

# DDUtil SO2R Logic Matrix

<b>SO2R Operation (see note 1)</b>															
SO2R	Single	RX1	Amp Follows			TX VFO		Amp1		BCD Amp2		Antenna			Operational Notes
Enab	Amp	Tap	RX1	RX2	Both	A	B	Freq	PTT	Freq	PTT	RX1	RX2	TX	
x		*	x			x		A	x	****		***	***	***	Native amp follows RX1, BCD amp connection dependent
x		*	x				x	A		****	x	***	***	***	Native amp follows RX1, BCD amp connection dependent
x		*		x		x		B	x	****		***	***	***	Native amp follows RX2, BCD amp connection dependent
x		*		x			x	B		****	x	***	***	***	Native amp follows RX2, BCD amp connection dependent
x		*	n/a	n/a	n/a	x		A	x			B			BCD amp1 follows RX1, BCD amp2 follows RX2
x		*	n/a	n/a	n/a		x	A				B	x		BCD amp1 follows RX1, BCD amp2 follows RX2
x	x	*			x	x		A	x	n/a	n/a	***	***	***	Single Amp operation
x	x	*			x		x	B	x	n/a	n/a	***	***	***	Single Amp operation
<b>Native operation (non-SO2R)</b>															
Amp	Auto	1 Key	Amp Follows			TX VFO		Amp1/2		Antenna			Operational Notes		
Select	Drive	Line	RX1	RX2	Both	A	B	Freq	PTT			RX1		RX2	TX
1	**				x	x		A	1			***	***	***	TX VFO = A
1	**				x		x	B	1			***	***	***	TX VFO = B
2	**				x	x		A	2			***	***	***	TX VFO = A
2	**				x		x	B	2			***	***	***	TX VFO = B
1/2	**	x			x	x		A	**			***	***	***	TX VFO = A
1/2	**	x			x		x	B	**			***	***	***	TX VFO = B
<b>Notes:</b>															
1.	<b>SO2R Enable and 1 Key Line are mutually exclusive:</b>														
	1 Key Line is intended for <b>NON-SO2R</b> operation so users can select from 2 amps using 1 key line.														
	Use Single Amp option on SO2R tab.														
2.	<b>SO2R amp 1 can be DDUtil supported, BCD switched or manual tuned.</b>														
3.	<b>SO2R amp 2 can be BCD switched or manual only.</b>														
*	If RX1Tap is checked and bands are the same : RX2 ant = RX1Tap, Tx Ant = VFO A TX ant, PTT = Amp1														
**	Defined by native amp selection.														
***	User defined settings.														
****	SO2R matrix setting and connection defined.														