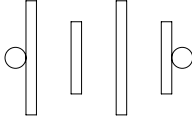
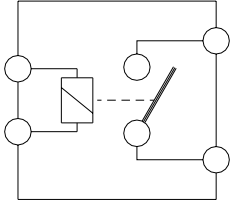
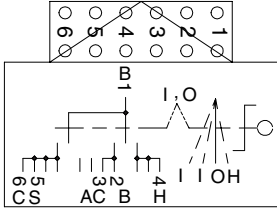
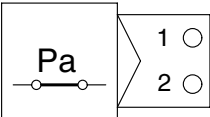
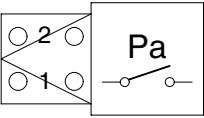
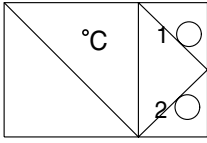
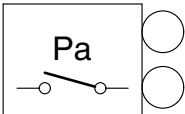
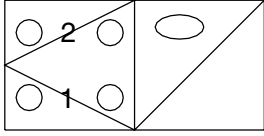
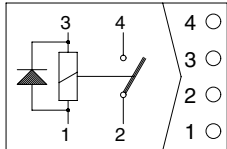
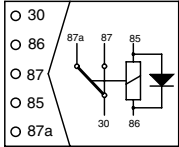
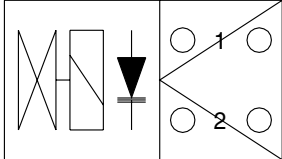
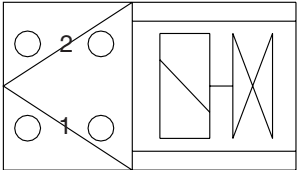
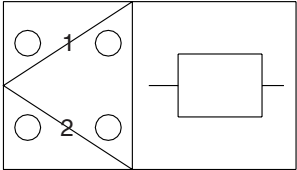
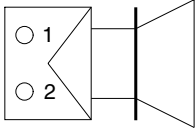
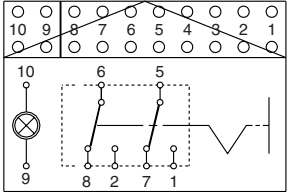
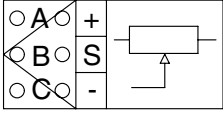
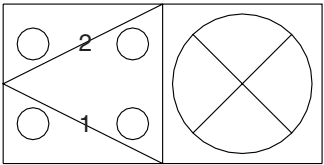
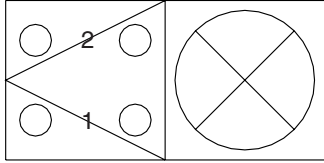
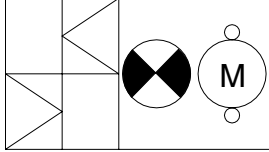
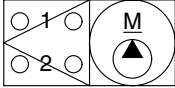
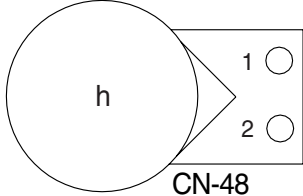
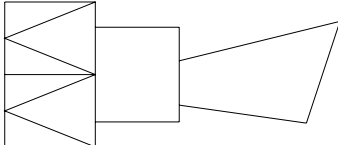
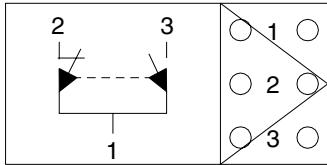


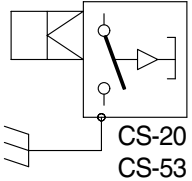
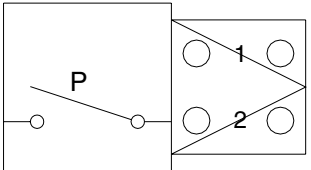
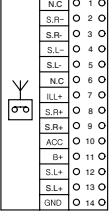
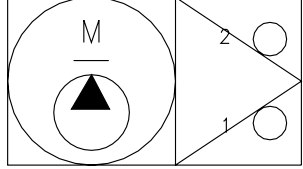
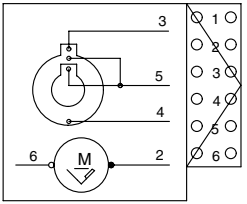
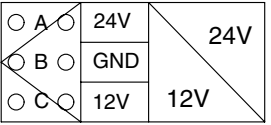
GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

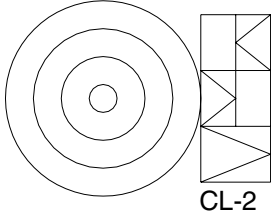
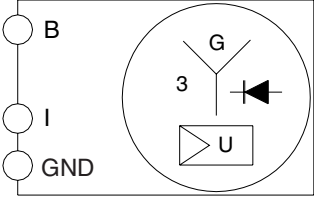
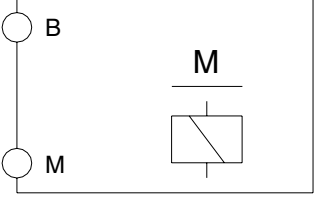
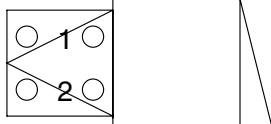
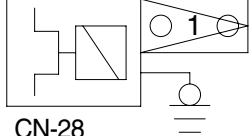
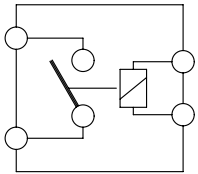
| Part name | Symbol | Specifications | Check |
|--------------------------------------|--|---|---|
| Battery |  | 12V × 160Ah (2EA) | ※ Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging |
| Battery relay |  <p style="text-align: center;">CR-1</p> | Rated 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-31</p> | 3~6kgf/cm ² (N.O TYPE) | ※ Check contact Normal : ∞ Ω |

