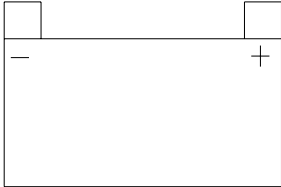
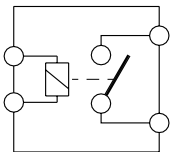
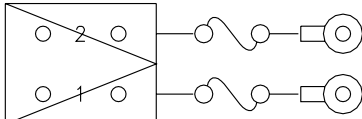
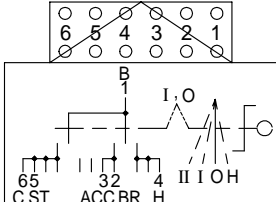
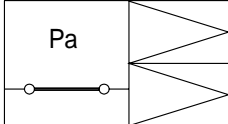
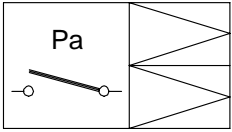
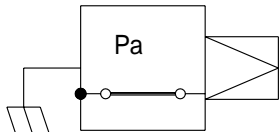
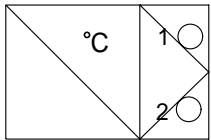
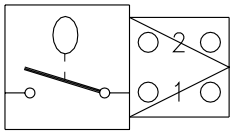
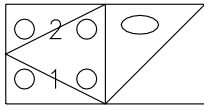
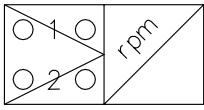
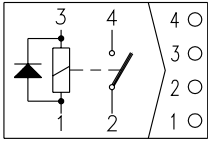
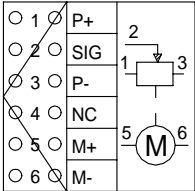
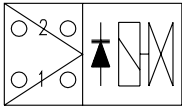
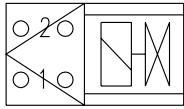
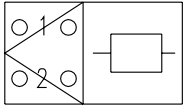
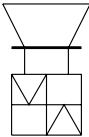
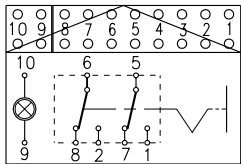
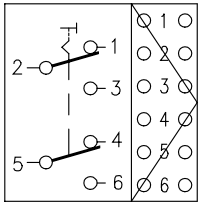
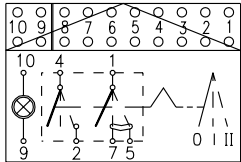
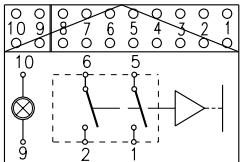
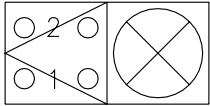
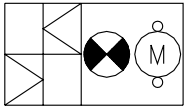


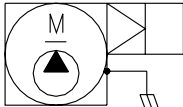
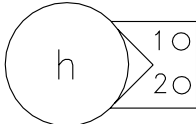
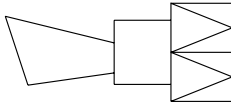
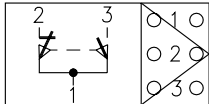
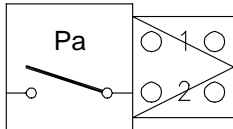
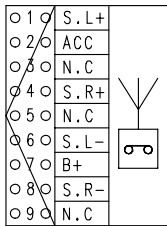
GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

