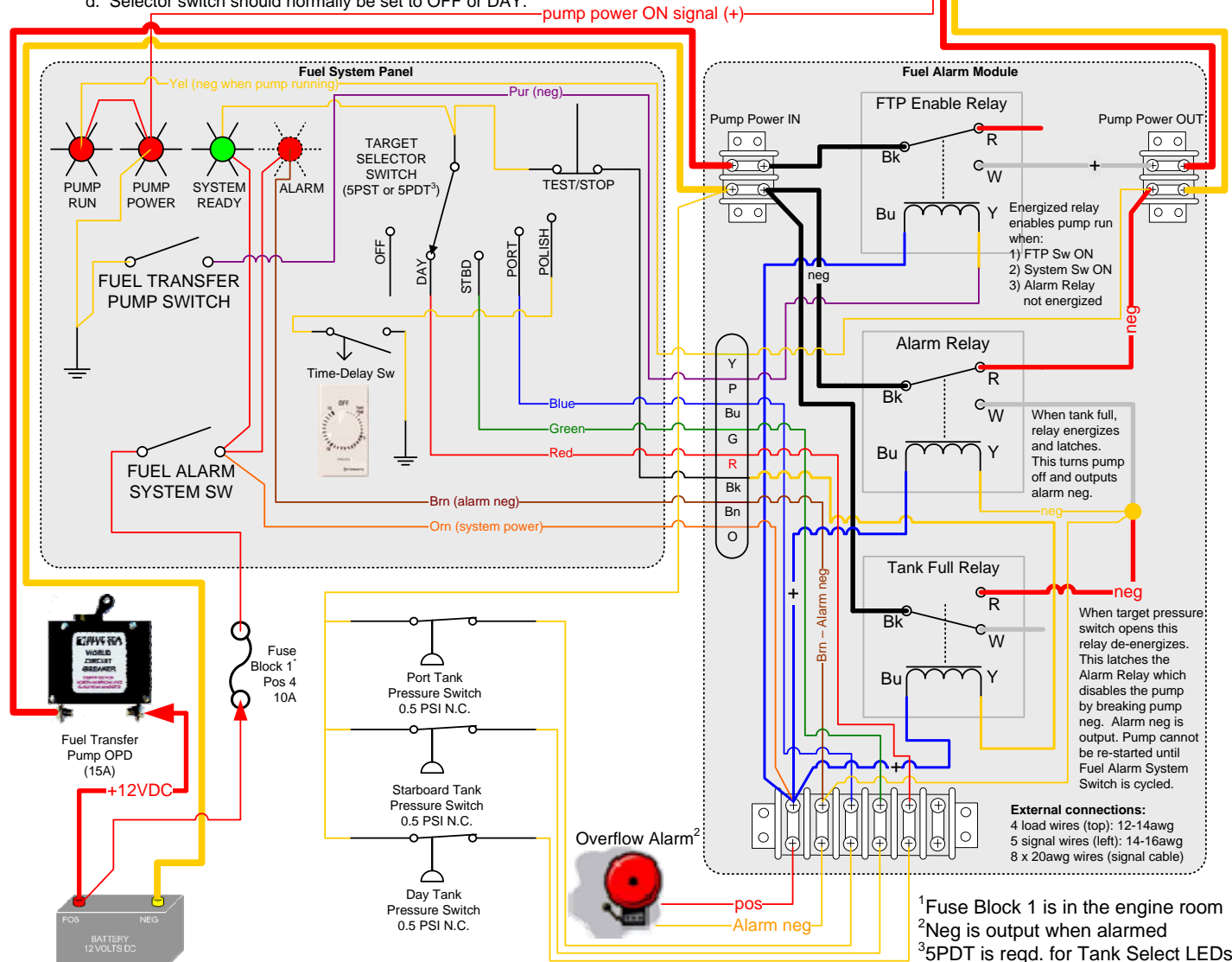
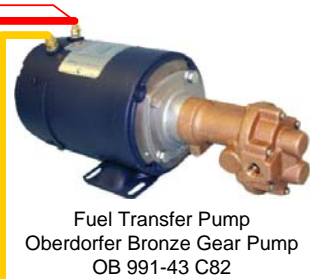


FUEL TRANSFER PUMP AUTOMATIC SHUTOFF FOR TANK OVERFLOW PREVENTION

- Pressure switches
 - Mounted in vent line at tank level or in top of tank.
 - Normally Closed Switch will open when pressure reaches 0.5 PSI = approx 200 mm (8") of head.
- Operation (Filling)
 - Fuel Alarm System Switch ON. Fuel Transfer Pump Switch OFF. Target Selector Switch set to tank being filled.
 - When tank is full, fuel is pumped up the vent line; pressure switch opens almost immediately.
 - Alarm goes off. Stop filling. Select new target tank. Reset Fuel Alarm Switch to unlatch the Tank Full relay.
- Operation (Fuel Transfer)
 - Fuel Alarm System Switch ON. Fuel Transfer Pump Switch ON. Target Selector Switch set to tank receiving the fuel.
 - When tank is full, fuel is pumped up the vent line; pressure switch opens almost immediately.
 - Alarm goes off and Fuel Transfer Pump is disabled.
 - Alarm Relay is latched in activated position to keep pump disabled.
 - Pump will not restart until Target Selector Switch is re-set to a new, non-full tank and the System Switch is reset.
- Operation (Polishing or Pumping to External)
 - Fuel Alarm System Switch ON. Fuel Transfer Pump Switch ON. Target Selector Switch set to POLISH.
 - The Fuel Transfer Pump can now be run regardless of tank level.
 - Turn Time-Delay Switch to set polishing time.
 - Never** leave the Target Selector Switch in POLISH mode when done polishing.
 - Always leave the switch set to OFF (best) or to the DAY target tank.
- Failure Mode
 - This is a fail-safe circuit; if a pressure switch has a disconnected wire, the pump will not run.
 - The Fuel Transfer Pump will not run unless both the Fuel Alarm System Switch and the FTP Switch is ON.
- Target Selector Switch
 - Pump will not run unless the target tank is selected: DAY, STBD, or PORT; or if in POLISH mode.
 - If target is DAY, STBD, or PORT the pump will automatically shut down when that tank is full.
 - Note that if pumping to EXT, then Target Selector Switch can be set to any non-full tank or POLISH
 - Selector switch should normally be set to OFF or DAY.



TITLE	PAGE	REV.	DESCRIPTION	DATE	BY
S/V BEATRIX - KELLY-PETERSON 44 #286 (1980) DC Wiring Schematics - Fuel Tank Overflow Prevention Circuit (Failsafe Version)	17 OF 24	I	Set alarm & stop Pump at Tank Full	4/14/2011	JMS