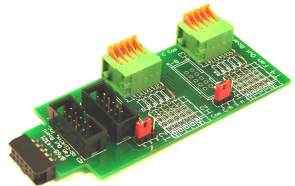


## FOB-A 8 line Fan Out Board User's Guide

### I/O Modules

All RR-CirKits Tower Controller I/O modules are designed to either be plugged directly into the TC-64, or else mounted in Tyco 3-1/4" Snap-Track® mounted to the bench work and connected with short ribbon cables. (Snap-Track® is a plastic channel designed to mount PC cards to a chassis, not something to run trains on.) This I/O module is equipped with three connectors to facilitate these connection options and allow for pass through wiring.



#### FOB-A (8 line Fan Out Board)

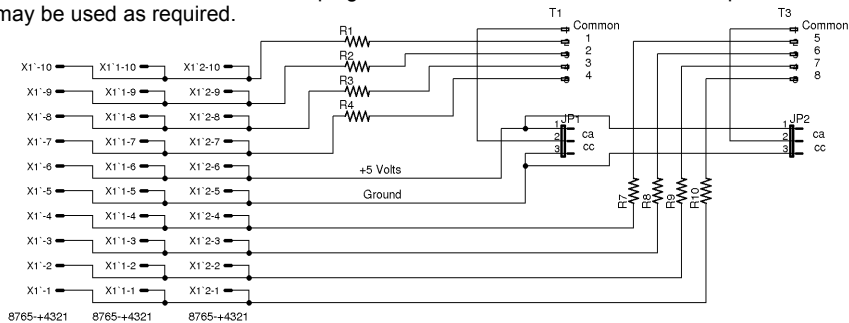
The FOB-A board contains 2 five output compression connectors. Each individual line has a position to mount a series limiting resistor for individual LEDs. Each common connection may be jumper selected as +5 volts or Ground.

The FOB-A may be used as a fan out point for a TC-64 port, or as a connection point for up to 4 two or three wire searchlight signals driven by a SDB-4 Searchlight Driver Board. The output compression connectors used on this board allow connections to wire from #18 AWG to #40 AWG. For smaller wire sizes, first press back on the orange lever to release, then poke home the wire. Release the lever, and gently pull on the wire to be sure it was captured properly.

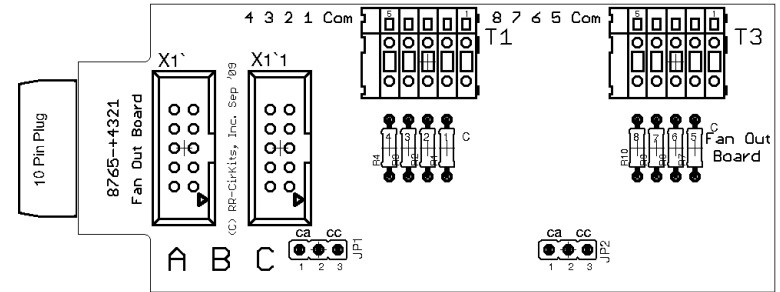
The FOB-A input lines may be used as active low or active high as determined by the common connection jumper selections. The TC-64 should be configured as "Driver" for any port that is directly connected to a FOB-A driving LEDs. The FOB-A may also be used as a collection point for input contacts or sensors. In that case use jumpers or low value resistors in the resistor points and Gnd (cc) on the common connection jumper blocks.

### Connections

There are three inputs and two output connectors on the FOB-A board. The first three input connections are the standard TC-64 10 pin cable connections shared by all Tower Controller I/O modules. A female plug and two male header connections are provided, and may be used as required.



### Connection Identification



### Input Connector Pin Identification

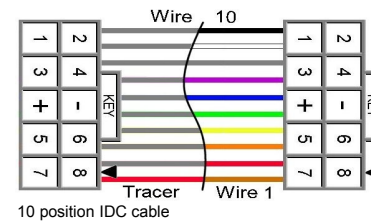
The port connector wiring is as follows.

Pin number	Connection
1	h (line 8)
2	g (line 7)
3	f (line 6)
4	e (line 5)
5	Ground
6	+5VDC
7	d (line 4)
8	c (line 3)
9	b (line 2)
10	a (line 1)

### Output Headers Connection

The Output wiring is shown below.

Pin number	Connections
T1-1	JP1 Common
T1-2	Line 1
T1-3	Line 2
T1-4	Line 3
T1-5	Line 4
T3-1	JP2 Common
T3-2	Line 5
T3-3	Line 6
T3-4	Line 7
T3-5	Line 8



### Power Connections

To supply power to the Common outputs select either +5 (ca) or Gnd (cc) on the jumper selection blocks. Each output connector has its own selection option.

### RR-CirKits Contact Information

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