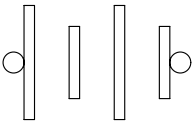
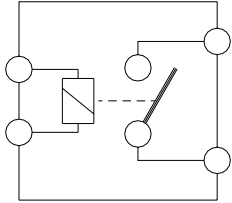
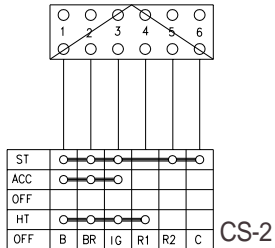
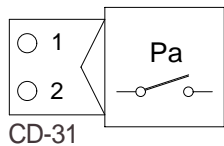
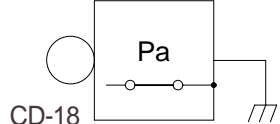
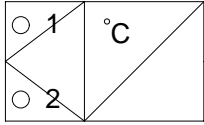
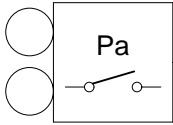
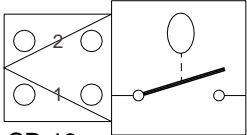
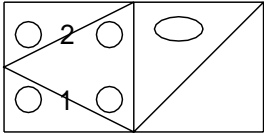
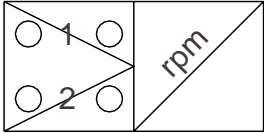
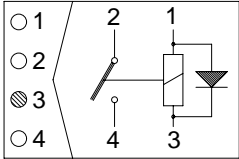
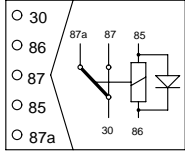
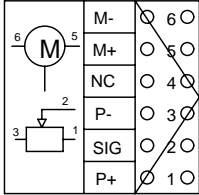
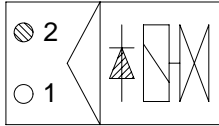
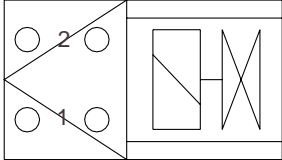
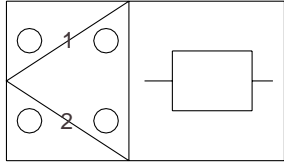
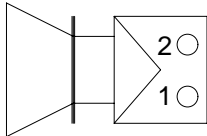
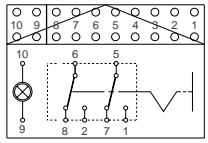
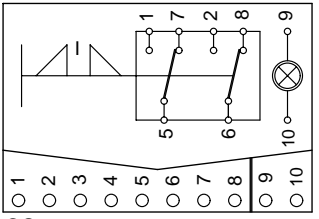
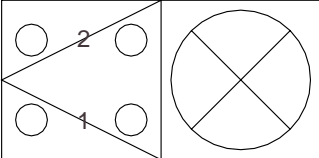
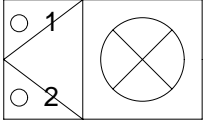
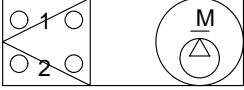
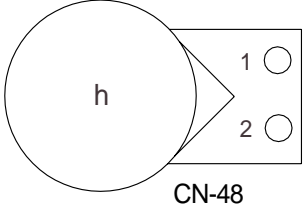


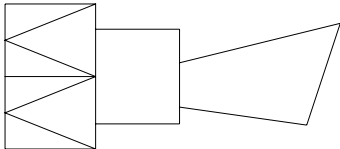
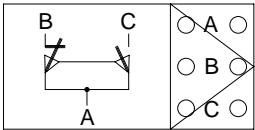
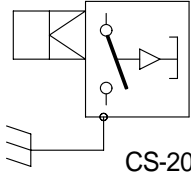
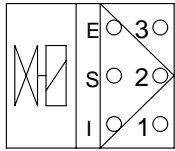
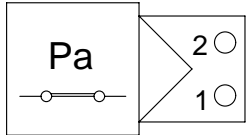
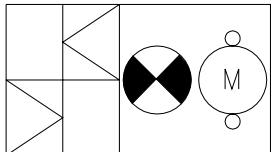
GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

