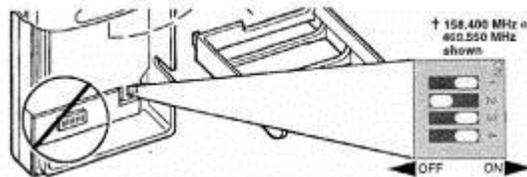


Motorola Spirit, Sport, and SP10 Frequency and "PL" DIP Switches

SP10, Spirit, Sport Basic and HandiCom (Does not apply to Sport 10, 10X, or HandiCom 10) Radios have a set of "DIP" switches to select the radio operation frequency. The switches are located under the battery on the right hand side. Frequency selection switches are in a single bank of 4, and can set to either "on" or "off". Radios with the optional "PL" board (sometimes called, CTCSS, "interference eliminator", coded squelch, or privacy board) have a second set of switches also located under the battery. "PL" selection switches are in a single bank of 8.



Motorola Radius SP10

SP10 VHF

Freq.	Label	Switch 1	Switch 2	Switch 3	Switch 4
151.625	RED	ON	ON	OFF	OFF
151.655		OFF	ON	ON	ON
151.685		ON	OFF	ON	OFF
151.715		OFF	ON	OFF	ON
151.775		OFF	ON	ON	OFF
151.805		ON	OFF	OFF	ON
151.835		ON	ON	OFF	ON
151.895		OFF	OFF	ON	OFF
151.925		ON	ON	ON	OFF
151.955	PURPLE	OFF	OFF	ON	ON
154.490		OFF	OFF	ON	ON
154.515		ON	OFF	OFF	OFF
154.540		OFF	OFF	OFF	ON
154.570	BLUE	OFF	OFF	OFF	OFF
154.600	GREEN	ON	ON	ON	ON
158.400		ON	OFF	ON	ON

SP10 UHF

Freq.	Label	Switch 1	Switch 2	Switch 3	Switch 4
462.575		OFF	ON	OFF	ON
462.625		OFF	ON	ON	OFF
462.675		ON	OFF	OFF	ON
464.325		ON	ON	OFF	ON
464.500	BROWN	OFF	OFF	ON	ON

464.550	YELLOW	ON	ON	OFF	OFF
464.825		OFF	OFF	ON	OFF
467.7625	J	ON	ON	ON	ON
467.8125	K	OFF	OFF	OFF	OFF
467.850	SILVER*	ON	ON	ON	OFF
467.875	GOLD*	OFF	OFF	OFF	ON
467.900	RED*	ON	OFF	OFF	OFF
467.925	BLUE*	OFF	ON	ON	ON
469.2625		ON	OFF	ON	OFF
469.500		OFF	ON	OFF	OFF
469.550		ON	OFF	ON	ON

Motorola Spirit and Sport

VHF Spirit and Spirit Pro, SV10, SV11, SV21

Freq.	Label	Switch 1	Switch 2	Switch 3	Switch 4
151.625	RED	ON	ON	OFF	OFF
151.955	PURPLE	OFF	OFF	ON	ON
154.570	BLUE	OFF	OFF	OFF	OFF
154.600	GREEN	ON	ON	ON	ON

VHF Spirit Pro 2 Channel, SV12, SV22

Freq. 1	Freq. 2	Switch 1	Switch 2	Switch 3	Switch 4
151.625	154.600	OFF	OFF	OFF	OFF
151.625	154.570	OFF	ON	OFF	OFF
151.625	151.955	OFF	OFF	ON	OFF
154.600	154.570	OFF	ON	ON	OFF

UHF Spirit Pro+, SU21

Freq.	Label	Switch 1	Switch 2	Switch 3	Switch 4
464.500	BROWN	OFF	OFF	ON	ON
464.550	YELLOW	ON	ON	OFF	OFF
467.7625	J	ON	ON	ON	ON
467.8125	K	OFF	OFF	OFF	OFF
467.850	SILVER*	ON	ON	ON	OFF
467.875	GOLD*	OFF	OFF	OFF	ON
467.900	RED*	ON	OFF	OFF	OFF
467.925	BLUE*	OFF	ON	ON	ON

UHF Spirit Pro+ 2 Channel, SU22

Freq. 1	Freq. 2	Switch 1	Switch 2	Switch 3	Switch 4
464.550	464.500	OFF	OFF	OFF	OFF
467.7625 (J)	464.500	OFF	ON	OFF	OFF
464.550	467.8125(K)	OFF	OFF	ON	OFF
467.7625(J)	467.8125(K)	OFF	ON	ON	OFF
467.850	467.8125(K)	OFF	OFF	OFF	ON
464.500	467.925	OFF	ON	OFF	ON
467.7625(J)	467.925	OFF	OFF	ON	ON
467.850	467.925	OFF	ON	ON	ON

Sport, Sport SS, Handi-Com, Handi-Com SS UHF "GMRS"

Freq.	Channel #	Switch 1	Switch 2	Switch 3	Switch 4
462.5625	1	OFF	OFF	OFF	OFF
462.5875	2	ON	OFF	OFF	OFF
462.6125	3	ON	ON	ON	ON
462.6375	4	ON	ON	OFF	OFF
462.6625	5	OFF	OFF	ON	OFF
462.6875	6	ON	OFF	ON	OFF
462.7125	7	OFF	ON	ON	OFF
462.575	8	ON	ON	ON	OFF
462.625	9	OFF	OFF	OFF	ON
462.675	E/10	ON	OFF	OFF	ON

