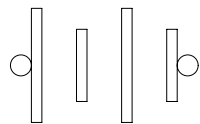
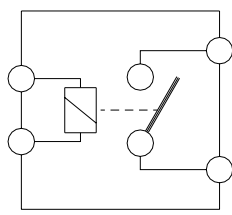
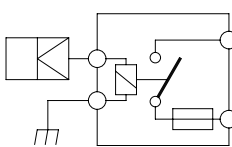
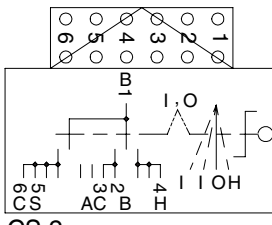
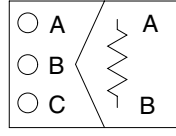
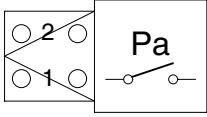
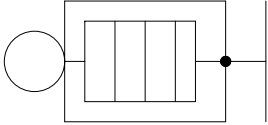
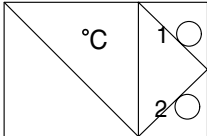
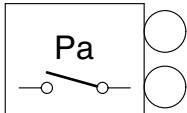
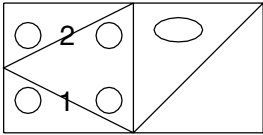
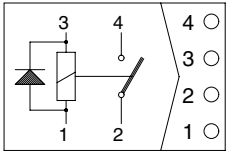
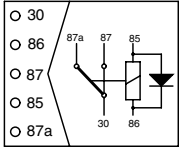
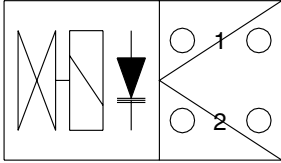
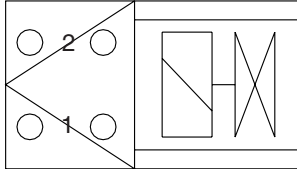
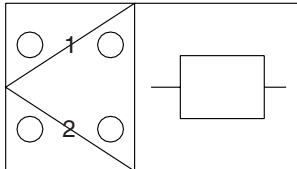
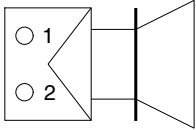
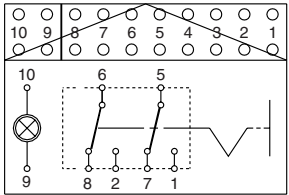
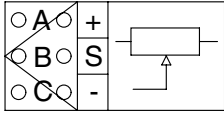
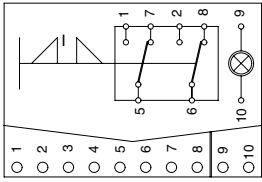
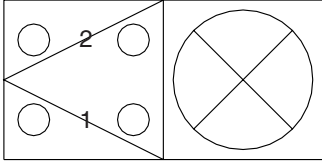
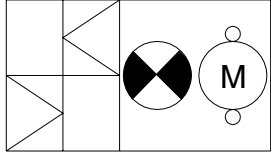
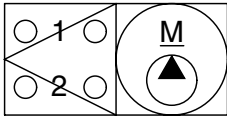
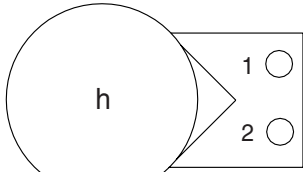


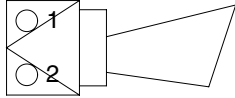
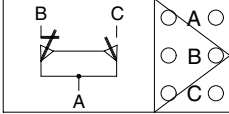
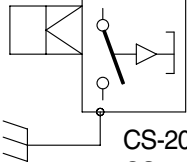
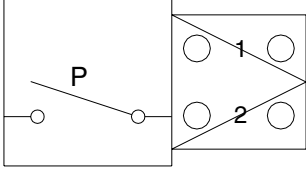
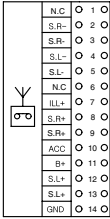
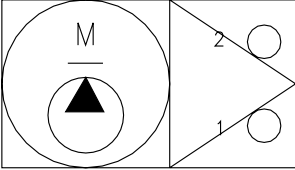
## GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

