

If your application is different than those shown in the examples, this worksheet will help you to determine the proper settings for jumper JU1 and dip switch S2 in the R*I*C*K. If there is any confusion with the terms then consult the "Glossary" section of this manual.

All dip switch sections should be OFF before starting the worksheet.

1. Is the repeater supposed to be in the "setup" state at power-up?

yes: place JU1 across pins 1 and 2 of J6.

no: place JU1 across pins 2 and 3 of J6.

2. Is the repeater unidirectional or bi-directional?

unidirectional: Will the "PL/DPL and CSQ" (COR) function be programmed on pin 8 or pin 14 of the accessory connector, J3, of the "receiver" radio? (Use the pin that is used by any accessory connected to "J4-ACC" or use pin 8.)

pin 8: S2-1 OFF
S2-2 OFF
S2-3 ON

pin 14: S2-1 OFF
S2-2 ON
S2-3 OFF

bi-directional: S2-1 ON
S2-2 ON
S2-3 OFF
S2-10 OFF
S2-11 ON

NOTE: J3 pin 14 of the "receiver" radio and J3 pin 8 of the "transmitter" radio must be programmed for "PL/DPL and CSQ Detect" (OUTPUT direction, active LOW).

3. Will the remote repeater setup/knockdown be used? (See the "Setup/Knockdown Operation" section of this manual.)

yes: S2-4 ON

no: S2-4 OFF

4. Is the "transmitter" radio an M100 or an M400?

yes: S2-5 OFF
S2-6 ON
S2-8 ON
S2-9 OFF
Proceed to step 7.

no: Continue on to the next question.

5. Are any of the signaling features contained in the "RapidCall" package going to be transmitted through the repeater to the field radios?

yes: S2-5 ON
S2-6 OFF
S2-7 OFF
S2-8 OFF
S2-9 ON

no: Continue on to the next question.

NOTE: All signaling (PL, DPL and RapidCall) will be generated by the field radios. The "transmitter" radio of the repeater must be programmed to transmit "CSQ".

6. Will the repeater receive and transmit the same PL tones (or DPL codes)?

___ yes: Do you want the "transmitter" radio to generate the tone (or code)?

___ yes: S2-5 OFF (JU551 in the M200 series
S2-6 ON radios must be moved
S2-8 ON to the "B" position.)
S2-9 OFF

___ no: S2-5 ON (JU551 in the M200 series
S2-6 OFF radios must be moved
S2-7 OFF to the "A" position.)
S2-8 OFF
S2-9 ON

___ no: S2-5 OFF (JU551 in the M200 series
S2-6 ON radios must be moved to
S2-8 ON the "B" position.)
S2-9 OFF

7. Is the "receiver" radio an M100?

___ yes: S2-7 ON You are setting up the "VLC"
S2-11 OFF repeater (ONLY unidirectional
S2-12 ON configuration).

___ no: If the "transmitter" radio is an M100 or M400 then JU551 in the M200 series radios must be moved to the "B" position.

8. What is the desired drop-out delay: 0, 1.5 or 3 seconds?

NOTE: A 0 second drop out delay is mandatory for a bi-directional repeater. A 1.5 or 3.0 second drop out delay is mandatory in the "VLC" repeater.

___ 0 seconds: S2-10 ON
S2-11 ON

___ 1.5 seconds: S2-10 ON
S2-11 OFF

___ 3.0 seconds: S2-10 OFF
S2-11 OFF