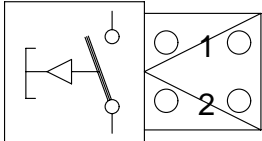
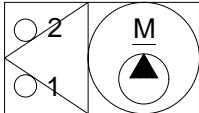
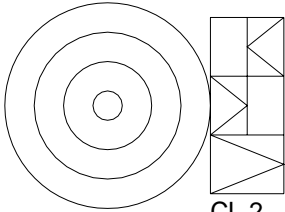
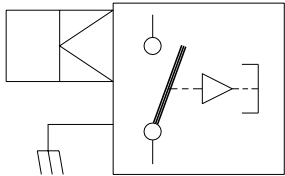
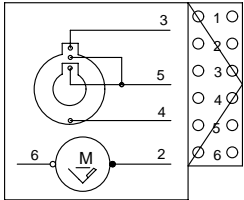
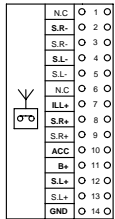
Part name	Symbol	Specification	Check
Battery		12V × 100Ah (2EA)	Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging
Battery relay	 <p style="text-align: center;">CR-1</p>	Rated load : 24V 100A(continuity) 1000A(30second)	Check coil resistance (M4 to M4) Normal : About 50 Check contact Normal :
Start key	 <p style="text-align: center;">CS-2</p>	24V 40A	Check contact OFF : (For each terminal) ON : 0 (For terminal 1-3 and 1-2) START : 0 (For terminal 1-5)
Pressure switch (For overload)	 <p style="text-align: center;">CD-31</p>	3 ~ 6kgf/cm ² (N.O TYPE)	Check contact Normal : (OPEN)
Pressure switch (For engine oil)	 <p style="text-align: center;">CD-18</p>	0.5 kgf/cm ² (N.C TYPE)	Check resistance Normal : 0 (CLOSE)

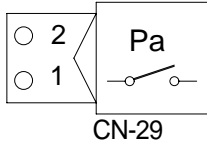
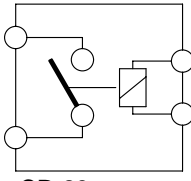
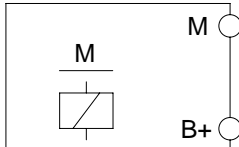
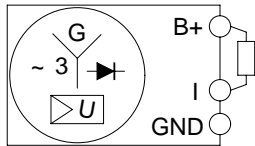
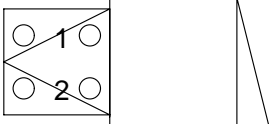
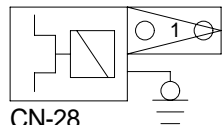
Part name	Symbol	Specification	Check												
Temperature sensor	 <p>CD-1, CD-8</p>	-	<p>Check resistance</p> <p>50°C : 804</p> <p>80°C : 310</p> <p>100°C : 180</p>												
Air cleaner pressure switch	 <p>CD-10</p>	Pressure: 635mmH ₂ O (N.O TYPE)	<p>Check contact</p> <p>Normal :</p>												
Coolant level sensor	 <p>CD-16</p>	24V 0.5A	<p>Check contact</p> <p>High level :</p> <p>Low level : 0</p>												
Fuel sender	 <p>CD-2</p>	-	<p>Check resistance</p> <table border="0"> <tr> <td>Full : 50</td> <td>6/12 : 350 Ω</td> </tr> <tr> <td>11/12 : 100</td> <td>5/12 : 400</td> </tr> <tr> <td>10/12 : 150</td> <td>4/12 : 450</td> </tr> <tr> <td>9/12 : 200</td> <td>3/12 : 500</td> </tr> <tr> <td>8/12 : 250</td> <td>2/12 : 550</td> </tr> <tr> <td>7/12 : 300</td> <td>1/12 : 600</td> </tr> </table> <p>Empty warning :700</p>	Full : 50	6/12 : 350 Ω	11/12 : 100	5/12 : 400	10/12 : 150	4/12 : 450	9/12 : 200	3/12 : 500	8/12 : 250	2/12 : 550	7/12 : 300	1/12 : 600
Full : 50	6/12 : 350 Ω														
11/12 : 100	5/12 : 400														
10/12 : 150	4/12 : 450														
9/12 : 200	3/12 : 500														
8/12 : 250	2/12 : 550														
7/12 : 300	1/12 : 600														
Tacho sensor	 <p>CD-17</p>	-	<p>Check resistance</p> <p>Normal : 300 (For terminal 1,2)</p>												
Relay		24V 20A	<p>Check resistance</p> <p>Normal : About 200 (For terminal 1-3)</p> <p>: 0 (For terminal 2-4)</p>												

