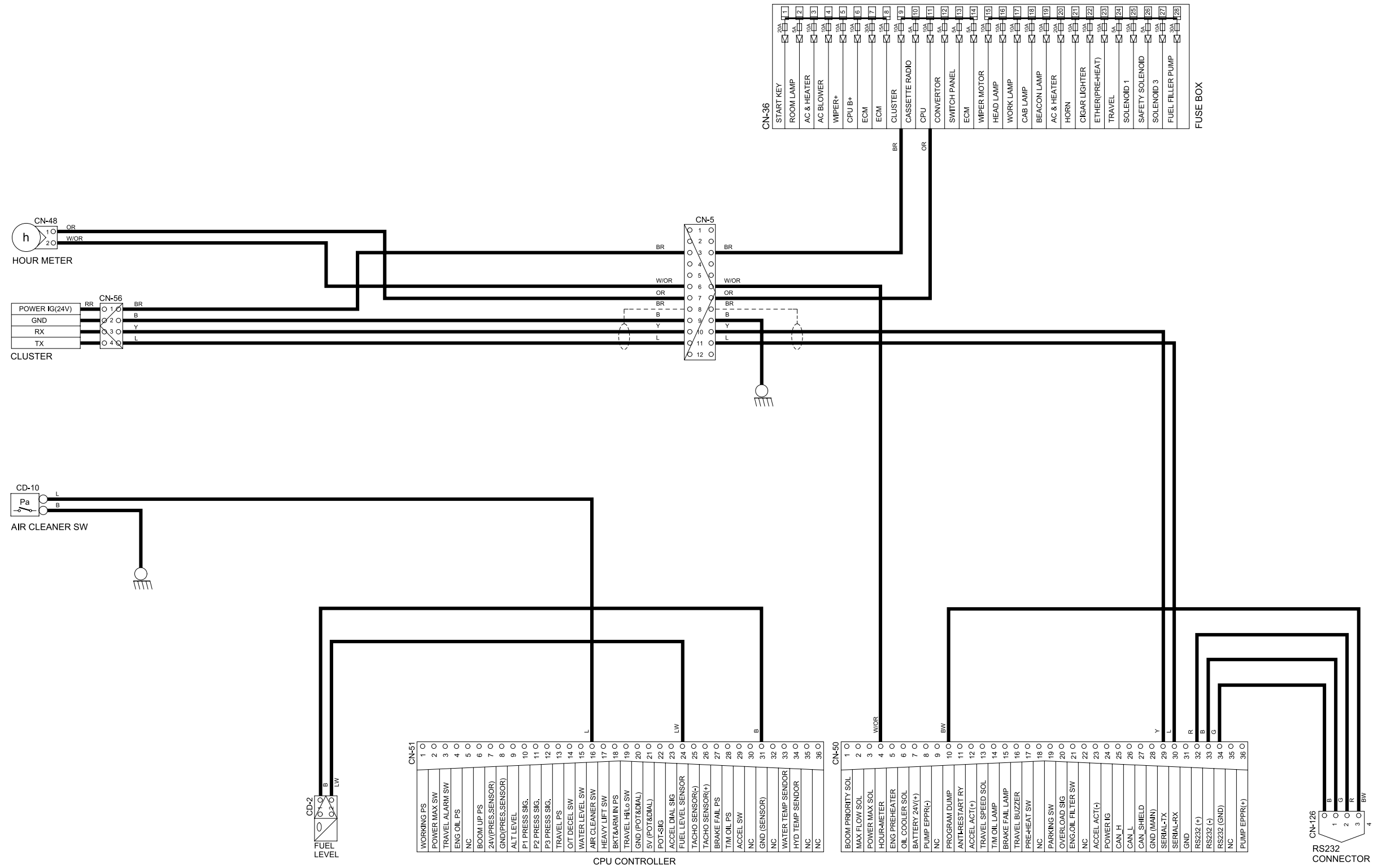
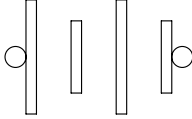
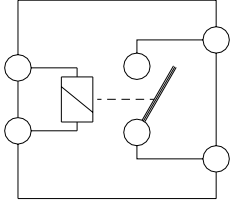
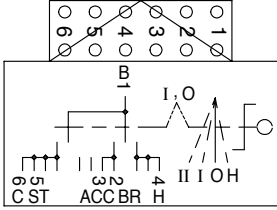
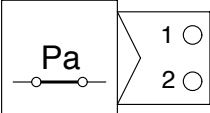
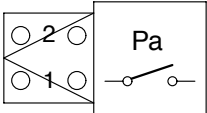
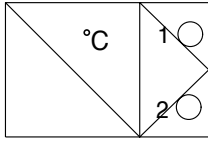
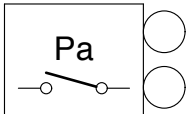
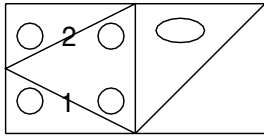
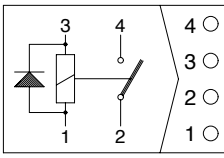
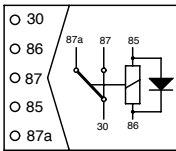
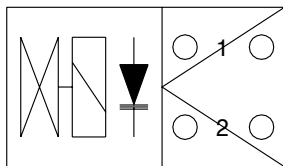


