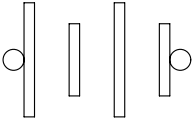
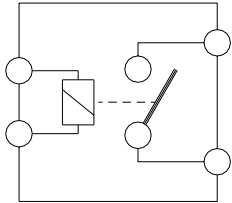
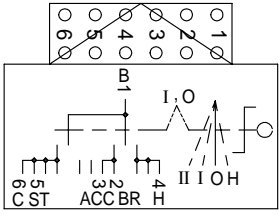
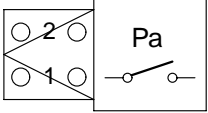
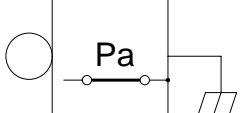
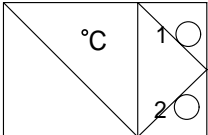
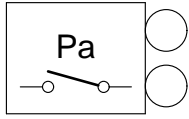
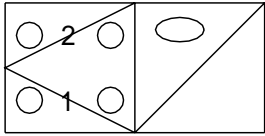
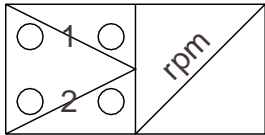
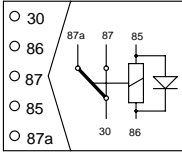
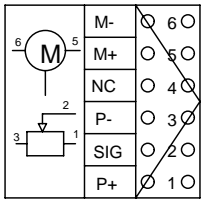
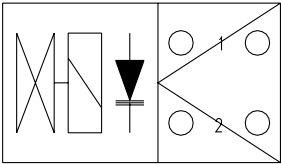
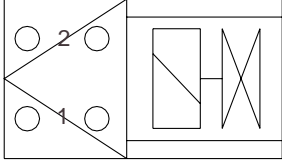
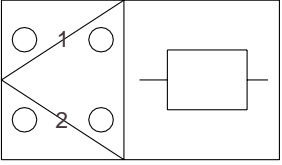
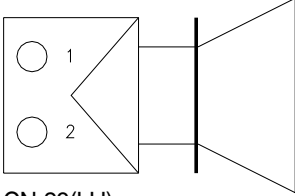
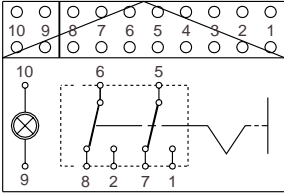
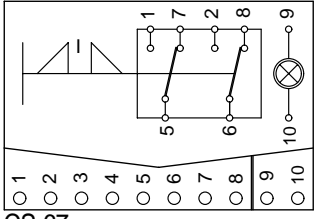
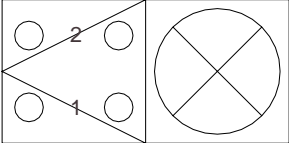
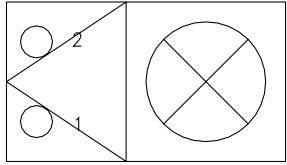
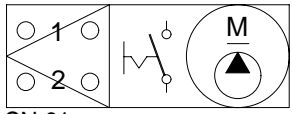
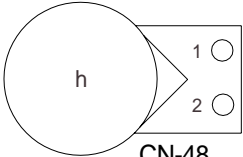
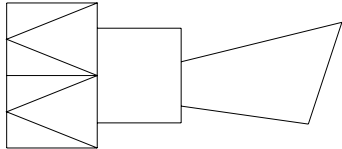
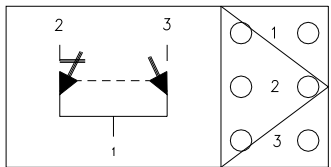
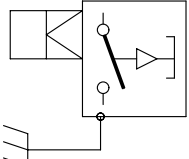


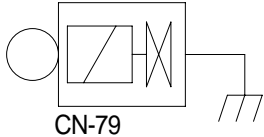
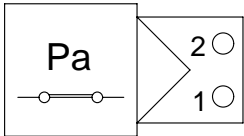
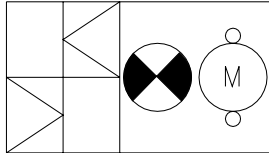
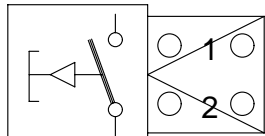
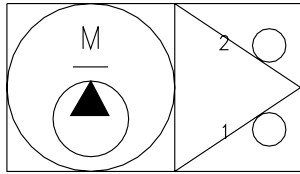
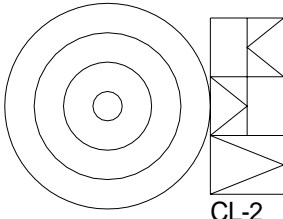
## GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