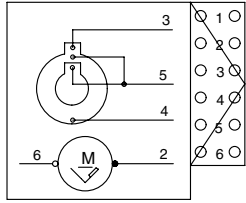
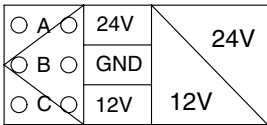
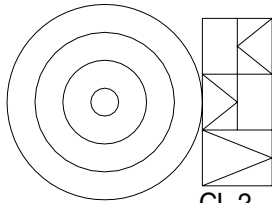
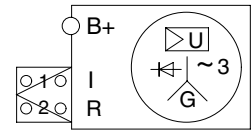
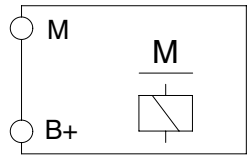
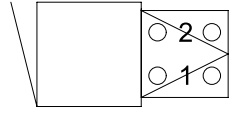
Part name	Symbol	Specifications	Check
Battery		12V × 80Ah (2EA)	※ Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging
Battery relay	 <p style="text-align: center;">CR-1</p>	Rated load : 24V 100A(continuity) 1000A(30seconds)	※ Check coil resistance(M4 to M4) Normal : About 50 Ω ※ Check contact Normal : ∞ Ω
Preheat relay	 <p style="text-align: center;">CR-24</p>	24V 200A	※ Check contact Normal : 0.942 Ω (For terminal 1-GND)
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)
Resistor	 <p style="text-align: center;">CN-98 CN-99</p>	4W	※ Check resistance A-B 120 Ω

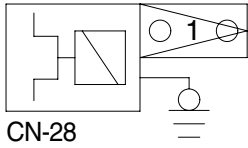
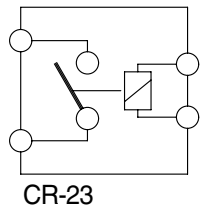
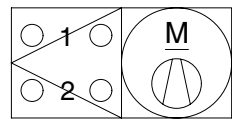
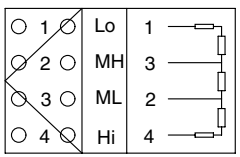
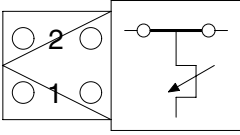
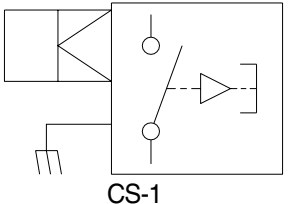
Part name	Symbol	Specifications	Check
Pressure switch (For travel alarm, overload)	 <p>CD-11 CD-12 CD-13 CD-14 CD-31</p>	3~6kgf/cm <sup>2</sup> (N.O TYPE)	※ Check contact Normal : ∞ Ω
Pre heater	 <p>CN-80</p>	24V 200A	※ Check resistance 0.25~0.12 Ω
Temperature sensor (Hydraulic)	 <p>CD-1</p>	-	※ Check resistance 50°C : 804 Ω 80°C : 310 Ω 100°C : 180 Ω
Air cleaner pressure switch	 <p>CD-10</p>	Pressure : 635mmH <sub>2</sub> O (N.O TYPE)	※ 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 (Air con)	 <p>Mi M2</p>	24V 20A	※ Check resistance Normal : About 200 Ω (For terminal 1-3) 0 Ω (For terminal 2-4)

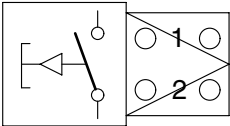
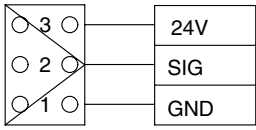
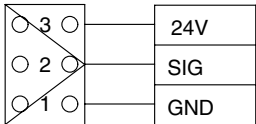
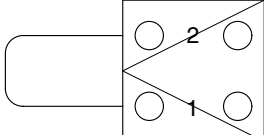
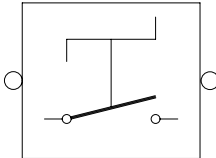
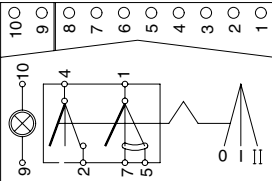
Part name	Symbol	Specifications	Check
Relay	 <p>CR-2 CR-3 CR-5 CR-7 CR-13 CR-35 CR-36 CR-45 CR-46 CR-62</p>	24V 16A	※ Check resistance Normal : About 160 Ω (For terminal 85-86) 0 Ω (For terminal 30-87a) ∞ Ω (For terminal 30-87)
Solenoid valve	 <p>CN-66 CN-68 CN-70 CN-88 CN-140</p>	24V 1A	※ Check resistance Normal : 15~25 Ω (For terminal 1-2)
EPPR valve	 <p>CN-75</p>	700mA	※ Check resistance Normal : 15~25 Ω (For terminal 1-2)
Resistor	 <p>CN-47</p>	50 Ω 20W±5%	※ Check resistance Normal : 50 Ω
Speaker	 <p>CN-23(LH) CN-24(RH)</p>	20W	※ Check resistance Normal : A few Ω
Switch (Locking type)	 <p>CS-23 CS-24 CS-27 CS-54 CS-82 CS-83 CS-84</p>	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)

