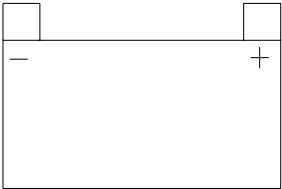
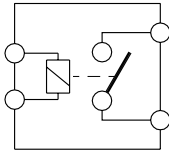
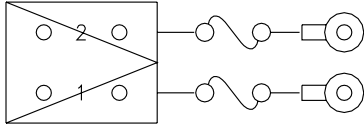
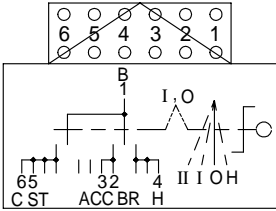
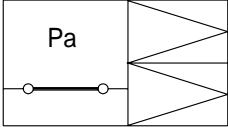
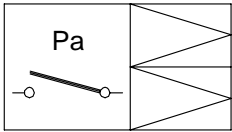
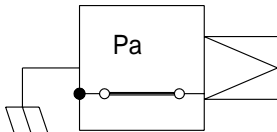
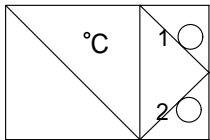
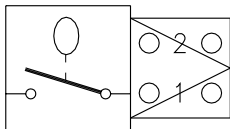
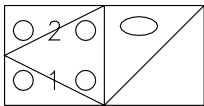
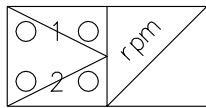
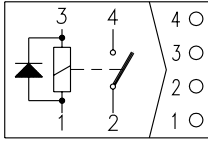
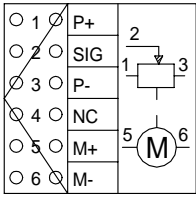
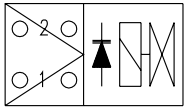
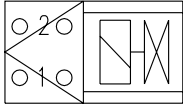
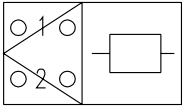
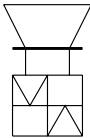
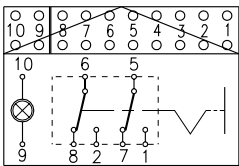
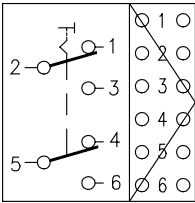
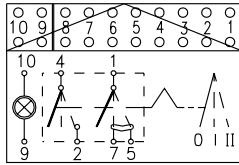
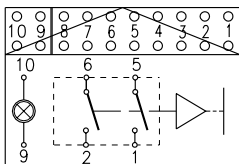
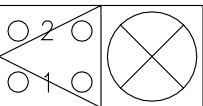
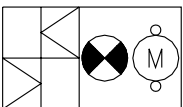


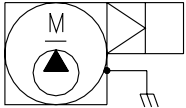
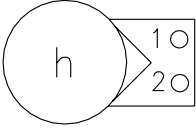
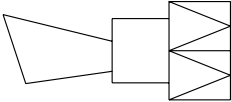
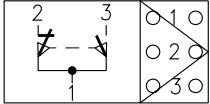
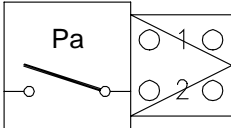
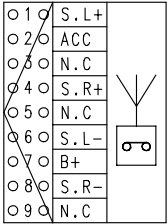
GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

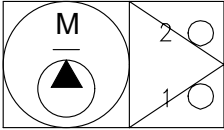
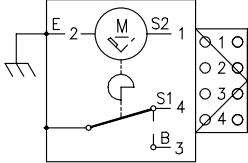
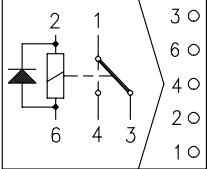
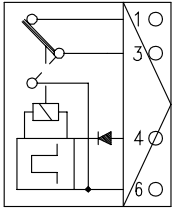
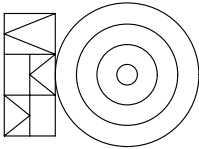
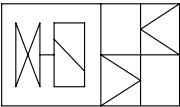
| Part name | Symbol | Specifications | Check |
|---|---|--|--|
| Battery |  | 12V × 100Ah (2EA) | ※ Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging |
| Battery relay |  CR-1 | Rated load : 24V 100A(Continuity) 1000A(30sec) | ※ Check coil resistance(M4 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-6 CD-3 CD-7 CD-5 | 10kg/cm ² (N.C TYPE) | ※ Check contact Normal : 0.1 Ω |