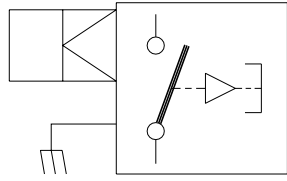
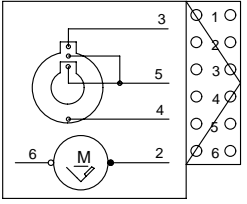
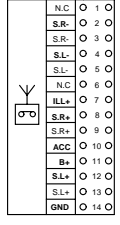
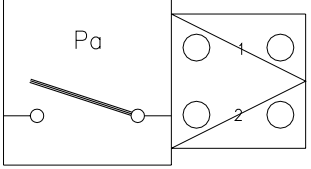
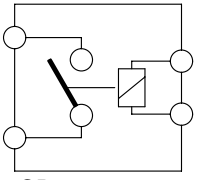
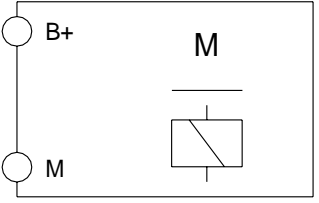
Part name	Symbol	Specification	Check
Battery		12V × 80Ah (2EA)	Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging
Battery relay	 <p style="text-align: center;">CR-1</p>	Rated load : 24V 100A(continuity) 1000A(30seconds)	Check coil resistance (M4 to M4) Normal : About 50 Check contact Normal :
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 : (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 ~ 6 kgf/cm <sup>2</sup> (N.O TYPE)	Check contact Normal : (OPEN)
Pressure switch (For engine oil)	 <p style="text-align: center;">CD-18</p>	0.5 kgf/cm <sup>2</sup> (N.C TYPE)	Check resistance Normal : 0 (CLOSE)
Temperature sensor	 <p style="text-align: center;">CD-1</p>	-	Check resistance 50. C : 804 80. C : 310 100. C : 180

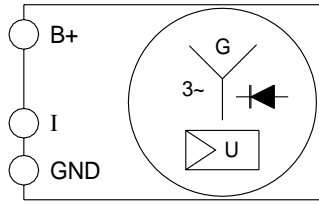
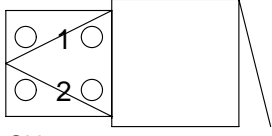
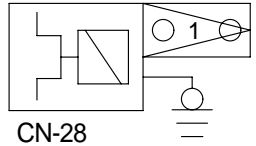
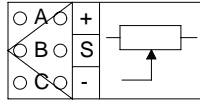
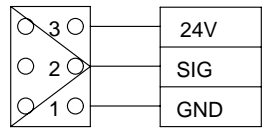
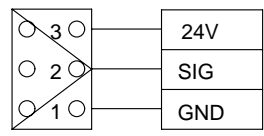
Part name	Symbol	Specification	Check
Air cleaner pressure switch	 CD-10	Pressure: 635mmH <sub>2</sub> O (N.O TYPE)	Check contact Normal :
Fuel sender	 CD-2	-	Check resistance Full : 50      6/12 : 350 Ω 11/12 : 100      5/12 : 400 10/12 : 150      4/12 : 450 9/12 : 200      3/12 : 500 8/12 : 250      2/12 : 550 7/12 : 300      1/12 : 600 Empty warning :700
Tacho sensor	 CD-17	-	Check resistance Normal : 300 (For terminal 1,2)
Relay (Horn, Safety, Ac comp, Power, Preheat)	 CR-2 CR-7 CR-35 CR-3 CR-29 CR-36 CR-5 CR-30 CR-47	24V 16A0	Check resistance Normal : About 160 (For terminal 85-86) : 0 (For terminal 30-87a) : (For terminal 30-87)
Accel actuator (DC motor)	 CN-76	-	Check resistance Normal : 1-2 (For terminal 5-6) 0.8-1.2k (For terminal 1-3)
Solenoid valve	 CN-66 CN-68 CN-69 CN-70 CN-71 CN-73 CN-88 CN-122 CN-123 CN-133 CN-137 CN-140	24V 1A	Check resistance Normal : 15~25 (For terminal 1-2)

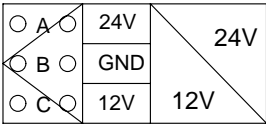
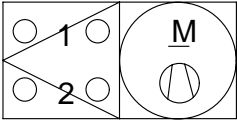
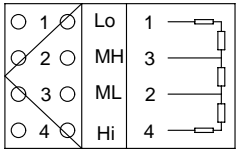
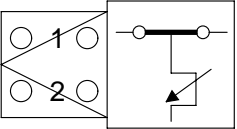
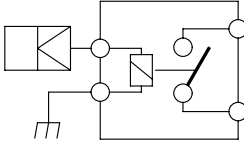
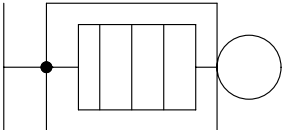
Part name	Symbol	Specification	Check
EPPR valve	 <p>CN-75</p>	700mA	Check resistance Normal : 18~25 (For terminal 1-2)
Resistor	 <p>CN-47</p>	50 20W ± 5%	Check resistance Normal : 50
Speaker	 <p>CN-23(LH) CN-24(RH)</p>	4 20W	Check resistance Normal : 4
Switch (Locking type)	 <p>CS-23 CS-27 CS-50 CS-52 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 (Quick clamp)	 <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)
Head lamp, Work lamp, Cab lamp, Number plate	 <p>CL-5 CL-6 CL-8 CL-9 CL-21</p>	24V 70W (H3 TYPE)	Check disconnection Normal : 1.2

