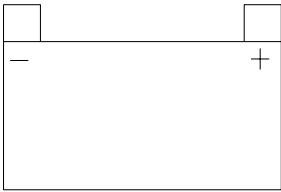
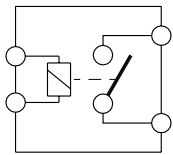
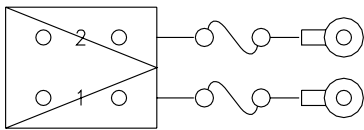
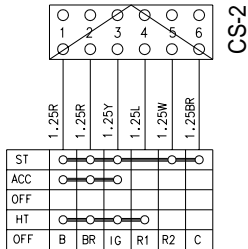
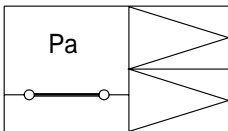
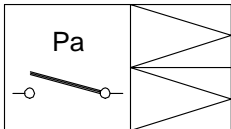
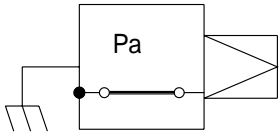
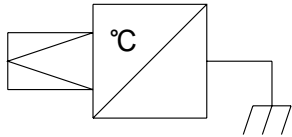
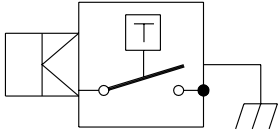
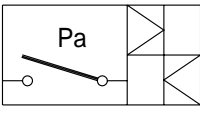
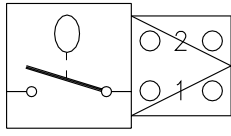
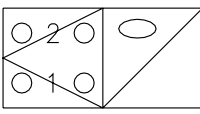
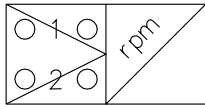
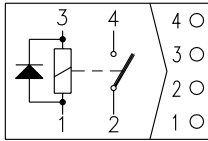
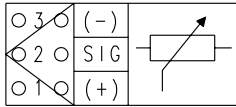
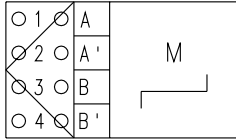
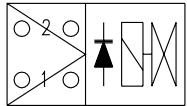
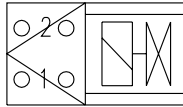
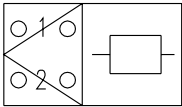
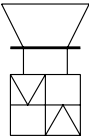
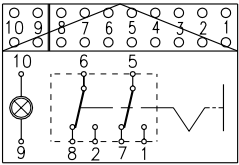
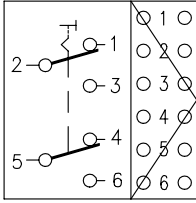
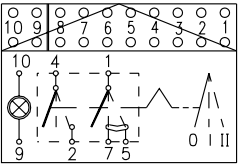
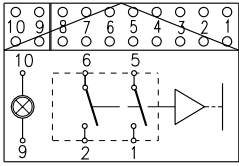


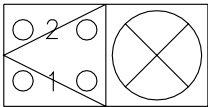
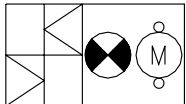
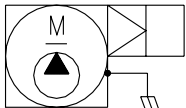
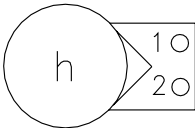
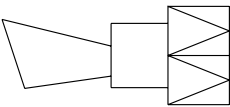
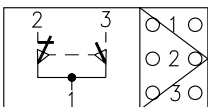
GROUP 4 ELECTRICAL COMPONENT SPECIFICATION

