

## Programming and wiring the *Channel Select* inputs on a 16-Channel GM300:

All 16 channels on a 16-Channel GM300 can be remotely selected through 5 pins on the 16-pin accessory connector.

- Step 1:** Using Radio Service Software, program the accessory connector as follows:  
From the Main Menu: select F4 (Change/View).  
From the Change/View Menu, select F2 (Radio Wide Configuration).  
From the Radio Wide Configuration screen, set ACC. External to "General I/O".  
Now select F9 (Other Accessory).  
On the Accessory Connector Configuration Screen, set pins 6,8,9,12 and 14 as:

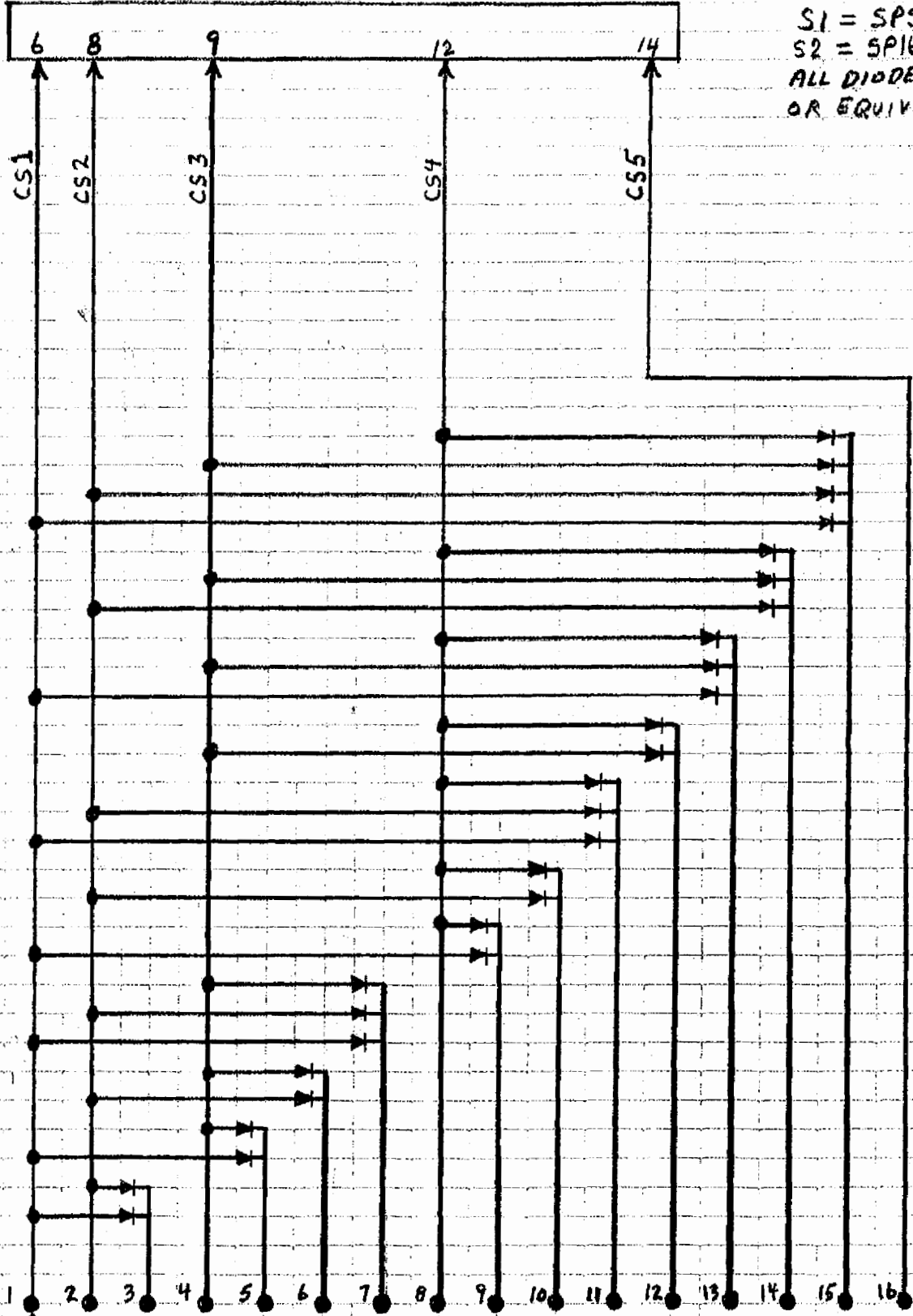
| <u>Pin #</u> | <u>DESCRIPTION</u> | <u>DATA DIR</u> | <u>DEBOUNCE</u> | <u>ACT LEVEL</u> |
|--------------|--------------------|-----------------|-----------------|------------------|
| 6            | Channel Select 1   | Input           | No              | Low              |
| 8            | Channel Select 2   | Input           | No              | Low              |
| 9            | Channel Select 3   | Input           | No              | Low              |
| 12           | Channel Select 4   | Input           | No              | Low              |
| 14           | Channel Select 5   | Input           | No              | Low              |

- Step 2:** Insert color coded wires into positions 6,8,9,12,14 of the accessory connector and wire them as shown on page 2.

The diagram on page 2 depicts all 16 channels remotely selectable over 5 wires, using diodes. For applications involving fewer than 16 channels, just delete the unneeded portions of the circuit. For example, if all that's required is 2 channels, this is accomplished easily, without any diodes, by connecting Channel Select input #2 (pin 8) to ground through an SPST switch. Grounding pin 8 places the radio on Channel 2. Ungrounding pin 8 returns the radio to Channel 1 (or whatever channel it was on before pin 8 was grounded). With none of the Channel Select inputs grounded, channel selection may be accomplished normally using the radio's front panel up-down buttons. When a channel selection has been made remotely, by grounding one or more of the Channel Select inputs, the radio's front panel up-down buttons are inoperative.

# 16-PIN ACCESSORY CONNECTOR

S1 = SPST  
 S2 = SP16T  
 ALL DIODES = 1N914  
 OR EQUIV.



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OPENING S1 ENABLES LOCAL CHANNEL SELECTION FROM RADIO FRONT PANEL. CLOSING S1 DISABLES FRONT PANEL UP-DOWN BUTTONS AND ENABLES REMOTE CHANNEL SELECTION VIA 16-POSITION SWITCH (S2).