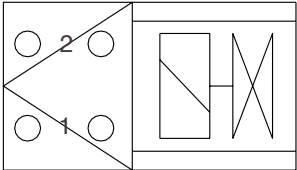
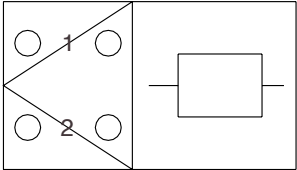
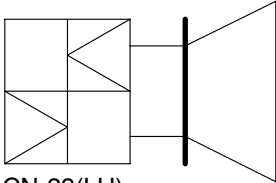
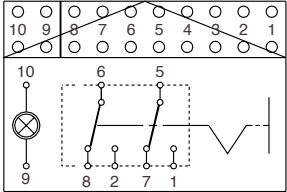
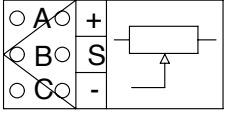
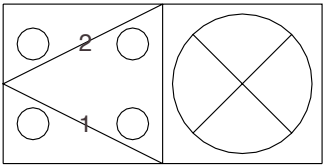
MONITORING CIRCUIT

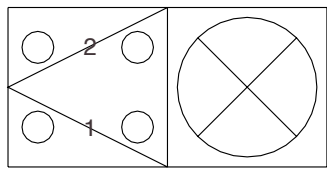
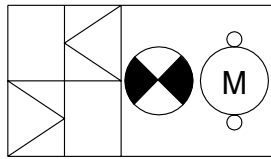
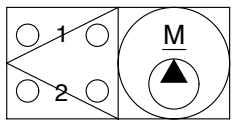
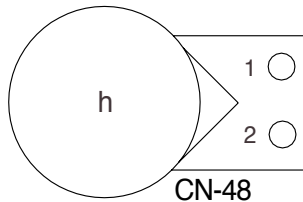
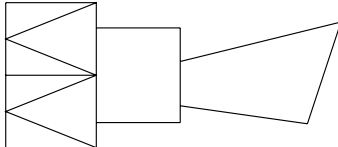
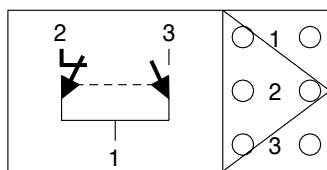


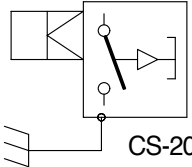
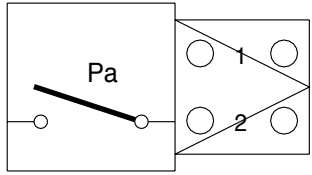
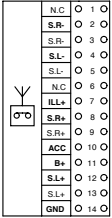
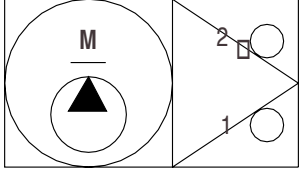
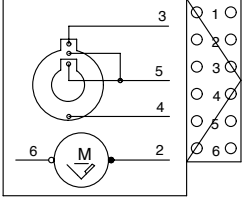
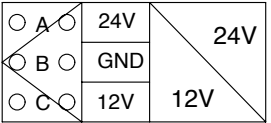
GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

