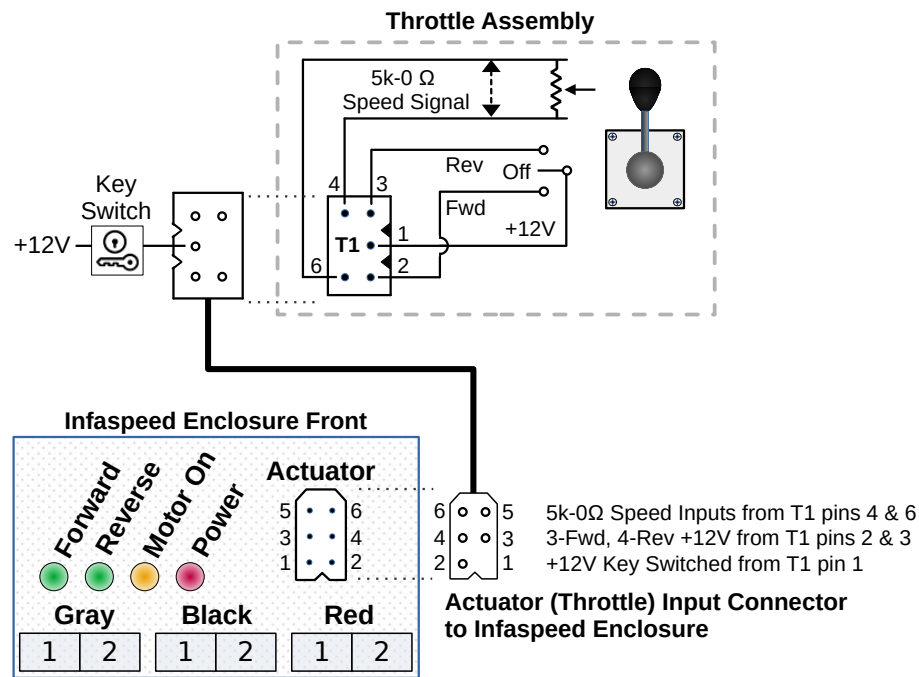


Duffy Infaspeed Throttle

For 2002 Duffy Classic and Similar Boats



LED Label	LED should be on when	Indicates
Power	Key switch is on	Connections to the Infaspeed box are providing + and - 12V to the motor controller and fan.
Motor On	Key switch is on and throttle is in either forward or reverse	Either the forward or reverse contactor coil is receiving +12V to energize it. It does not indicate that either contactor is working properly. This LED indication is only useful if either the forward or reverse LEDs are not functioning.
Reverse	Key switch is on and throttle is in reverse	The reverse contactor coil is receiving +12V to energize it. It does not indicate that the contactor is working properly.
Forward	Key switch is on and throttle is in forward	The forward contactor coil is receiving +12V to energize it. It does not indicate that the contactor is working properly.

If the LED indications are correct, check continuity between J2 pins 5 and 6 to measure the throttle speed input signal. Correct values are 5kΩ in neutral, gradually falling to near 0Ω at full throttle in both forward and reverse.

Any loss of signal from the throttle (+/-12V, 5k-0Ω speed signal, or +12V forward/reverse) will cause the motor controller to fail safe and shut off the motor.

The motor controller will also fail safe if it does not receive a signal that it is in neutral (no +12V forward or reverse signal) before switching to forward or reverse, as would occur if the key switch is turned on when the throttle is in either forward or reverse.