

XTALK NETWORK

1	DIO	1	-MOLEX PLUG-
2	n/c	2	-MOLEX PLUG-
3	BUS0L	3	-MOLEX PLUG-
4	BUS0H	4	-MOLEX PLUG-
5	BUS1L	5	-MOLEX PLUG-
6	BUS1H	6	-MOLEX PLUG-
7	NET_GND	7	-MOLEX PLUG-
8	GUARD	8	-MOLEX PLUG-

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

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

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

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

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

1	B+	1	
2	12V_PWR	2	
3	Analog Ground	3	
4	Ground	4	

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

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

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

1	Y0	1	-MOLEX PLUG-
2	Z0	2	-MOLEX PLUG-
3	Y1	3	-MOLEX PLUG-
4	Z1	4	-MOLEX PLUG-
5	Ground	5	
6	5V	6	-MOLEX PLUG-
7	Ground	7	-MOLEX PLUG-
8	5V	8	-MOLEX PLUG-

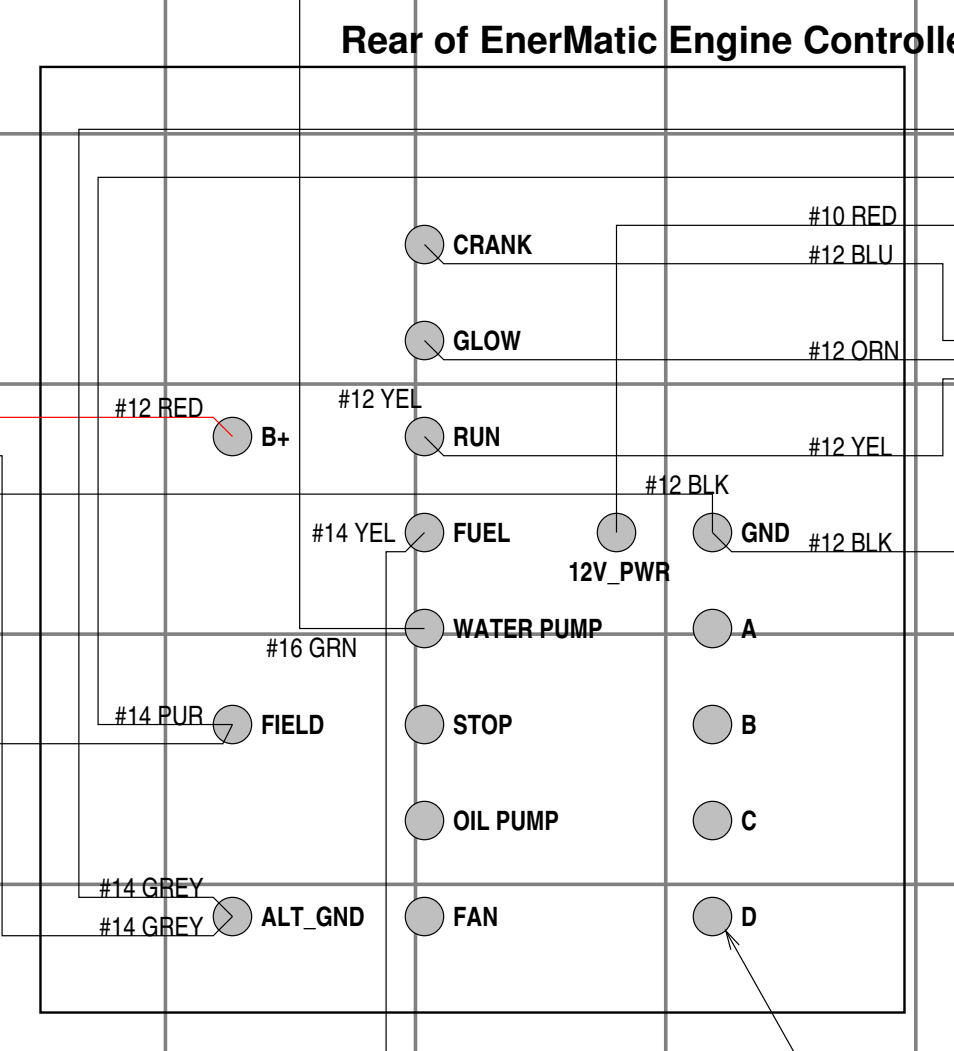
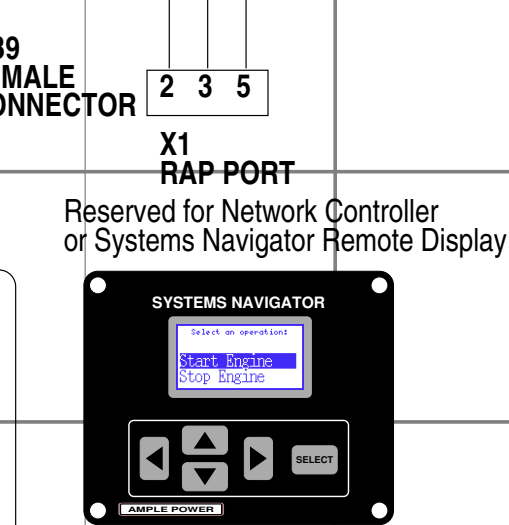
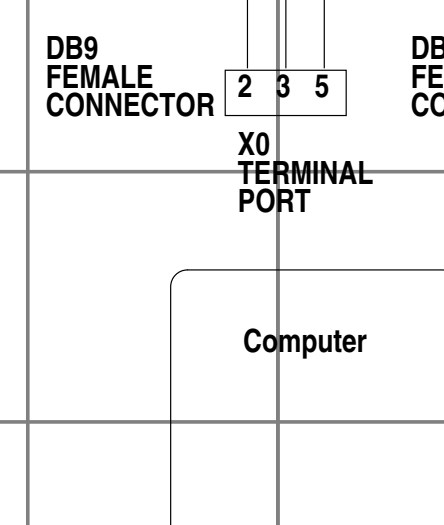
Connector is Molex #19418-0023
Pins are Molex #19420-0009
Mates with J6 on EnerMatic Engine Controller
All connector wires are #16 AWG
Plug Molex #19417-0119

1	T1_IN	1	-MOLEX PLUG-
2	T2_IN	2	-MOLEX PLUG-
3	AUX_IN	3	-MOLEX PLUG-
4	V3_IN	4	-MOLEX PLUG-
5	BB_LINE	5	-MOLEX PLUG-
6	AOUT	6	-MOLEX PLUG-
7	Ground	7	-MOLEX PLUG-
8	5V	8	-MOLEX PLUG-

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

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

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.