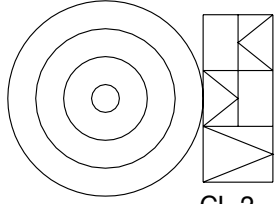
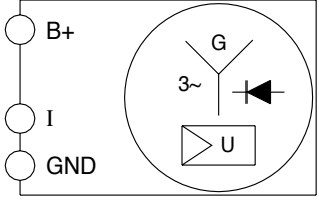
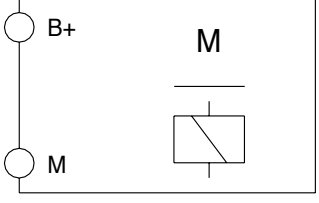
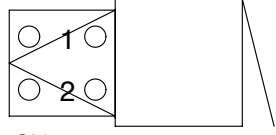
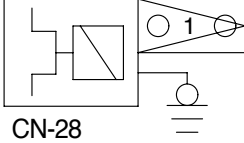
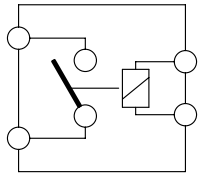
Part name	Symbol	Specifications	Check
Battery		12V × 160Ah (2EA)	Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging
Battery relay	 <p style="text-align: center;">CR-1</p>	Rated load : 24V 100A(continuity) 1000A(30seconds)	Check coil resistance(M4 to M4) Normal : About 50 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 (Travel, working)	 <p style="text-align: center;">CD-6 CD-7</p>	10kgf/cm ² (N.C TYPE)	Check contact Normal : 0.1
Pressure switch (For overload)	 <p style="text-align: center;">CD-31</p>	3~6kgf/cm ² (N.O TYPE)	Check contact Normal :

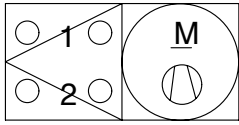
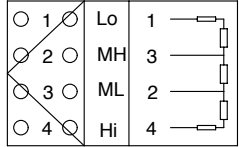
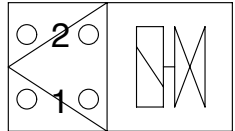
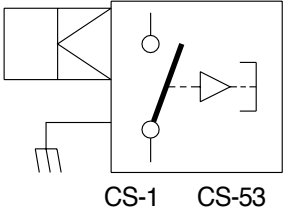
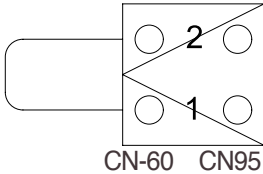
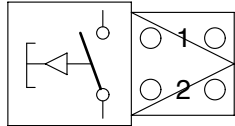
Part name	Symbol	Specifications	Check
Temperature sensor (Coolant, Air Hydraulic)	 CD-1	-	Check resistance 50°C : 804 80°C : 310 100°C : 180
Air cleaner pressure switch	 CD-10	-	Check contact High level : Low level : 0
Fuel sender	 CD-2	-	Check resistance Full : 50 6/12 : 350 11/12 : 100 5/12 : 400 10/12 : 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
Relay (Fuel heater)	 CR-46	24V 20A	Check resistance Normal : About 200 (For terminal 1-3) : 0 (For terminal 2-4)
Relay	 CR-2 CR-5 CR-7 CR-35 CR-36	24V 16A	Check resistance Normal : About 160 (For terminal 85-86) 0 (For terminal 30-87a) (For terminal 30-87)
Solenoid valve	 CN-66 CN-68 CN-70 CN-88 CN-133 CN-137	24V 1A	Check resistance Normal : 15~25 (For terminal 1-2)