Spirit, Sport and SP10

Coded Squelch, "PL" Codes

Code	Freq.(Hz)	S1	S2	S3	S4	S5	S6	S7	S8
XZ	67.0	D	D	D	D	D	D	U	U
XA	71.9	U	D	D	D	D	D	U	U
WA	74.4	D	D	D	D	D	U	U	U
XB	77.0	U	U	D	D	D	D	U	U
WB	79.7	D	D	D	D	U	D	U	U
YZ	82.5	U	D	D	D	D	U	U	U
YA	85.4	D	D	D	D	U	U	U	U
YB	88.5	U	U	D	D	D	U	U	U
ZZ	91.5	D	D	D	U	D	D	U	U
ZA	94.8	U	D	D	D	U	D	U	U
ZB	97.4	U	D	D	U	D	U	U	U
1Z	100.0	U	U	D	D	U	D	U	U
1A	103.5	U	D	D	D	U	U	U	U
1B	107.2	U	U	D	D	U	U	U	U

2Z	110.9	U	D	D	U	D	D	U	U
2A	114.8	U	U	D	U	D	D	U	U
2B	118.8	U	D	D	U	D	U	U	U
3Z	123.0	U	U	D	U	D	U	U	U
3A	127.3	U	D	D	U	U	D	U	U
3B	131.8	U	U	D	U	U	D	U	U
4Z	136.5	U	D	D	U	U	U	U	U
4A	141.3	U	U	D	U	U	U	U	U
4B	146.2	U	D	U	D	D	D	U	U
5Z	151.4	U	U	U	D	D	D	U	U
5A	156.7	U	D	U	D	D	U	U	U
5B	162.2	U	U	U	D	D	U	U	U
6Z	167.9	U	D	U	D	U	D	U	U
6A	173.8	U	U	U	D	U	D	U	U
6B	179.9	U	D	U	D	U	U	U	U
7Z	186.2	U	U	U	D	U	U	U	U
7A	192.8	U	D	U	U	D	D	U	U
M1	230.5	U	U	U	U	D	D	U	U
M2	210.7	U	D	U	U	D	U	U	U
M3	218.1	U	U	U	U	D	U	U	U
M4	225.7	U	D	U	U	U	D	U	U
M5	233.6	U	U	U	U	U	D	U	U
M6	244.8	U	D	U	U	U	U	U	U
M7	250.3	U	U	U	U	U	U	U	U
DISABLE		X	X	X	X	X	X	X	D

Switch settings - "U" = Up, "D" = Down

The pinout for the PL board is below. A schematic of it can be found [here](#).

Pin	Function
1	GND
2	/MUTE (/ means active level LOW)
3	DISCRIMINATOR AUDIO (input)
4	TXPL (output)
5	/TXEN (input?)
6	/PTT (output)
7	+5 Vcc

If you need some part numbers to order replacement parts:

SP10

black housing (sp10 short)	1580656B04
black batt door w/o notch	1580657B01
black batt door w/notch	1580657B08
excuteon(radius sp10)for housing(1580656B04)	1380475C02

shadow bronze housing (short)	1580656B05
shadow bronze batt door w/notch	1580657B28

Spirit

jenny grey housing	1580604C02
jenny grey batt cover w/o notch	1580657B02
jenny grey batt cover w/notch	1580657B09

smoke grey housing	1580604C14
smoke grey batt cover w/o notch	1580657B29

orange housing	1580604C05
orange batt cover w/o notch	1580657B14

shadow bronze housing	1580604C06
shadow bronze batt cover w/notch	1580657B28

escutcheon (spirit pro)	1380611C01
escutcheon (spirit pro +)	1380611C02
escutcheon (spirit 2way)	1380611C03
escutcheon (pc10)	1380611C04
escutcheon (spirit pro sv12)	1380611C09
escutcheon (spirit pro+ su22)	1380611C10
escutcheon (spirit pro+ su21d)	1380611C14
escutcheon (spirit pro+ su22d)	1380611C16
escutcheon (spirit sv11)(WHEELER)	1380611C23
escutcheon (spirit sv22c)	1380611C28
escutcheon (spirit su22c)	1380611C29
escutcheon (spirit sv12)	1380611C31

batt tray	0780471C03
batt tray (short for charge contact)	0780444D02
batt tray charge flex (short)	8480447D01
mylar cover for batt tray	1380625C01
control bracket (mount for sp and mic)	1580653B01
batt cover latch (2 req)	55-5264T01

keypad (mon) red	7580469D01
keypad (mon) yellow	7580469D02
keypad (mon) black	7580469D03
keypad (mon) teal	7580469D06
keypad (mon) grey	7580469D07

Sport 10x

black housing (long batt)	1580614C17
black batt cover (long w/o notch)	1580606C21

camo housing (long)	1580614C09
camo batt cover (long)	1580606C12

sunstreak yellow housing (long)	1580614C19
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batt tray short batt long case w/o contacts	0780640C01
control top escutcheon 10 ch	1380654B08

Motorola advises batt tray for long (HNN-9018A) batt not available

Sport Talk About

camo housing (short)	1580612C16
camo batt cover (short w/ notches)	1580657B34

Handi Com 10

slate grey housing long	1580614C01
slate grey batt door w/o notches	1580606C03
front escutcheon (handicom)	1380638C01
front escutcheon (handicom 10)(HERDA)	1380638C03
knob 10 ch	3680584B08
control top escutcheon 10 ch	1380654B08
key pad (mon) teal	7580469D06

Late Spirit (voice assisted prog)*

dark grey housing (mu21cv)	1580689U01
dark grey batt door (mu21cv)w/notch	1580690U01
orange housing	1580689U02
orange batt door	1580690U02
lowe yellow housing	1580689U03
lowe yellow batt door	1580690U03
batt tray (mu21cv)	0780678U01

*no parts no service replacement only, \$110.00

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