

XTALK NETWORK

P5	
1	--MOLEX PLUG--
2	--MOLEX PLUG--
3	--MOLEX PLUG--
4	--MOLEX PLUG--
5	--MOLEX PLUG--
6	--MOLEX PLUG--
7	--MOLEX PLUG--
8	--MOLEX PLUG--
GUARD	

Connector is Molex #19418-0023
Pins are Molex #19420-0009
Mates with J5 on EnerMatic Engine Controller
All connector wires are #16 AWG
Plug Molex #19417-0119

P4	
Tx_0	1
Rx_0	2
Gnd	3
Tx_1	4
Rx_1	5
Gnd	6

Connector is Molex #19418-0021
Pins are Molex #19420-0009
Mates with J4 on EnerMatic Controller
All connector wires are #16 AWG

P3	
B1_VOLTS	1
FIELD VOLTS	2
IGNITION INPUT 0	3
IGNITION INPUT 1	4
ERROR OUT(+)	5
STATUS OUT(+)	6
SOLAR OUT(+)	7
WIND OUT(+)	8
TOD_OUT(+)	9
B1T(-)	10
ASHA	11
ASHG	12
BSHG	13
BSHB	14
B1T(+)	15
PARALLEL OUT(+)	16

Connector: Molex #19418-0039
Pins are Molex #19420-0009
Mates with J3 on EnerMatic Engine Controller
All connector wires are #16 AWG
Plug Molex #19417-0119

P2	
B+	1
12V_PWR	2
Ground	3
Ground	4

Connector: Molex #19418-0025
Pins are Molex #19420-0009
Mates with J2 on EnerMatic Engine Controller
All connector wires are #16 AWG

P1	
Water Temp. Switch	1
Water Temp. Switch Return	2
Water Temp. Sensor Signal	3
Water Temp. Sensor Return	4
Oil Pressure Switch	5
Oil Pressure Switch Return	6
Oil Pressure Sensor Signal	7
Oil Pressure Sensor Return	8
Gear Tooth Sensor (12V_PWR)	9
Gear Tooth Sensor Signal	10
Gear Tooth Sensor Return	11
Fuel and Oil Sender (12V_PWR)	12
Fuel Sender Signal	13
Fuel Sender Return	14
Oil Level Sender Signal	15
Oil Level Sender Return	16

Connector: Molex #19418-0039
Pins are Molex #19420-0009
Mates with J1 on EnerMatic Engine Controller
All connector wires are #16 AWG
Plug Molex #19417-0119

