**EFJ 9800 INTERFACE**
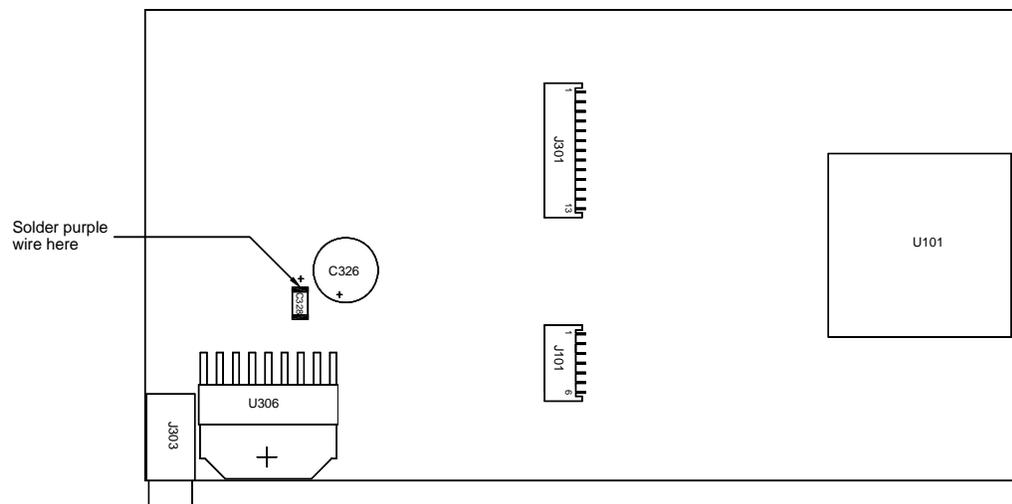
This document contains instructions for interfacing the 20-28 to the EFJ 9800 radio. The following items are included in the EFJ 9800 interface kit:

1.  EFJ 9800 to 20-28 interface kit.
2.  Instruction sheet.

The following steps outline the procedure for interfacing the EFJ 9800 radio to the 20-28:

1.  The EFJ 9800 must have firmware version 210 or later. The current version of firmware can be obtained by contacting E.F. Johnson.

2.  Connect the Data Modem Cable (EFJ Part No. 597-9800-005) or the Data Modem Cable w/Aux. Cable (EFJ Part No. 597-9800-001) as described in the 9800 Radio Service Manual.

3.  Connect the purple user-definable wire in the data modem cable to the positive terminal of capacitor C328.  (C328 is located on the Audio/Logic board on the bottom of the radio.)



4.  Connect the DB25 connector to the data modem cable, using the pinout shown on  the block diagram:

**EFJ 9800 Interface (cont.)**

| EFJ 9800 RADIO | | | | 20-28 DB25 |
|---|---|---|---|---|
| (+) on C328 | PURPLE | 1 | | RX Audio |
| J301 pin 4 (TXD) | BLUE | 2 | | Ser. in |
| J301 pin 5 (RXD) | ORANGE | 3 | | Ser. out |
| J301 pin 13 (GND) | BLACK | 7 | | GROUND |
| J301 pin 1 (SW BAT OUT) | WHITE | 20 | | +13.8 V |
| J303 pin 3 (TX FILT IN) | YELLOW | 21 | | TX Audio |

5. Configure the following 20-28 base board jumpers as indicated:

- JP3: Not shorted
- JP6: Not shorted

6. Configure the remaining jumpers based upon system requirements. The audio level adjustments will also need to be checked.

## EFJ 9800 Interface Kit
## 105-2028EFJ98KIT

| Item | Description | Part No. | Qty. |
|---|---|---|---|
| 1 | DB25 CONNECTOR MALE | 231-0005 | 1 |
| 2 | SCREW/CLIP KIT | 231-0014 | 1 |
| 3 | 4-40 X 1/2 SCREW | 199-4035 | 2 |
| 4 | DB25 COVER ASSEMBLY | 231-0015 | 1 |