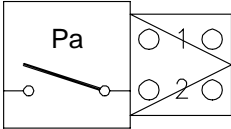
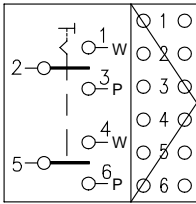
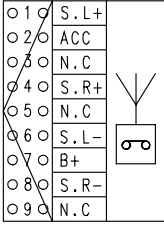
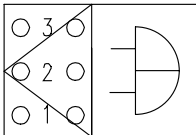
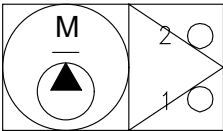
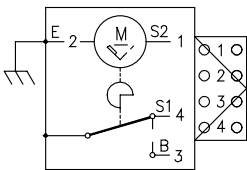
Part name	Symbol	Specifications	Check
Battery		12V × 120Ah (2EA)	※ Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging
Battery relay	 CR-1	Rated load : 24V 100A(continuity) 1000A(30seconds)	※ Check coil resistance(M4 to M4) Normal : About 50 Ω ※ Check contact Normal : ∞Ω
Fusible link	 CN-60	24V 60A	※ Check disconnection Normal : 0 Ω (connect ring terminal and check resist between terminal 1 and 2)
Start key		B-BR : 24V 1A B-IG : 24V 10A B-R2 : 24V 40A	※ Check contact OFF : ∞Ω (For each terminal) ON : 0 Ω (For terminal 1-3) ∞Ω (For terminal 1-5) START : 0 Ω (For terminal 1-3 and 1-5)
Pressure switch	 CD-6 CD-3 CD-7 CD-5	10kg/cm ² (N. C TYPE)	※ Check contact Normal : 0.1 Ω
Pressure switch (for stop lamp)	 CD-4	4 ~ 6kg/cm ² (N. O TYPE)	※ Check contact Normal : ∞Ω

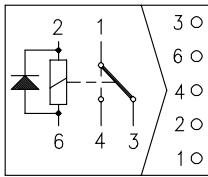
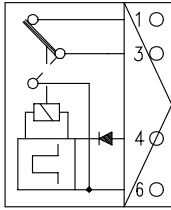
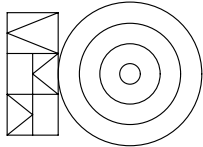
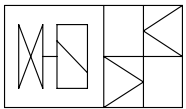
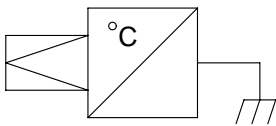
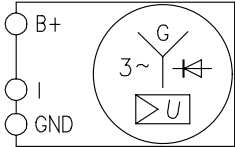
Part name	Symbol	Specifications	Check
Pressure switch (for engine oil)	 <p>CD-18</p>	0.5kg/cm ² (N. C TYPE)	※ Check contact Normal : 0 Ω
Coolant temperature sensor	 <p>CD-8</p>	-	※ Check resistance 50°C : 153.9 Ω 80°C : 51.9 Ω 100°C : 27.4 Ω
Coolant overheat sensor	 <p>CD-9</p>	-	※ Check resistance Normal : ∞Ω 105°C over : 0 Ω
Air cleaner pressure switch	 <p>CD-10</p>	Pressure:635mm H ₂ O (N.O TYPE)	※ Check contact Normal : ∞Ω
Coolant level sensor	 <p>CD-16</p>	-	※ Check contact High level : ∞Ω Low level : 0 Ω
Fuel sender	 <p>CD-2</p>	-	※ Check resistance Full : 3 Ω 5/6 : 25 Ω 4/6 : 35 Ω 3/6 : 68 Ω 2/6 : 95 Ω 1/6 : 110 Ω Empty warning : 180 Ω

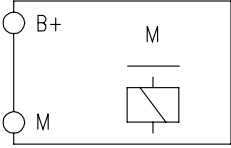
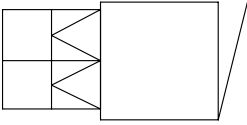
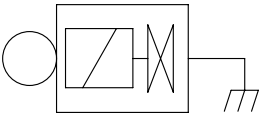
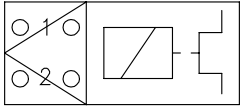
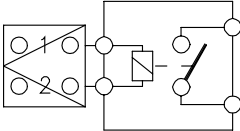
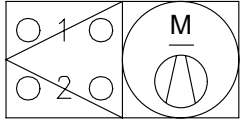
Part name	Symbol	Specifications	Check
Tacho sensor	 CD-17	-	※ Check resistance Max. 300 Ω
Relay	 CR-2 AC RY1 CR-5 AC RY2	24~32V 20A	※ Check resistance Normal : 400 Ω (for terminal 1-3) : ∞ Ω (for terminal 2-4)
Potentiometer	 CN-77	-	※ Check resistance Normal : About 5kΩ (for terminal 1-3) : 0.6K Ω ~5kΩ (for terminal 2-3)
Governor motor	 CN-76	-	※ Check resistance Normal : 5~6 Ω (for terminal 1-2) : 5~6 Ω (for terminal 3-4)
Solenoid valve	 CN-66 CN-88 CN-68 CN-89 CN-72 CN-122 CN-123	24~27V 1.2A	※ Check resistance Normal : 21.2 Ω (for terminal 1-2)
EPPR valve	 CN-75	700mA	※ Check resistance Normal : 17.5 Ω (for terminal 1-2)