Part name	Symbol	Specifications	Check
Accel dial	 <p>CN-142</p>	-	※ Check resist Normal : About 5k Ω (For terminal A-C) ※ Check voltage Normal : About 5V (For terminal A-C) : 2~4.5V (For terminal C-B)
Switch (Quick clamp)	 <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)
Head lamp, Work lamp, Room lamp, Cab lamp	 <p>CL-1 CL-4 CL-5 CL-6 CL-8 CL-9</p>	24V 65W (H3 Type) 24V 10W (Room lamp)	※ Check disconnection Normal : 1.2 Ω : A few Ω (Room lamp)
Beacon lamp	 <p>CL-7</p>	21V 70W (H1 type)	※ 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

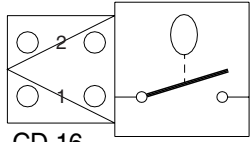
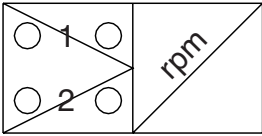
Part name	Symbol	Specifications	Check
Horn	 CN-20 CN-25	DC22~28V 2A	※ Check operation Supply power(24V) to each terminal and connect ground.
Safety switch 1	 CS-4	24V 15A (N.C TYPE)	※ Check contact Normal : 0 Ω (For terminal A-B) ∞ Ω (For terminal A-C) Operating : ∞ Ω (For terminal A-B) 0 Ω (For terminal A-C)
Safety switch 2, Wiper cut switch	 CS-20 CS-53	24V (N.O TYPE)	※ Check contact Normal : 0 Ω (One pin to ground)
Receiver dryer	 CN-29	24V 2.5A	※ Check contact Normal : ∞ Ω
Cassette radio	 CN-27	24V 2A	※ Check voltage 20~25V (For terminal 10-14, 11-14)
Washer pump	 CN-22	24V 3.8A	※ Check contact Normal : 10.7 Ω (For terminal 1-2)

Part name	Symbol	Specifications	Check
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)
Cigar lighter	 <p>CL-2</p>	24V 5A 1.4W	※ Check coil resistance Normal : About 1M Ω ※ Check contact Normal : ∞ Ω Operating time : 5~15sec
Alternator	 <p>CN-74</p>	Mitsubishi 24V 50A	※ Check contact Normal : 0 Ω (For terminal B <sup>+</sup> -I) Normal : 24~27.5V
Starter	 <p>CN-45</p>	Mitsubishi 24V 5.0kW	※ Check contact Normal : 0.1 Ω
Travel alarm	 <p>CN-81</p>	24V 0.5A	※ Check contact Normal : 5.2 Ω

Part name	Symbol	Specifications	Check
Aircon compressor	 CN-28	24V 79W	※ Check contact Normal : 13.4 Ω
Start relay	 CR-23	24V 300A	※ Check contact Normal : 0.94 Ω (For terminal 1-2)
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 (Switch)		1°C OFF 4°C ON	※ Check resistance Normal : 0 Ω (For terminal 1-2), the atmosphere temp : Over 4°C
Door switch	 CS-1	24V 2W	※ Check resistance Normal : About 5M Ω

Part name	Symbol	Specifications	Check
Switch (Power max, one touch decel, horn, breaker)	 CS-5 CS-19 CS-26 CS-29	24V 6A	※ Check resistance Normal : $\infty \Omega$
Transducer (Pump 1, 2)	 CD-42 CD-43	500bar	0bar : 1V(For terminal 1-2) 500bar : 5V(For terminal 1-2)
Transducer (Pump 3)	 CD-44	50bar	0bar : 1V(For terminal 1-2) 50bar : 5V(For terminal 1-2)
Fusible link	 CN-60 CN-95	60A	※ Check disconnection Normal : $0 \Omega$ (Connect ring terminal and check resist between terminal 1 and 2)
Master switch	 CS-74	6-36V	※ Check disconnection Normal : $0.1 \Omega$
Main light switch	 CS-21	24V 8A	※ Check contact OFF : $\infty \Omega$ (For terminal 1-5, 2-4)



Part name	Symbol	Specification	Check
Coolant level sensor	 <p>CD-16</p>	24V 0.5A	※ Check contact High level : $\infty \Omega$ Low level : $0 \Omega$
Tacho sensor	 <p>CD-17</p>	-	※ Check resistance Normal : $300 \Omega$ (For terminal 1,2)