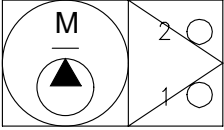
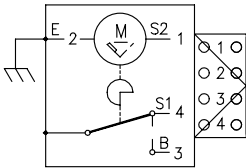
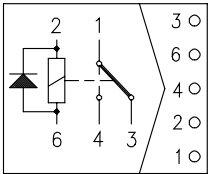
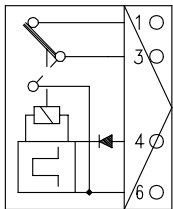
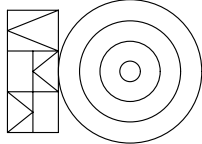
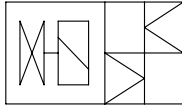
Part name	Symbol	Specifications	Check
Battery		12V × 160Ah (2EA)	※ Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging
Battery relay	 CR-1	Rated load : 24V 100A(Continuity) 1000A(30sec)	※ Check coil resistance(M4 to M4) Normal : About 50 Ω ※ Check contact Normal : ∞ Ω
Fusible link	 CN-60	24V 60A	※ Check disconnection Normal : About 0 Ω (For terminal 1-ring term, terminal 2-ring term)
Start key	 CS-2	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, 1-2) START : 0 Ω (For terminal 1-5)
Pressure switch (Auto idle, T/M, Brake)	 CD-3 CD-5 CD-6	10kg/cm ² (N.C TYPE)	※ Check contact Normal : 0.1 Ω

Part name	Symbol	Specifications	Check
Pressure switch (For stop lamp)	 CD-4 CD-38	4~6kg/cm ² (N. O TYPE)	※ Check contact Normal : ∞ Ω
Pressure switch (For engine oil)	 CD-18	0.5kg/cm ² (N. C TYPE)	※ Check resistance Normal : 0 Ω
Coolant temperature sensor	 CD-8	-	※ Check resistance 50°C : 800 Ω 80°C : 310 Ω 100°C : 180 Ω
Coolant level sensor	 CD-16	24V 0.5A	※ Check contact High level : ∞ Ω Low level : 0 Ω
Fuel sender	 CD-2	-	※ Check resistance Full : 100 Ω 5/6 : 200 Ω 4/6 : 300 Ω 3/6 : 400 Ω 2/6 : 500 Ω 1/6 : 600 Ω Empty warning : 700 Ω
Tacho sensor	 CD-3 CD-5 CD-6	-	※ Check resistance Normal : 300 Ω (For terminal 1-2)

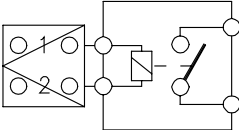
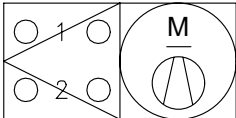
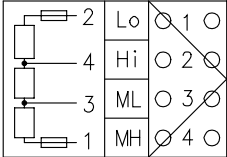
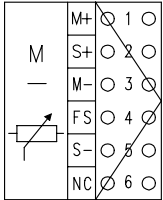
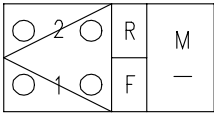
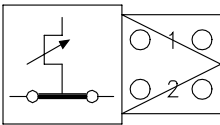
Part name	Symbol	Specifications	Check
Relay	 CR-2 CR-5 CR-30 ACRY1 ACRY2	24V 20A	※ Check resistance Normal : About 200 Ω (For terminal 1-3) ∞ Ω (For terminal 2-4)
Accel actuator	 CN-76	-	※ Check resistance Normal : 1~2 Ω (For terminal 5-6) 0.8~1.2k Ω (For terminal 1-3)
Solenoid valve	 CN-66 CN-68 CN-69 CN-70 CN-71 CN-72 CN-87 CN-88 CN-89 CN-122 CN-123	24V 1A	※ Check resistance Normal : 15~25 Ω (For terminal 1-2)
EPPR valve	 CN-75 CN-124	700mA	※ Check resistance Normal : 15~25 Ω (For terminal 1-2)
Resistor	 CN-47	50 Ω	※ Check resistance Normal : 45~55 Ω
Speaker	 CN-23(LH) CN-24(RH)	20W	※ Check resistance Normal : 3~5 Ω