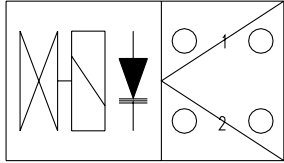
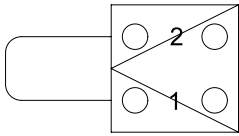
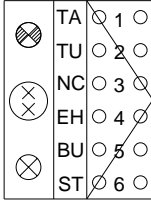
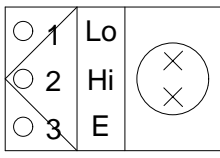
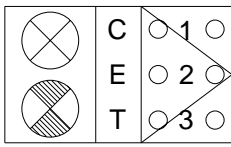
Part name	Symbol	Specification	Check
Room lamp	 <p>CL-1</p>	24V 10W	Check disconnection Normal : A few
Fuel filler pump	 <p>CN-61</p>	24V 10A 35 /min	Check resistance Normal : 1.0
Hour meter	 <p>CN-48</p>	16V ~ 32V	Check operation · Supply power(24V) to terminal No. 2 and connect terminal No. 1 and ground.
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 1-2) : (For terminal 1-3) Operating : (For terminal 1-2) : 0 (For terminal 1-3)
Safety switch 2 Wiper cut sw	 <p>CS-20 CS-53</p>	24V (N.C TYPE)	Check contact Normal : 0 (one pin to ground)

Part name	Symbol	Specification	Check
Fuel cut-off	 <p>CN-79</p>	24V	Check resistance Normal : 15~25
Pressure switch (T/M, Breaker, auto idle)	 <p>CD-3 CD-5 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
Switch (Power max, One touch decel, Breaker, Horn)	 <p>CS-5 CS-19 CS-26 CS-26A CS-29</p>	24V 6A	Check contact Normal :
Washer tank	 <p>CN-22</p>	24V 3.8A	Check contact Normal : 10.7 (For terminal 1-2)
Cigar lighter	 <p>CL-2</p>	24V 5A 1.4W	Check coil resistance Normal : About 1M Check contact Normal : Operating time : 5~15sec

Part name	Symbol	Specification	Check
Door switch	 <p>CS-1</p>	24V 2W	Check resistance Normal : About 5M
Wiper motor	 <p>CN-21</p>	24V 2A	Check contact Normal : 7 (For terminal 2-6)
Cassette radio	 <p>CN-27</p>	24V 2A	Check voltage 20 ~ 25V (For terminal 10-14,11-14)
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

Part name	Symbol	Specification	Check
Alternator	 <p>CN-74</p>	24V 60A	Check contact Normal : 0 (For terminal B -1) Normal : 24 ~ 27.5V
Travel alarm buzzer	 <p>CN-81</p>	24V 0.5A	Check contact Normal : 5.2
Aircon compressor	 <p>CN-28</p>	24V 79W	Check contact Normal : 13.4
Accel dial	 <p>CN-142</p>	-	Check resistance Normal : About 5k (For terminal A-C) Check vantage Normal : About 5V (For terminal A-C) : 2 ~ 4.5V (For terminal C-B)
Transducer (Pump 1,2)	 <p>CD-42 CD-43</p>	500 bar	0bar : 1V(For terminal 1-2) 500bar : 5V(For terminal 1-2)
Transducer (Pump 3)	 <p>CD-44</p>	50 bar	0bar : 1V(For terminal 1-2) 50bar : 5V(For terminal 1-2)

Part name	Symbol	Specification	Check
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)
Aircon resistor		-	Check resistance 1.12 (For terminal 4-2) 2.07 (For terminal 2-3) 3.17 (For terminal 3-1)
Duct sensor (Switch)		1,C OFF 4,C ON	Check resistance : 0 (For terminal 1-2, the atmosphere temp : over 4,C)
Preheater relay	 <p>CR-24</p>	24V 200A	Check contact Normal : 0.94 (For terminal 1-GND)
Preheater		24V 200A	Check resistance : 0.25 ~ 0.12

Part name	Symbol	Specification	Check
Quick clamp	 <p>CN-140</p>	24V 6A	Check contact Normal : 28.9M (For terminal 1-2)
Fusible link	 <p>CN-60 CN-95</p>	60A	Check disconnection Normal : 0 (Connect ring terminal and check resist between terminal 1 and 2)
Rear combination lamp-LH,RH	 <p>CL-15 CL-16</p>	24V 21W x 3 24V 10W	Normal : 4.8 (For terminal 1-4) Normal : 2.1 (For terminal 2-4, 4-5, 4-6)
Front combination lamp-LH, RH	 <p>CL-24 CL-25</p>	24V 21W 24V 10W	Normal : 4.8 (For terminal 1-2) Normal : 2.1 (For terminal 2-3)
Head lamp -LH, RH	 <p>CL-3 CL-4</p>	24V 75/70W	Normal : 1.0 (For terminal 1-3, 2-3) Normal : 1.5 (For terminal 1-2)