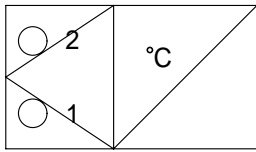
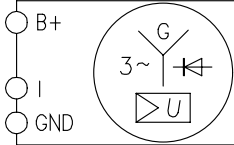
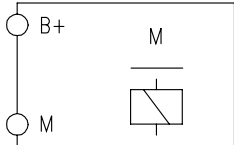
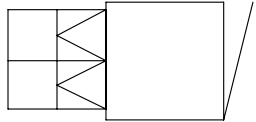
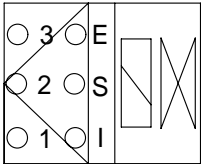
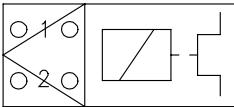
| Part name | Symbol | Specifications | Check |
|-------------------------------------|--|--------------------------------------|--|
| Pressure switch (For stop lamp) |  CD-4 | 4~6kg/cm ² (N. O TYPE) | ※ Check contact Normal : ∞ Ω |
| Pressure switch (For engine oil) |  CD-18 | 0.5kg/cm ² (N. C TYPE) | ※ 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-17 | - | ※ Check resistance Normal : 300 Ω (For terminal 1-2) |

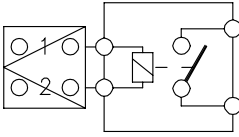
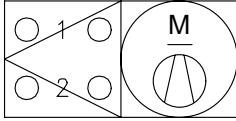
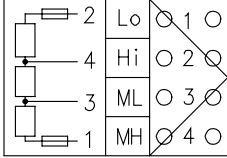
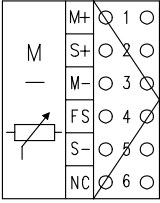
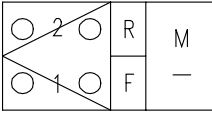
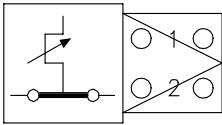
| Part name | Symbol | Specifications | Check |
|----------------|---|----------------|---|
| Relay |  CR-2 CR-5 | 24V 20A | ※ Check resistance Normal : About 200 Ω (For terminal 1-3) ∞ Ω (For terminal 2-4) |
| Accel actuator |  CN-76 | - | ※ Check resistance Normal : 1~2 Ω (For terminal 5-6) 0.8~1.2k Ω (For terminal 1-3) |
| Solenoid valve |  CN-66 CN-88 CN-68 CN-89 CN-72 CN-122 CN-123 | 24V 1A | ※ Check resistance Normal : 15~25 Ω (For terminal 1-2) |
| EPPR valve |  CN-75 | 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 |

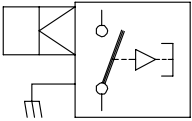
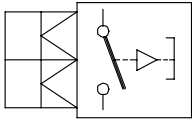
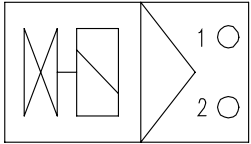
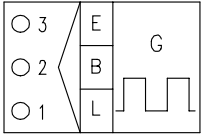
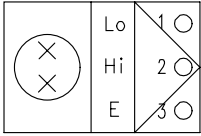
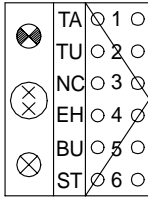
| Part name | Symbol | Specifications | Check |
|---|---|--|---|
| Switch (Locking type) |  <p>CS-17,CS-18,CS-23,CS-25,CS-27, CS-36,CS-41,CS-50,CS-54,CS-67</p> | 24V 8A | ※ Check contact Normal ON : 0 Ω (For terminal 1-5, 2-6) ∞ Ω (For terminal 5-7, 6-8) OFF : ∞ Ω (For terminal 1-5, 2-6) 0 Ω (For terminal 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 |

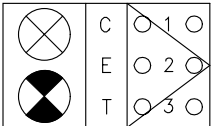
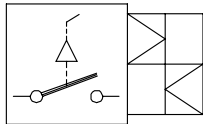
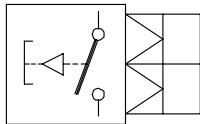
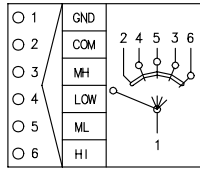
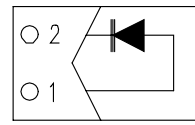
| Part name | Symbol | Specifications | Check |
|------------------|--|----------------------|--|
| Fuel filler pump |  CN-61 | 24V 10A 35 l /min | ※ Check operation Supply power(24V) to terminal 1 pin Connect ring terminal with ground and turn the operation switch ON. |
| Hour meter |  CN-48 | 16~32V | ※ 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 |  <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 : 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 |  <p>CR-4 CR-16 CR-17 CR-34 CR-36</p> | 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 |  <p>CR-6</p> | 20~30V 5A | ※ Check contact Normal : 0 Ω (For terminal 1-3) |
| 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 |
| Ether |  <p>CN-78</p> | 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 |  CR-23 | 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 temperaturer → 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 |
| Solenoid valve |  CN-67 CN-69 CN-70 CN-71 | 24V 6A | ※ Check resistance Normal : 28.9MΩ (For terminal 1-2) |
| 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 | - |

| Part name | Symbol | Specifications | Check |
|------------------|---|--------------------|---|
| Front combi lamp |  <p>CL-24 CL-25</p> | 24V 21W 24V 10W | ※ Check resistance Normal : 2.1 Ω (For terminal 2-3) 4.8 Ω (For terminal 1-2) |
| Pedal switch |  <p>CS-26</p> | 24V 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-17</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 |  <p>CN-140</p> | 600V, 3A | - |