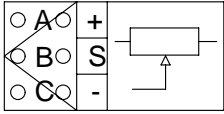
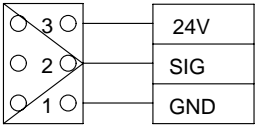
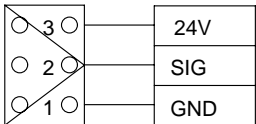
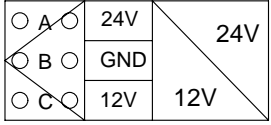
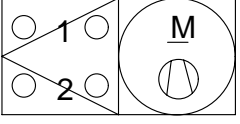
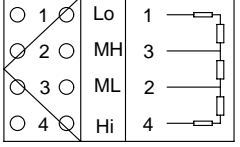
Part name	Symbol	Specification	Check
Relay	 <p>CR-2 CR-35 CR-5 CR-36 CR-7</p>	24V 16A	<p>Check resistance Normal : About 160 (For terminal 85-86) : 0 (For terminal 30-87a) : (For terminal 30-87)</p>
Accel actuator	 <p>CN-76</p>	-	<p>Check resistance Normal : 1-2 (For terminal 5-6) 0.8-1.2k (For terminal 1-3)</p>
Solenoid valve	 <p>CN-66 CN-68 CN-70 CN-88 CN-133 CN-137 CN-140</p>	24V 1A	<p>Check resistance Normal : 15~25 (For terminal 1-2)</p>
EPPR valve	 <p>CN-75</p>	700mA	<p>Check resistance Normal : 18~25 (For terminal 1-2)</p>
Prolix resistor	 <p>CN-47</p>	50 20W ± 5%	<p>Check resistance Normal : 50</p>
Speaker	 <p>CN-23(LH) CN-24(RH)</p>	4 20W	<p>Check resistance Normal : 4</p>

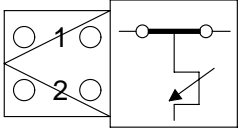
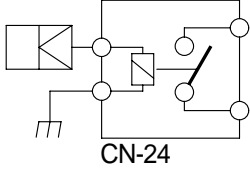
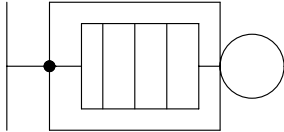
Part name	Symbol	Specification	Check
Switch (Looking type)	 <p>CS-23, CS-27, CS-50, CS-52, CS-54</p>	24V 8A	Check contact Normal ON - 0 (For terminal 1-5,2-6) - (For terminal 5-7,6-8) OFF - (For terminal 1-5,2-6) - 0 (For terminal 5-7,6-8)
Switch	 <p>CS-67</p>	24V 8A	Check contact Normal ON - 0 (For terminal 1-5,2-6) - (For terminal 5-7,6-8) OFF - (For terminal 1-5,2-6) - 0 (For terminal 5-7,6-8)
Lamp	 <p>CL-4, CL-5, CL-6, CL-8, CL-9</p>	24V 70W (H3 TYPE)	Check disconnection Normal : 1.2
Room lamp	 <p>CL-1</p>	24V 10W	Check disconnection Normal : A few
Fuel filler pump	 <p>CN-61</p>	24V 10A 35 /min	Check resistance Normal : 1.0
Hour meter	 <p>CN-48</p>	16V ~ 32V	Check operation · Supply power(24V) to terminal No. 2 and connect terminal No. 1 and ground.

