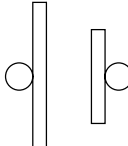
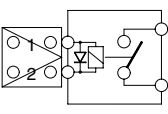
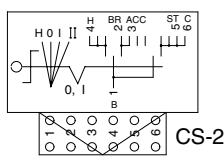
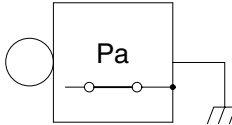
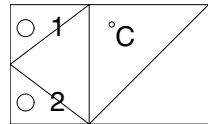
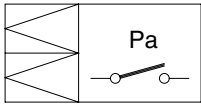
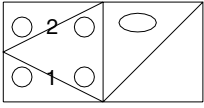
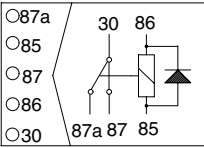
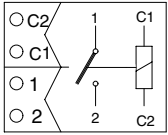
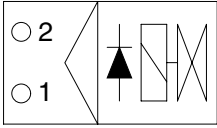
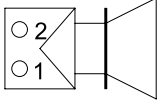
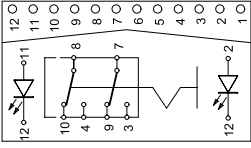
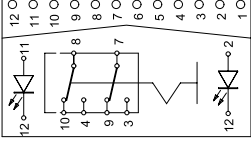
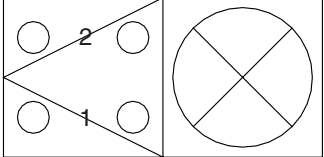
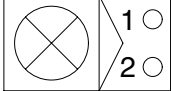
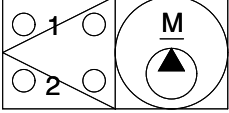
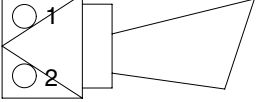
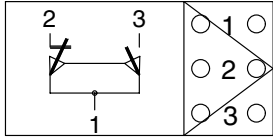
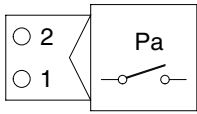
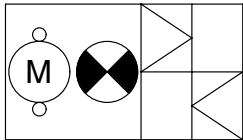
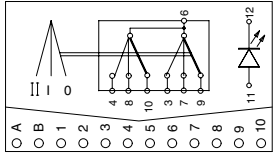
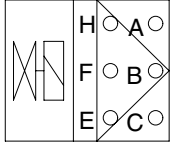
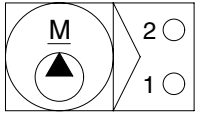


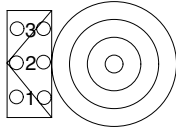
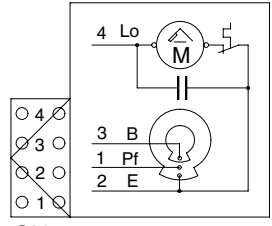
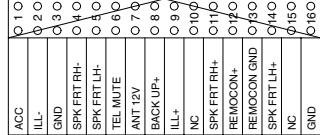
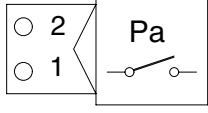
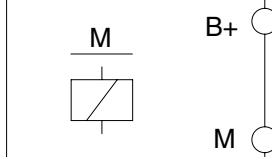
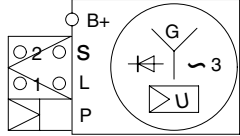
GROUP 4 ELECTRICAL COMPONENT SPECIFICATION

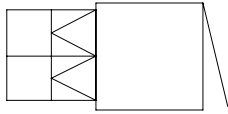
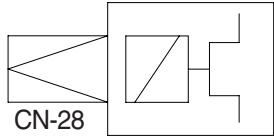
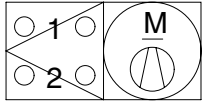
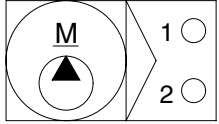
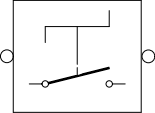
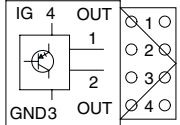
Part name	Symbol	Specification	Check
Battery		12V × 100Ah	※ Check specific gravity 1.280 over : over charged 1.280 ~ 1.250 : normal 1.250 below : recharging
Battery relay	 CR-1	Rated load : 12V 100A (continuity) 1000A (30 second)	※ Check coil resistance Normal : about 12 Ω ※ Check contact Normal : ∞ Ω
Start key	 CS-2	12V	※ 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 (for engine oil)	 CD-18	0.5 kgf/cm ² (N.C TYPE)	※ Check resistance Normal : 0 Ω (CLOSE)
Temperature sensor	 CD-8	0.5 kgf/cm ² (N.C TYPE)	※ Check resistance 50°C : 804 Ω 80°C : 310 Ω 100°C : 180 Ω

