Setup shows wiring for one channel. Use same configuration for remaining channels. BLUE, 7 INCH, LABEL "12V ON", 18AWG RED, 7 INCH, LABEL "COIL 1", 18AWG WHITE, 7 INCH, LABEL "TTL 2", 18AWG WHITE, 7 INCH, LABEL "TTL 1", 18AWG RED, 7 INCH, LABEL "COIL 2", 18AWG CONNECTOR, FRONT FACE - PLASTIC LOOM - BLACK PLASTIC LOOM - BLACK -RED, 7 INCH, LABEL "COIL 4", 18AWG WHITE, 7 INCH, LABEL "TTL 3", 18AWG RED, 7 INCH, LABEL "COIL 3", 18AWG WHITE, 7 INCH, LABEL "TTL 4", 18AWG BLACK, 7 INCH, LABEL "COIL GND", 16AWG BLACK, 7 INCH, LABEL "GND", 18AWG Channel 1 ECU TTL Output *see note 3 Ignition System Ground *see note 2 (BLACK WIRE) **NeXT 4 CHANNEL** IMPORTANT!!!! INDUCITVE IGNITION UNIT Do not power on ignitor without ECU TTL wires being wired in or damage may **Ignition System Power** Ignition Coil Channel 1 result. Inputs should not be floating. Battery +12VDC Power Wire (RED) Ground any unused channels. (WHITE *see note 1 WIRES) **BLUE 12V REMOTE ON** NOTE BLACK GND Mission Systems NeXT igniter was developed in house for NASA's rocket thruster program for high output and low noise and includes a full limited lifetime warranty. NOTE 1 - Connect to battery post or alternator power cable. Wire in 40 amp relay to switch ignition energy on during keystart (+12V POWER). This wire connects ALL power to the ignition **IGNITION COIL 1** coils and is also where PowerCELL should be connected for high output situations. NOTE 2 - Use engine, chassis or negative battery post for ground point. When not grounding to battery be sure that heavy gauge wire is used to ground engine and chassis to negative battery post. The head of the engine is preferred. NOTE 3 - Square Wave line Input required with voltage of 2.8 -12 volts DC. Ignitor fires on falling edge trigger and charges based on duty cycle of the period. NeXT Gen MISSION IGNITION SYSTEMS Typical dwell time for Coil On Plug units is 1.8 and 3.2 for **IGNITOR** typical ignition coils. Contact Mission Systems for dwell times. Revision B WIRING