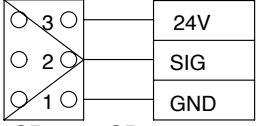
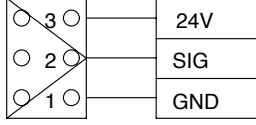
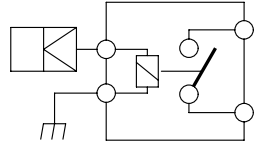
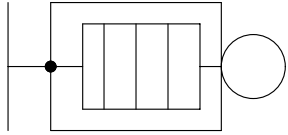
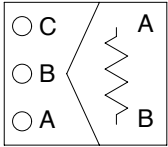
Part name	Symbol	Specifications	Check
EPPR valve	 CN-75	24V 1A	Check resistance Normal : 15~25 (For terminal 1-2)
Resistor	 CN-47	700mA	Check resistance Normal : 45
Speaker	 CN-23(LH) CN-24(RH)	45 20W ± 5%	Check resistance Normal : 45
Switch (Locking type)	 CS-23 CS-27 CS-50 CS-52 CS-54	45 2W	Check contact 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)
Accel dial	 CN-142	24V 8A	Check resist Normal : About 5k (For terminal A-C) 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

Part name	Symbol	Specifications	Check
Room lamp	 <p>CL-1</p>	24V 10W	Check disconnection Normal : A few
Beacon lamp	 <p>CL-7</p>	21V 70W (H1 type)	Check disconnection Normal : 1.1
Fuel filler pump	 <p>CN-61</p>	24V 10A 35 /min	Check resistance Normal : 1.0
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 (For terminal 1-2) (For terminal 1-3) Operating : (For terminal 1-2) 0 (For terminal 1-3)

Part name	Symbol	Specifications	Check
Safety switch 2	 <p>CS-20</p>	24V (N.C TYPE)	Check contact Normal : 0 (One pin to ground)
Receiver dryer	 <p>Pa</p> <p>CN-29</p>	24V 2.5A	Check contact Normal :
Cassette radio	 <p>CN-27</p>	24V 2A	Check voltage 20~25V (For terminal 10-14, 11-14)
Washer pump	 <p>M</p> <p>CN-22</p>	24V 3.8A	Check contact Normal : 10.7 (For terminal 1-2)
Wiper motor	 <p>CN-21</p>	24V 2A	Check disconnection Normal : 7 (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 1M Check contact Normal : Operating time : 5~15sec
Alternator	 <p>CN-74</p>	24V 55A	Check contact Normal : 0 (For terminal B ⁺ -I) Normal : 24~27.5V
Starter	 <p>CN-45</p>	Delco Remy 28MT 24V	Check contact Normal : 0.1
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
Start relay	 <p>CR-23</p>	24V 300A	Check contact Normal : 0.94 (For terminal 1-2)

Part name	Symbol	Specifications	Check																
Blower motor		24V 9.5A	Check resistance Normal : 2.5 (For terminal 1-2)																
Aircon resistor	 <table border="1" data-bbox="555 607 703 752"> <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 (For terminal 4-2) 2.07 (For terminal 2-3) 3.17 (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 (For terminal 1-2), the atmosphere temp : Over 4, C																
Door switch, wiper cut		24V 2W	Check resistance Normal : About 5M																
Fusible link		60A	Check disconnection normal : 0 (Connect ring terminal and check resist between terminal 1 and 2)																
Switch (Power max, one touch decel, breaker, horn)		24V 6A	Check resistance Normal :																

Part name	Symbol	Specifications	Check
Transducer	 <p>CD-42 CD-43</p>	500bar	0bar : 1V(For terminal 1-2) 500bar : 5V(For terminal 1-2)
Transducer	 <p>CD-44</p>	50bar	0bar : 1V(For terminal 1-2) 50bar : 5V(For terminal 1-2)
Preheater relay	 <p>CR-24</p>	24V 200A	Check contact Normal : 0.94 (For terminal 1-GND)
Preheater		24V 200Ae	Check resistance : 0.25 ~ 0.12
Resistor	 <p>CN-98 CN-99</p>	4W	Check resistance A-B : 120