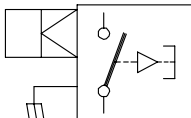
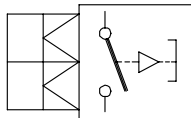
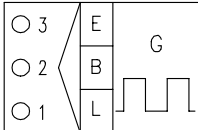
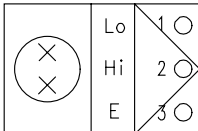
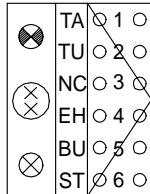
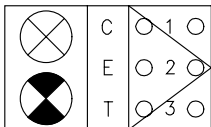
Part name	Symbol	Specifications	Check
Switch (Locking type)	 <p>CS-17,CS-18,CS-23,CS-25,CS-27, CS-36,CS-41,CS-50,CS-54,CS-67</p>	24V 8A	※ Check contact Normal ON : 0 Ω (For terminal 1-5, 2-6) ∞ Ω (For terminal 5-7, 6-8) OFF : ∞ Ω (For terminal 1-5, 2-6) 0 Ω (For terminal 5-7, 6-8)
Prolix switch	 <p>CS-7</p>	24V 15A	※ Check contact Normal : 0 Ω (For terminal 1-5, 2-6) Emergency ON : 0 Ω (For terminal 1-2, 4-5) ∞ Ω (For terminal 2-3, 5-6) OFF : ∞ Ω (For terminal 1-2, 4-5) 0 Ω (For terminal 2-3, 5-6)
Switch (Locking type)	 <p>CS-21</p>	24V 8A	※ Check contact ON : 0 Ω (For terminal 1-5, 2-4) OFF : ∞ Ω (For terminal 1-5, 2-4)
Switch (Non-locking type)	 <p>CS-22</p>	24V 8A	※ Check resistance 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, 2-6) 0 Ω (For terminal 5-7, 6-8)
Work lamp, Room lamp, Numberplate lamp	 <p>CL-1 CL-5 CL-6 CL-21</p>	24V 70W (H3 Type) 24V 10W (Room lamp)	※ Check disconnection Normal : A few Ω
Beacon lamp	 <p>CL-7</p>	24V 70W (H1 Type)	※ Check disconnection Normal : A few Ω

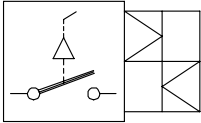
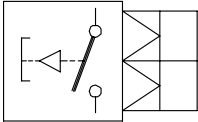
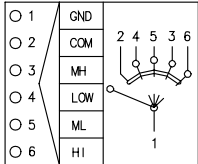
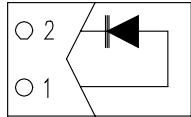
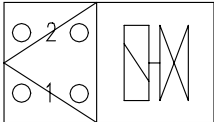
Part name	Symbol	Specifications	Check
Fuel filler pump	 CN-61	24V 10A 35 l /min	※ Check operation Supply power(24V) to terminal 1 pin Connect ring terminal with ground and turn the operation switch ON.
Hour meter	 CN-48	16~32V	※ Check operation Supply power(24V) to terminal No.2 and connect terminal No.1 to ground.
Horn	 CN-20 CN-25	DC 22~28V 2A	※ Check operation Supply power(24V) to each terminal and connect ground.
Safety switch	 CS-4	24V 15A	※ 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)
Receiver dryer	 CN-29	24V 2.5A	※ Check contact Normal : ∞ Ω
Cassette radio	 CN-27	24V 2A	※ Check resistance Power on 15W+15W, 4 Ω +4 Ω (For terminal 1-6, 4-8) 20~25V (For terminal 7-GND, 2-GND)