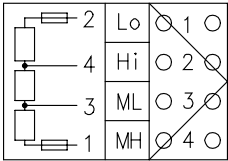
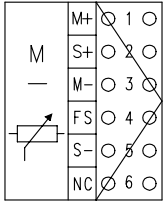
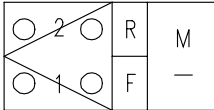
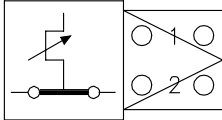
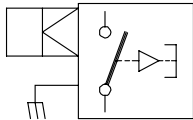
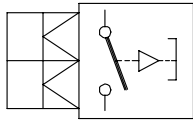
Part name	Symbol	Specifications	Check
Resistor	 CN-47	50Ω 20W	※ Check resistance Normal : 50 Ω
Speaker	 CN-23(LH) CN-24(RH)	4Ω 20~40W	※ Check resistance Normal : 7.5 Ω ※ Output sound pressure level : 95 ± 2dB
Switch (Locking type)	 CS-18 CS-23 CS-25 CS-27 CS-36 CS-41 CS-50 CS-52 CS-54	24V 8A	※ Check contact OFF : ∞Ω (for terminal 1-5,2-6) : 0 Ω (for terminal 5-7,6-8)
Prolix switch	 CS-7	24~125V 15A	※ Check contact Normal : 0 Ω (for terminal 1-2, 4-5) Emergency : 0 Ω (for terminal 2-3, 5-6)
Switch (Locking type)	 CS-21	24V 8A	※ Check contact OFF : ∞Ω (for terminal 1-5, 2-4) ON : 0 Ω (for terminal 1-5, 2-4)
Switch (Non-locking type)	 CS-22	24V 8A	※ Check contact OFF : ∞Ω (for terminal 1-5,2-6)

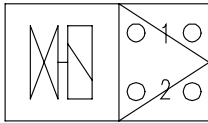
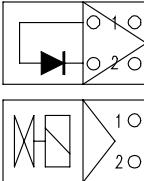
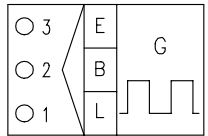
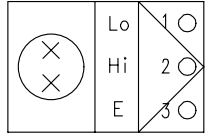
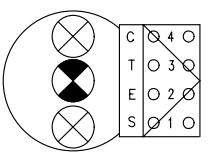
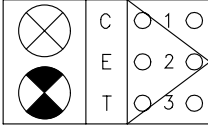
Part name	Symbol	Specifications	Check
Work lamp, Room lamp, Number plate lamp	 CL-1 CL-5 CL-6 CL-21	24V 70W (H3 TYPE) 24V 10W (Room lamp)	※ Check disconnection · Normal : A few Ω · Normal : 0.4 Ω (Room lamp)
Beacon lamp	 CL-7	24V 70W (H1 TYPE)	※ Check disconnection Normal : A few Ω
Fuel filler pump	 CN-61	24V 10A 35 l /min	※ Check operation · Supply power(24V) to terminal 1 pin · Connect ring terminal with ground and switch turn ON
Hour meter	 CN-48	16~32V	※ Check operation · Supply power(24V) to terminal No. 2 and connect terminal No. 1 and ground
Horn	 CN-20 CN-25	22~28V 2A 1M Ω	※ Check operation · Supply power(24V) to each terminal and connect ground · Sound level : 110dB
Safety switch	 CS-4	24V 15A	※ Check contact · Normal : 0 Ω (for terminal 1-2) : $\infty \Omega$ (for terminal 1-3) · Operating : $\infty \Omega$ (for terminal 1-2) : 0 Ω (for terminal 1-3)