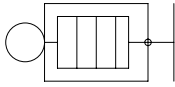
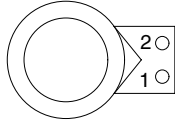
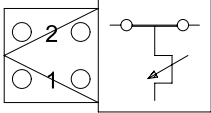
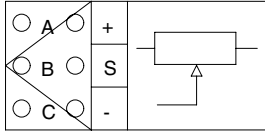
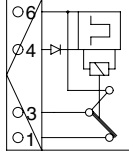
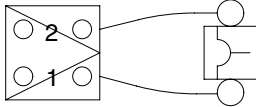
Part name	Symbol	Specification	Check
Air cleaner pressure switch	 <p>CD-10</p>	Pressure: 635mmH ₂ O (N.O TYPE)	※ Check contact Normal : ∞ Ω
Fuel sender	 <p>CD-2</p>	-	※ Check resistance Full : 100 Ω Low : 500 Ω Empty warning : 700 Ω
Relay	 <p>CR-2 CR-3 CR-4 CR-5 CR-7 CR-9 CR-12 CR-13 CR33 CR-36 CR-62 CR-85</p>	12V 20A	※ Check resistance Normal : about 200 Ω (for terminal 85-86) : 0 Ω (for terminal 30-87a) : ∞ Ω (for terminal 30-87)
Relay	 <p>CR-23 CR-24 CR-47</p>	12V 60A	※ Rated coil current 1.2±0.3A
Solenoid valve	 <p>CN-66 CN-68 CN-70 CN-140</p>	12V 1A	※ Check resistance Normal : 15~25 Ω (for terminal 1-2)
Speaker	 <p>CN-23(LH) CN-24(RH)</p>	4 Ω 20W	※ Check resistance Normal : 4 Ω

Part name	Symbol	Specification	Check
Boom swing switch	 <p>CS-2</p>	12V 16A	※ Check contact Normal OFF - $\infty \Omega$ (for terminal 1-5,2-6) - 0Ω (for terminal 5-7,6-8)
Quick clamp switch	 <p>CS-67</p>	12V 16A	※ Check contact Normal OFF - $\infty \Omega$ (for terminal 1-5,2-6) - 0Ω (for terminal 5-7,6-8)
Lamp	 <p>CL-3 CL-4 CL-5</p>	12V 55W (H3 TYPE)	※ Check disconnection Normal : 1.2Ω
Room lamp	 <p>CL-1</p>	12V 10W	※ Check disconnection Normal : a few Ω
Fuel filler pump	 <p>CN-145</p>	12V 35 l / min	※ Check operation Supply power (for terminal 1) : 12V
Horn	 <p>CN-20 CN-25</p>	12V	100±5dB

Part name	Symbol	Specification	Check
Safety switch	 <p>CS-4</p>	Micro	※ Check contact Normal : 0 Ω (for terminal A-B) : ∞ Ω (for terminal A-C) Operating : ∞ Ω (for terminal A-B) : 0 Ω (for terminal A-C)
Pressure switch	 <p>CD-7 CD-11 CD-12</p>	10bar (N.C type)	※ Check contact Normal : 0.1 Ω
Beacon lamp	 <p>CL-7</p>	12V (Strobe type)	※ Check disconnection Normal : a few Ω
Wiper switch	 <p>CS-3</p>	12V 16A	※ Check contact Normal : ∞ Ω
Fuel cut-off	 <p>CN-79</p>	12V	※ Check operation Rated full current : 12V 33A Rated hold current : 12V 0.8A
Washer pump	 <p>CN-22</p>	12V 3.8A	※ Check contact Normal : 3 Ω (for terminal 1-2)

Part name	Symbol	Specification	Check
Cigar lighter	 <p>CL-2</p>	12V 10A 1.4W	※ Check coil resistance Normal : about 1MΩ ※ Check contact Normal : ∞ Ω Operating time : 5~15sec
Wiper motor	 <p>CN-21</p>	12V 3A	※ Check contact Normal : 6 Ω (for terminal 2-6)
Radio & CD/MP3 player	 <p>CN-27</p>	24V 2A	※ Check voltage 20 ~ 25V (for terminal 1-3, 3-8)
Receiver dryer	 <p>CN-29</p>	12V	※ Check contact Normal : 0 Ω
Starter	 <p>CN-45</p>	12V	※ Check contact Normal : 0.1 Ω
Alternator	 <p>CN-74</p>	12V 55A	※ Check contact Normal : 0 Ω (for terminal B ⁺ -1) Normal : 24 ~ 27.5V

Part name	Symbol	Specification	Check
Travel buzzer	 <p>CN-81</p>	12V	-
Compressor	 <p>CN-28</p>	12V 38W	-
Air con fan motor	 <p>CN-83</p>	12V 8.5A	-
Fuel feed pump	 <p>CN-145</p>	12V	-
Master switch		12V 1000A	-
Timer		12V	-

Part name	Symbol	Specification	Check
Preheater	 CN-80	12V 42A 500W	-
12V socket	 CN-139	12V 120W	-
Duct sensor		1°C OFF 4°C ON	※ Check resistance Normal : 0 Ω (for terminal 1-2) the atmosphere temp : over 4°C
Accel dial	 CN-142	-	※ Check resistance Normal : about 5k Ω (for terminal A-C) ※ Check voltage Normal : about 5V (for terminal A-C) : 2~4.5V (for terminal C-B)
Int wiper relay	 CR-6	12V 12A	-
Circuit breaker manual reset	 CN-60 CN-95	12V, 30A (CN-65) 12V, 60A (CN-95)	-