



# Replacing RIK0056B with the RIK0218A SP4T Switches

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Since the RIK0218A replaces the RIK0056B, the fixture assembly documentation must be updated to reflect the new Jumper locations due to a physical layout change on the board which swapped the throw sides of the switch. The programming logic remains the same, only the cable connections change.

NOTE: This swap can only be done on fixtures having RIK0200A RIFL carriers or higher (3.5v max on DS lines).

## What to Do:

1. Move cables to appropriate ports:
  - Common ports move straight across
  - Cable on J1 RIK0056B moves to J2 on RIK0218A
  - Cable on J2 RIK0056B moves to J9 on RIK0218A
  - Cable on J4 RIK0056B moves to J11 on RIK0218A
  - Cable on J6 RIK0056B moves to J4 on RIK0218A
  - Cable on J9 RIK0056B moves to J1 on RIK0218A
  - Cable on J10 RIK0056B stays at J10 on RIK0218A
  - Cable on J11 RIK0056B moves to J6 on RIK0218A
  - Cable on J12 RIK0056B stays at J12 on RIK0218A
  
2. Do not use "J" switch port designators in the fixture definition, use logical path names instead like "DutP4Rf3".

## Reference Documents

Path Equivalency:

RIK0056B	Code String		RIK0218A	Code String
<b>SW1</b>				
J5 Common - J4	00XX		J5 Common - J11	00XX
J5 Common - J6	01XX		J5 Common - J4	01XX
J5 Common - J11	10XX		J5 Common - J6	10XX
J5 Common - J12	11XX		J5 Common - J12	11XX
<b>SW2</b>				
J3 Common - J1	XX01		J3 Common - J2	XX01
J3 Common - J2	XX00		J3 Common - J9	XX00
J3 Common - J9	XX10		J3 Common - J1	XX10
J3 Common - J10	XX11		J3 Common - J10	XX11

## RIK0056B SP4T RF Switch



**RIK0056B Pin Out:**

Pin#	Function	DS1	DS2	DS3	DS4	Connector Type
P2:12	+5V					Header Pin
P2:11	-5V					Header Pin
P1:12	DS1					Header Pin
P1:13	DS2					Header Pin
P1:14	DS3					Header Pin
P1:15	DS4					Header Pin
P1:16	Grnd					Header Pin
J1	SW2 NO	X	X	0	1	MCX Female
J2	SW2 NO	X	X	0	0	MCX Female
J3	SW2 Common					MCX Female
J4	SW1 NO	0	0	X	X	MCX Female
J5	SW1 Common					MCX Female
J6	SW1 NO	0	1	X	X	MCX Female
J9	SW2 NC	X	X	1	0	MCX Female
J10	SW2 NO	X	X	1	1	MCX Female
J11	SW1 NC	1	0	X	X	MCX Female
J12	SW1 NO	1	1	X	X	MCX Female

**RIK0218A Pin Out / Truth Table:**

Pin#	Function	DS1	DS2	DS3	DS4	Connector Type
P2:12	+5V					Header Pin
P2:11	-5V					Header Pin
P1:12	DS1					Header Pin
P1:13	DS2					Header Pin
P1:14	DS3					Header Pin
P1:15	DS4					Header Pin
P1:16	Grnd					Header Pin
J1	SW2 NC	X	X	1	0	MCX F
J2	SW2 NO	X	X	0	1	MCX F
J3	SW2 Common					MCX F
J4	SW1 NO	0	1	X	X	MCX F
J5	SW1 Common					MCX F
J6	SW1 NC	1	0	X	X	MCX F
J9	SW2 NO	X	X	0	0	MCX F
J10	SW2 NO	X	X	1	1	MCX F
J11	SW1 NO	0	0	X	X	MCX F
J12	SW1 NO	1	1	X	X	MCX F

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