Part name	Symbol	Specifications	Check
Washer pump	 CN-22	24V 3.8A	※ Check contact Normal : 10.7 Ω (For terminal 1-2)
Wiper motor	 CN-21	24V 2A	※ Check disconnection Normal : 10.5 Ω (For terminal 1-2) Washer spray : 0.2 Ω (For terminal 1-4) Wiper operating : 24V(For terminal 1-4) : 0V(For terminal 2-GND)
Relay	 CR-4	24~32V 16A	※ Check resistance Normal : About 200 Ω (For terminal 2-6) : 0 Ω (For terminal 1-3) : ∞ Ω (For terminal 1-4)
Intermittent wiper relay	 CR-6	20~30V 5A	※ Check contact Normal : 0 Ω (For terminal 1-3)
Cigar lighter	 CL-2	24V 5A 1.4W	※ Check coil resistance Normal : About 1M Ω ※ Check contact Normal : ∞ Ω Operating time : 5~15sec
Ether	 CN-78	24V 15A	※ Check contact Normal : 1.1 Ω

Part name	Symbol	Specifications	Check
Hydraulic temperature	 CD-1	-	※ Check resistance 50°C : 800 Ω 80°C : 310 Ω 100°C : 180 Ω 120°C : 100 Ω
Alternator	 CN-74	24V 55A	※ Check contact Normal : 0 Ω (For terminal B ⁺ - I) Normal : 24~27.5V
Starter	 CN-45	DELCO REMY 28MT 24V	※ Check contact Normal : 0.1 Ω
Back buzzer	 CN-65	24V 0.5A	※ Check contact Normal : 5.2 Ω
Fuel cut-off	 CN-79	24V 25W	※ Check resistance Normal : 15~25 Ω
Aircon compressor	 CN-28	24V 79W	※ Check contact Normal : 13.4 Ω

Part name	Symbol	Specifications	Check
Start relay	 <p>CR-23</p>	24V 300A	※ Check contact Normal : 0.94 Ω (For terminal 1-2)
Blower		24V 9A	-
Aircon resistor		24~28V	※ Check contact Normal : 0.9 Ω (For terminal 2-4) : 3.3 Ω (For terminal 1-3) : 5.4 Ω (For terminal 1-4) : 5.7 Ω (For terminal 1-2)
Mode actuator & Temp actuator		9~16V 300mA max	-
Intake actuator		22V~30V	※ Check resistance Normal : 2.0 Ω (For terminal 1-2)
Thermostat		-	※ Working temperature of contact Point : AC ON → 4.5°C AC OFF → 1.5°C Differential of temperature → 3°C Rated input volt : 24V

Part name	Symbol	Specifications	Check
Door switch	 CS-1	24V 2W	※ Check resistance Normal : About 5M Ω
Horn switch	 CS-5	24V 6A	※ Check contact Normal : 15M Ω
Flasher unit	 CR-11	24V 85C/M	-
Head lamp	 CL-3 CL-4	24V 75/70W	※ Check resistance Normal : 1.0 Ω (For terminal 1-3,2-3) 1.5 Ω (For terminal 1-2)
Rear combi lamp	 CL-15 CL-16	24V P27W × 2 24V P21/10W	-
Front combi lamp	 CL-24 CL-25	24V 21W 24V 10W	※ Check resistance Normal : 2.1 Ω (For terminal 2-3) 4.8 Ω (For terminal 1-2)

Part name	Symbol	Specifications	Check
Pedal switch	 <p>CS-26</p>	224V 15A	※ Check resistance Normal ON : 0 Ω (For terminal)
Power max switch	 <p>CS-29</p>	24V 6A	※ Check contact Normal : 15M Ω
Blower switch	 <p>CS-58</p>	-	※ Check resistance Low : 0 Ω (For terminal 1-4) ML : 0 Ω (For terminal 1-5) MH : 0 Ω (For terminal 1-3) MI : 0 Ω (For terminal 1-6) COM : 0 Ω (For terminal 1-2)
Diode		600V, 3A	-
Quick coupling	 <p>CN-140</p>	24V, 6A	※ Check resistance Normal : 28.9 Ω (For terminal 1-2)