P6	
Y0	1
Z0	2
Y1	3
Z1	4
Ground	5
5V	6
Ground	7
5V	8

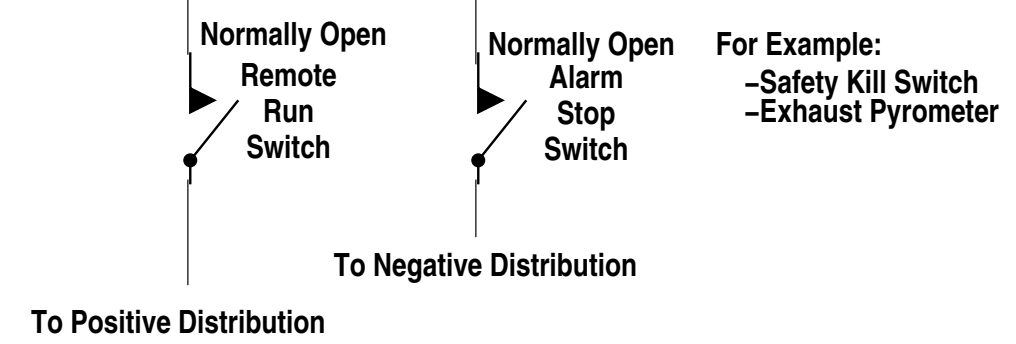
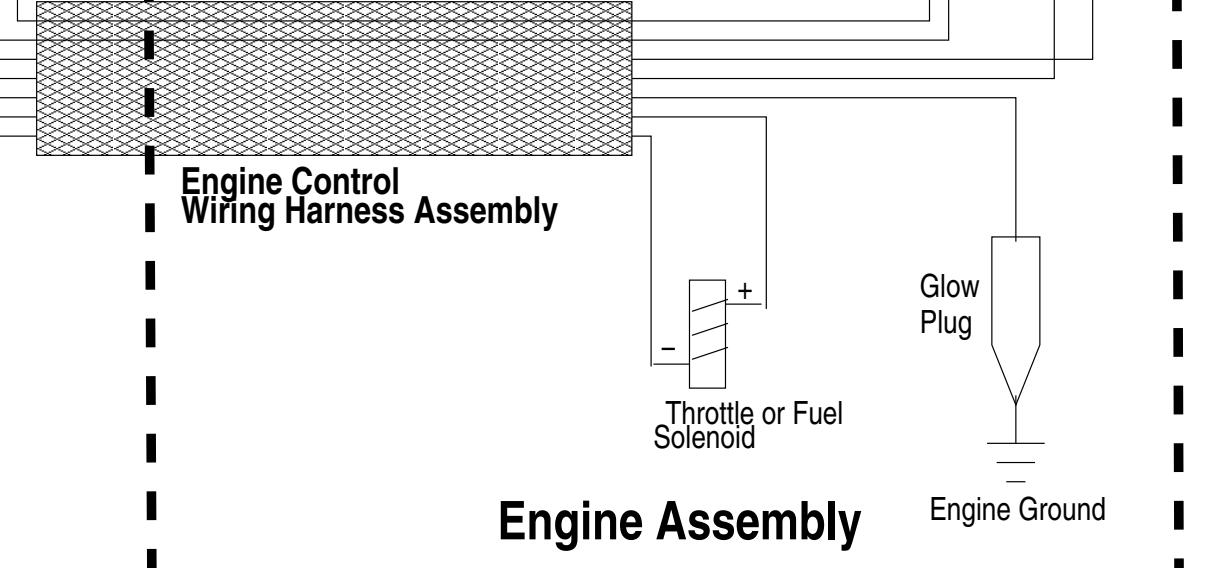
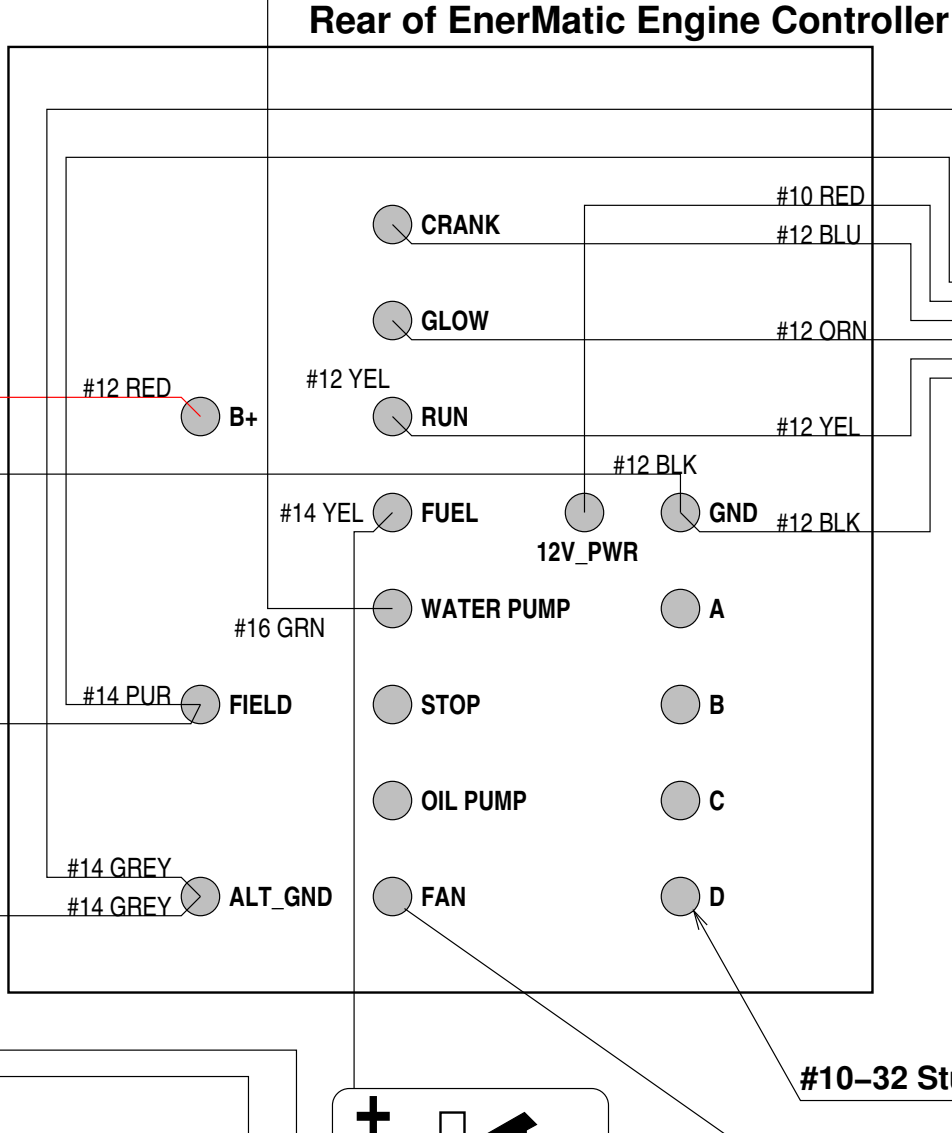
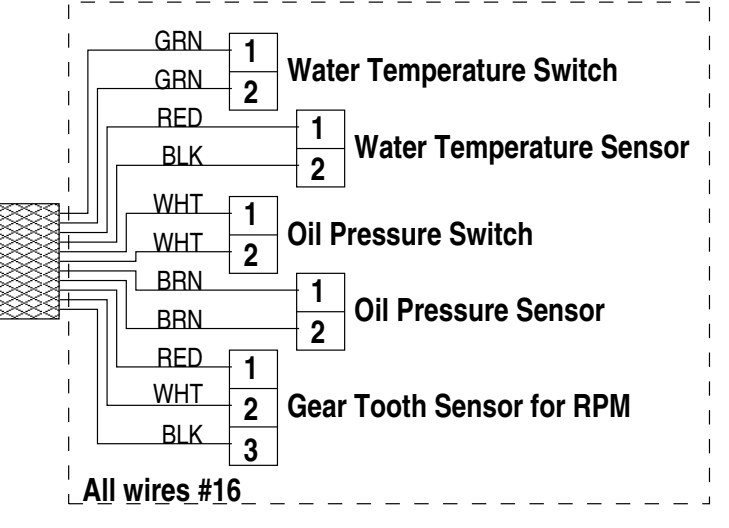
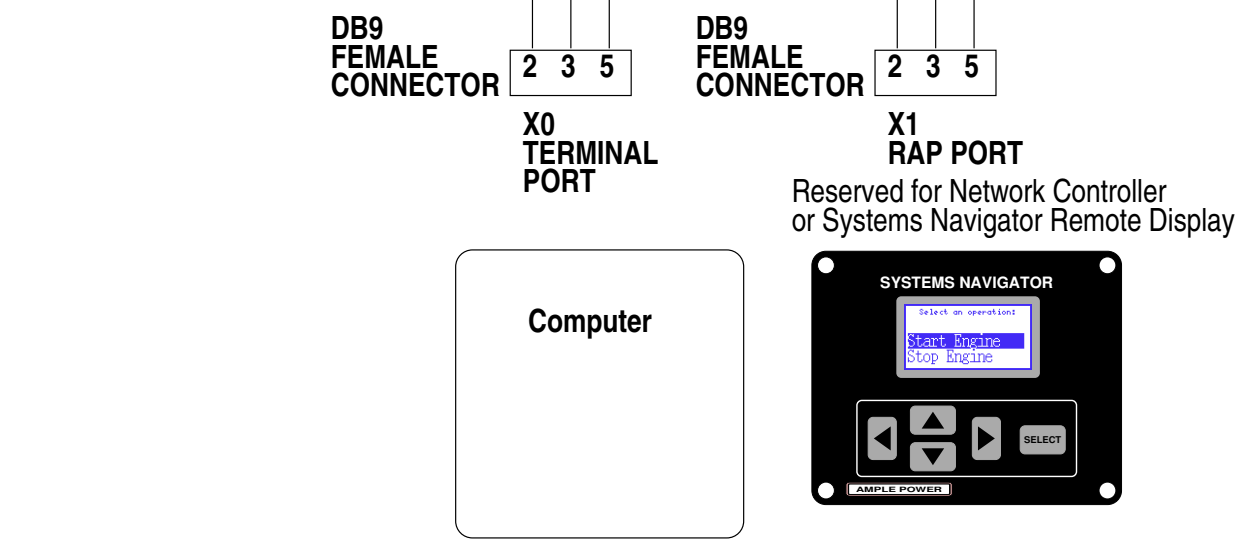
Connector is Molex #19418-0023
Pins are Molex #19420-0009
Mates with J6 on EnerMatic Engine Controller
All connector wires are #16 AWG
Plug Molex #19417-0119

P7	
T1_IN	1
T2_IN	2
AUXV_IN	3
V3_IN	4
BB_LINE	5
AOUT	6
Ground	7
5V	8

Connector is Molex #19418-0023
Pins are Molex #19420-0009
Mates with J7 on EnerMatic Engine Controller
All connector wires are #16 AWG
Plug Molex #19417-0119

P8	
Emergency Stop Input	1
Remote Run Input	2
TOD2 OUT	3
Temperature 2(+)	4
Limit (Closed) Input	5
Limit (Open) Input	6
Ground	7
Watchdog Output	8

Connector is Molex #19418-0023
Pins are Molex #19420-0009
Mates with J8 on EnerMatic Engine Controller
All connector wires are #16 AWG
Plug Molex #19417-0119



Notes:
Pyrometer switch required to protect exhaust over-temperature due to loss of water flow
All wires to P1 thru P8 shall be #16 AWG Marine Grade wire.
Color codes are suggested and make troubleshooting easier.
Heavy current wires must be sized according to length.
Many other electrical circuits exist alongside those shown here.
Proper fusing is mandatory.
Wire exactly as shown - DO NOT combine wires.