : A few Ω
Fuel filler pump	 <p>CN-61</p>	24V 10A 35 l /min	※ Check resistance Normal : 1.0 Ω
Hour meter	 <p>CN-48</p>	16 ~ 32V	※ Check operation · Supply power(24V) to terminal No. 2 and connect terminal No. 1 and ground.
Horn	 <p>CN-20 CN-25</p>	DC 22.0 ~ 28.0V 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)
Safety switch 2, Wiper cut switch	 <p>CS-20 CS-53</p>	24V (N.O TYPE)	※ Check contact Normal : 0 Ω (one pin to ground)

Part name	Symbol	Specification	Check
Pressure switch (Breaker,T/M)	 <p>CD-3 CD-5</p>	10bar (N.C type)	※ Check contact Normal : 0.1 Ω
Beacon lamp	 <p>CL-7</p>	24V 70W	※ Check disconnection Normal : 1.1 Ω
Switch (Power max, one touch decel, breaker, horn)	 <p>CS-5 CS-19 CS-26 CS-26A CS-29</p>	24V 6A	※ Check contact Normal : ∞ Ω
Washer pump	 <p>CN-22</p>	24V 3.8A	※ Check contact Normal : 10.7 Ω (For terminal 1-2)
Cigar lighter	 <p>CL-2</p>	24V 5A 1.4W	※ Check coil resistance Normal : About 1MΩ ※ Check contact Normal : ∞ Ω Operating time : 5~15sec
Door switch	 <p>CS-1</p>	24V 2W	※ Check resistance Normal : About 5MΩ

Part name	Symbol	Specification	Check
Wiper motor	 <p>CN-21</p>	24V 2A	※ Check contact Normal : 7 Ω (For terminal 2-6)
Cassette radio	 <p>CN-27</p>	24V 2A	※ Check voltage 20 ~ 25V (For terminal 10-14,11-14)
Receiver dryer	 <p>CN-29</p>	24V 2.5A	※ Check contact Normal : 0 Ω
Start relay	 <p>CR-23</p>	24V 300A	※ Check contact Normal : 0.94 Ω (For terminal 1-2)
Starter	 <p>CN-45</p>	Denso 24V 4.5kW	※ Check contact Normal : 0.1 Ω
Alternator	 <p>CN-74</p>	Delco Remy 24V 55A	※ Check contact Normal : 0 Ω (For terminal B+-I) Normal : 24~27.5V

Part name	Symbol	Specification	Check
Travel alarm buzzer	 CN-81	24V 0.5A	※ Check contact Normal : 5.2 Ω
Aircon compressor	 CN-28	24V 79W	※ Check contact Normal : 13.4 Ω
Accel dial	 CN-142	-	※ Check resistance Normal : About 5kΩ (For terminal A-C) ※ Check voltage Normal : About 5V (For terminal A-C) : 2 ~ 4.5V (For terminal C-B)
Transducer (Pump 1,2)	 CD-42 CD-43	500 bar	0bar : 1V(For terminal 1-2) 500bar : 5V(For terminal 1-2)
Transducer (Pump 3)	 CD-44	50 bar	0bar : 1V(For terminal 1-2) 50bar : 5V(For terminal 1-2)
DC/DC Converter	 CN-138	12V 3A	24V(A-B) 12V(B-C)

Part name	Symbol	Specification	Check
Blower motor		24V 9.5A	※ Check resistance 2.5 Ω (For terminal 1-2)
Aircon resistor		-	※ Check resistance 1.12 Ω (For terminal 4-2) 2.07 Ω (For terminal 2-3) 3.17 Ω (For terminal 3-1)
Duct sensor (Switch)		1°C OFF 4°C ON	※ Check resistance : 0 Ω (For terminal 1-2) the atmosphere temp : over 4°C
Preheater relay		24V 200A	※ Check contact Normal : 0.94 Ω (For terminal 1-GND)
Preheater		24V 200A	※ check resistance : 0.25 ~ 0.12 Ω
Quick clamp		24V 6A	※ Check contact Normal : 28.9MΩ (For terminal 1-2)

Part name	Symbol	Specification	Check
Fusible link		60A	※ Check disconnection Normal : 0 Ω (Connect ring terminal and check resist between terminal 1 and 2)
Rear combination lamp-LH,RH		24V 21W×3 24V 10W	※ Normal : 4.8 Ω (For terminal 1-4) Normal : 2.1 Ω (For terminal 2-4, 4-5, 4-6)
Front combination lamp-LH, RH		24V 21W 24V 10W	※ Normal : 4.8 Ω (For terminal 1-2) Normal : 2.1 Ω (For terminal 2-3)
Head lamp -LH, RH		24V 75/70W	※ Normal : 1.0 Ω (For terminal 1-3, 2-3) Normal : 1.5 Ω (For terminal 1-2)