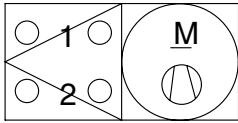
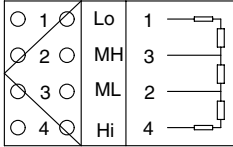
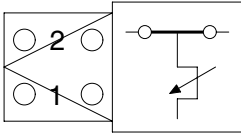
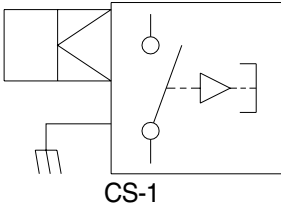
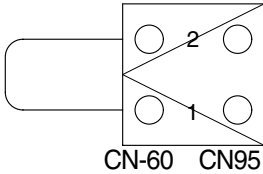
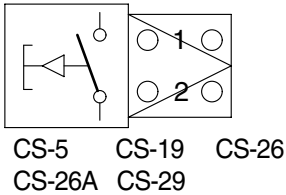
| Part name | Symbol | Specifications | Check |
|--------------------------------|--|----------------|---|
| Temperature sensor (Hydraulic) |  <p>CD-1</p> | - | ※ Check resistance 50°C : 804 Ω 80°C : 310 Ω 100°C : 180 Ω |
| Air cleaner pressure switch |  <p>CD-10</p> | - | ※ Check contact High level : ∞ 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-13, CR-45 CR-46, CR-62</p> | 24V 20A | ※ Check resistance Normal : About 200 Ω (For terminal 1-3) 0 Ω (For terminal 2-4) |
| Relay |  <p>CR-2 CR-5 CR-7 CR-35 CR-36</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</p> | 24V 1A | ※ Check resistance Normal : 15~25 Ω (For terminal 1-2) |

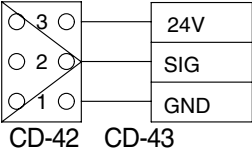
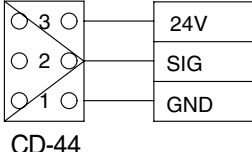
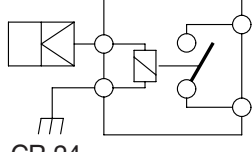
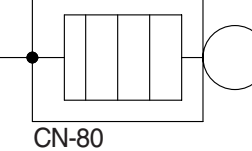
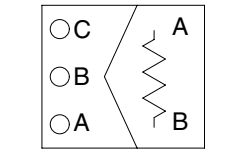
| Part name | Symbol | Specifications | Check |
|--------------------------------------|---|----------------------|--|
| EPPR valve |  CN-75 | 700mA | ※ Check resistance Normal : 15~25 Ω (For terminal 1-2) |
| Resistor |  CN-47 | 45 Ω 20W±5% | ※ Check resistance Normal : 45 Ω |
| Speaker |  CN-23(LH) CN-24(RH) | 20W | ※ Check resistance Normal : 4 Ω |
| Switch (Locking type) |  CS-23 CS-27 CS-50 CS-52 CS-54 | 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 |  CL-4 CL-5 CL-6 CL-8 CL-9 | 24V 70W (H3 Type) | ※ Check disconnection Normal : 1.2 Ω |

| Part name | Symbol | Specifications | Check |
|------------------|--|-----------------------|--|
| Room lamp |  <p>CL-1</p> | 24V 10W | ※ Check disconnection Normal : A few Ω |
| 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 |  <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>1</td> <td>Lo</td> <td>1</td> <td></td> </tr> <tr> <td>2</td> <td>MH</td> <td>3</td> <td></td> </tr> <tr> <td>3</td> <td>ML</td> <td>2</td> <td></td> </tr> <tr> <td>4</td> <td>Hi</td> <td>4</td> <td></td> </tr> </table> | 1 | Lo | 1 | | 2 | MH | 3 | | 3 | ML | 2 | | 4 | Hi | 4 | | - | ※ Check resistance Normal : 1.12 Ω (For terminal 4-2) 2.07 Ω (For terminal 2-3) 3.17 Ω (For terminal 3-1) |
| 1 | Lo | 1 | | | | | | | | | | | | | | | | | |
| 2 | MH | 3 | | | | | | | | | | | | | | | | | |
| 3 | ML | 2 | | | | | | | | | | | | | | | | | |
| 4 | Hi | 4 | | | | | | | | | | | | | | | | | |
| 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 |  CS-1 | 24V 2W | ※ Check resistance Normal : About 5MΩ | | | | | | | | | | | | | | | | |
| Fusible link |  CN-60 CN95 | 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) |  CS-5 CS-19 CS-26 CS-26A CS-29 | 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 |
| Resistor |  | 4W | ※ Check resistance A-B 120 Ω |