Part name	Symbol	Specification	Check
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 (For terminal A-B) : (For terminal A-C) Operating : (For terminal A-B) : 0 (For terminal A-C)
Safety switch 2	 <p>CS-20</p>	24V (N.C TYPE)	Check contact Normal : 0 (one pin to ground)
Fuel cut-off	 <p>CN-79</p>	24V	Check resistance Normal : 15~25
Pressure switch	 <p>CD-7</p>	10bar (N.C type)	Check contact Normal : 0.1
Beacon lamp	 <p>CL-7</p>	24V 70W	Check disconnection Normal : 1.1

Part name	Symbol	Specification	Check
Switch (Power max, One touch decal, Breaker, Horn)	 CS-5 CS-19 CS-26 CS-29	24V 6A	Check contact Normal :
Washer pump	 CN-22	24V 3.8A	Check contact Normal : 10.7 (For terminal 1-2)
Cigar lighter	 CL-2	24V 5A 1.4W	Check coil resistance Normal : About 1M Check contact Normal : Operating time : 5~15sec
Switch	 CS-1, CS-20, CS-53	24V 2W	Check resistance Normal : About 5M
Wiper motor	 CN-21	24V 2A	Check contact Normal : 7 (For terminal 2-6)
Cassette radio	 CN-27	24V 2A	Check voltage 20 ~ 25V (For terminal 10-14,11-14)

Part name	Symbol	Specification	Check
Receiver dryer	 <p>CN-29</p>	24V 2.5A	Check contact Normal : 0
Start relay	 <p>CR-23</p>	24V 300A	Check contact Normal : 0.94 (For terminal 1-2)
Starter	 <p>CN-45</p>	Delco Remy 28MT 24V	Check contact Normal : 0.1
Alternator	 <p>CN-74</p>	24V 60A	Check contact Normal : 0 (For terminal B -1) Normal : 24 ~ 27.5V
Travel alarm	 <p>CN-81</p>	24V 0.5A	Check contact Normal : 5.2
Compressor	 <p>CN-28</p>	24V 79W	Check contact Normal : 13.4

Part name	Symbol	Specification	Check
Accel dial	 <p>CN-142</p>	-	Check resistance Normal : About 5K (For terminal A-C) Check valtage Normal : About 5V (For terminal A-C) : 2 ~ 4.5V (For terminal C-B)
Transducer	 <p>CD-42, CD-43</p>	500 bar	0bar : 1V(For terminal 1-2) 500bar : 5V(For terminal 1-2)
Transducer	 <p>CD-44</p>	50 bar	0bar : 1V(For terminal 1-2) 50bar : 5V(For terminal 1-2)
DC/DC Converter	 <p>CN-138</p>	12V 3A	24V(A-B) 12V(B-C)
Blower motor		24V 9.5A	Check resistance 2.5 (For terminal 1-2)
Resistor		-	Check resistance 1.12 (For terminal 4-2) 2.07 (For terminal 2-3) 3.17 (For terminal 3-1)

Part name	Symbol	Specification	Check
Duct sensor (Switch)		1.C OFF 4.C ON	Check resistance : 0 (For terminal 1-2, the atmosphere temp : over 4.C)
Preheater relay		24V 200A	Check contact Normal : 0.94 (For terminal 1-GND)
Preheater		24V 200A	check resistance : 0.25 ~ 0.12