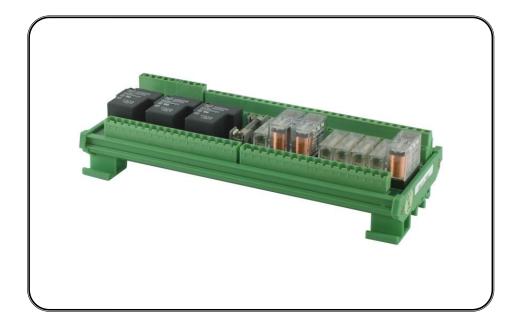
ECU-11((12V) & ECU-22(24V)

Relay Module And Harness For Quick Installation of ECU





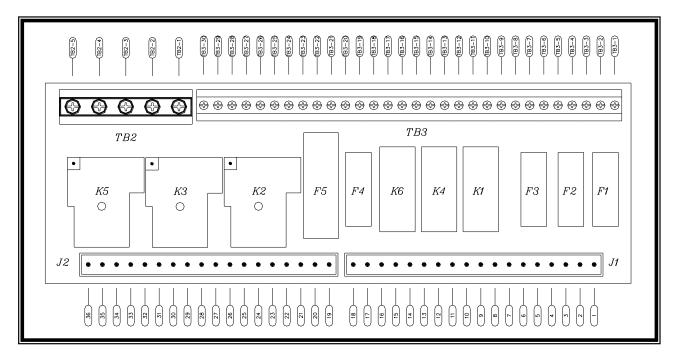
ECU-11 (12V) & ECU-22 (24V) RELAY MODULE OPERATORS MANUAL

1. Introduction

The Relay Module is the interface between the automatic engine control module ECU-02 and the generator. The ECU-11 & ECU-22 provides two 18 ways plugs to connect to ECU-02 module. All the protected fuses and power relays for engine

pre-heat, start, fuel, stop, and alarm output are pre-assembled on the relay module. Simply connect the control wires to the correct terminals on the module, thus minimizing assembly time and potential for errors when assembling and installing the engine control wires.

2. ECU-11(12V) & ECU-22(24V) Connection Details



- 1. The plug J1 (Pin1 ~ Pin18) connected to the plug J1 of ECU-02.
- 2. The plug J2 (Pin19 ~ Pin36) connected to the plug J2 of ECU-02.

2.1 Terminal TB2 Power And 30 Amp Output Connections

PIN NO.	DESCRIPTION	NOTES
TB2-1	DC Plant Supply Input (-v)	System DC negative input. (Battery Negative). AWG10
TB2-2	DC Plant Supply Input (+v)	System DC positive input. (Battery Positive). AWG10
TB2-3	Fuel solenoid signal output Programmable to ET STOP or ET START	Controls the fuel solenoid or engine fuel control system. Supply (+v) 30 Amp rated.
TB2-4	Start signal output	Controls the Starter Motor. Supply (+v) 30 Amp rated.
TB2-5	Pre-heat signal output	Controls the engine pre heater Supply (+v) 30 Amp rated.

2.2 Terminal TB3

PIN NO.	DESCRIPTION	NOTES
TB3-1	Generator L3 sensing input	Connect to alternator L3 output.
TB3-2	Not Used	Spare.
TB3-3	Generator L2 sensing input	Connect to alternator L2 output.
TB3-4	Not Used	Spare.
TB3-5	Generator L1 sensing input	Connect to alternator L1 output.
TB3-6	Not Used	Spare.
TB3-7	Warm up signal Output	Used to control the Warm up contactor. 5 Amp rated.
TB3-8	Warm up signal Output	Used to control the Warm up contactor. 5 Amp rated.
TB3-9	CT secondary for L3	Connect to secondary of L3 monitoring CT.
TB3-10	CT secondary for L3	Connect to secondary of L3 monitoring CT.
TB3-11	CT secondary for L2	Connect to secondary of L2 monitoring CT.
TB3-12	CT secondary for L2	Connect to secondary of L2 monitoring CT.
TB3-13	CT secondary for L1	Connect to secondary of L1 monitoring CT.
TB3-14	CT secondary for L1	Connect to secondary of L1 monitoring CT.
TB3-15	Remote start input	Connect to A.T.S remote start contact.
TB3-16	Remote start input	Connect to A.T.S remote start contact.
TB3-17	Auxiliary signal Output	Energize to start. (+v) 5 Amp rated. (Not Programmable) for use with Electronic Governors, Battery charging alternator exciter. Etc.
TB3-18	Alarm signal Output	For use with an external alarm. Supply (+v) 5 Amp rated.
TB3-19	Emergency Stop Input	Connect to external emergency stop switch. (Panic Button)
TB3-20	Oil Pressure Input	Connect to Oil pressure sender.
TB3-21	Coolant Temperature Input	Connect to Coolant Temperature sender.
TB3-22	Overload sender Input	Connect to Overload sender.
TB3-23	Low fuel sender Input	Connect to low fuel indicator switch sensor.
TB3-24	Auxiliary Input 1	This is a negative switched configurable input with time out.
TB3-25	Auxiliary Input 2	This is a negative switched configurable input.
TB3-26	Auxiliary Input 3	This is a negative switched configurable input.
TB3-27	Auxiliary Input 4	This is a negative switched configurable input.
TB3-28	Not Used	Spare.
TB3-29	Magnetic Pick-up Input (+v)	Connect to Magnetic Pickup device. AC signal from the magnetic pick-up for speed sensing.
TB3-30	Magnetic Pick-up Input (-v)	Connect to Magnetic Pickup device. AC signal from the magnetic pick-up for speed sensing.

3. ECU-11(12V) & ECU-22(24V) Typical Wiring Diagram