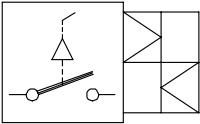
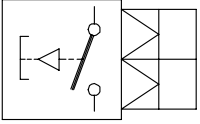
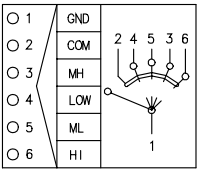
Part name	Symbol	Specifications	Check
Receiver dryer	 <p>CN-29</p>	24V 2.5A	※ Check contact Normal : $\infty\Omega$
Working, Traveling, Parking switch	 <p>CS-17</p>	24~125V 15A	※ Check contact Travel : $\infty\Omega$ (for terminal 1-2, 4-5) Working : 0 Ω (for terminal 1-2, 4-5) Parking : 0 Ω (for terminal 2-3, 5-6)
Cassette radio	 <p>CN-27</p>	24V 2A	※ Check resistance Power ON • 15W+15W, 4 Ω + 4 Ω (for teminal 1-6, 4-8) • 20~25V (for terminal 7-GND, 2-GND)
Buzzer	 <p>CN-26</p>	24V 0.3A	※ Check contact Normal : 1.9 Ω (for terminal 1-3)
Washer pump	 <p>CN-22</p>	24V 2.5A	※ Check contact Normal : 26.4 Ω (for terminal 1-2)
Wiper motor	 <p>CN-21</p>	24V 2A	※ Check resistance Normal : 10.5 Ω (for terminal 1-2) Wiper operating : 24V(for terminal 1-4) : 0V(for terminal 2-GND)

Part name	Symbol	Specifications	Check
Relay	 CR-4 CR-16 CR-17 CR-34 CR-36	24~32V 16A	※ Check resistance Normal : About 240 Ω (for terminal 2-6) : 0 Ω (for terminal 1-3) : ∞Ω (for terminal 1-4)
Intermittent wiper relay	 CR-6	20~30V 5A	Normal : 0 Ω (for terminal 1-3)
Cigar lighter	 CL-2	24V 5A BULB 1.4W	※ Check resistance Normal : 7.9 - 8.3 Ω ※ Operating time : 5~15sec
Ether	 CN-78	24V 15A	※ Check contact Normal : 1.1 Ω
Hydraulic temperature	 CD-1	-	※ Check resistance 50° C: 153.9 Ω 80° C: 51.9 Ω 100° C: 27.4 Ω 120° C: 16.1 Ω
Alternator	 CN-74	24V 60A	※ Check voltage Normal : 24~27.9V

Part name	Symbol	Specifications	Check
Starter	 CN-45	Delco Remy 28MT 24V	※ Operating or not
Back buzzer	 CN-65	24V 0.5A	※ Check contact Normal : 5.2 Ω
Fuel cut-off	 CN-79	24V	※ Check resistance Normal : 15~25 Ω
Aircon compressor	 CN-28	24V 79W	※ Check contact Normal : 13.4 Ω
Start relay	 CR-23	24V 300A (for terminal 1-2)	※ Check contact Normal : 11.3 Ω
Blower	 M	24V 9A	-

Part name	Symbol	Specifications	Check
Aircon resistor		24~28V	※ Check contact Normal - 1.9 Ω(for teminal 2-4) - 3.3 Ω(for teminal 1-3) - 5.4 Ω(for teminal 1-4) - 5.7 Ω(for teminal 1-2)
Mode actuator & Temp actuator		9~16V 300mA MAX	-
Intake actuator		12V	※ Check resistance Normal:2.0 Ω(for teminal 1-2)
Thermostat		-	※ Working temperature of contact point : AC ON → 4.5°C AC OFF → 1.5°C Differential of temperature → 3 degree Reted input volt : 24V
Door switch	 CS-1	12~24V 20W	※ Check resistance Normal : ∞Ω
Horn switch	 CS-5	30V 6A	※ Check contact Normal : ∞Ω

Part name	Symbol	Specifications	Check
Arm/Dozer select solenoid	 CN-116	24V 1A	Resistance : 28.9 Ω
Solenoid valve	 CN-67 CN-69 CN-70 CN-71	24V 1A	Resistance : 28.9 Ω
Flasher unit	 CR-11	24V 85C/M	-
Head lamp	 CL-3 CL-4	24V 75/70W	※ 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 21W × 2 (for terminal 1-2) 24V 10W (for terminal 2-3, 2-4)	※ Normal : 4.8 Ω 2.1 Ω
Front combi lamp	 CL-24 CL-25	24V 21W (for terminal 2-3) 24V 10W (for terminal 1-2)	※ Normal : 2.1 Ω 4.8 Ω

Part name	Symbol	Specifications	Check
Pedal switch	 <p>CS-26</p>	24V 15A	※ Check contact Normal open : $\infty\Omega$ (for terminal)
Power max switch	 <p>CS-29</p>	24V 6A	※ Check contact Normal : $\infty\Omega$
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)