

BF GOODRICH SKYWATCH (SKY497) TRAFFIC ADVISORY SYSTEM - REMOVAL/INSTALLATION**1. General**

- A. This section describes the removal and installation procedures for the BF Goodrich SKYWATCH (SKY497) Traffic Advisory System components.
- B. The system consists of a transmitter/receiver/computer, a maintenance switch, display, and antenna.
 - (1) The TRC497 Transmitter/Receiver/Computer (TRC), and maintenance switch is located on the aft avionics shelf in the tailcone.
 - (2) The NY-164 antenna is mounted on the forward upper fuselage at FS 161.25 and LBL 5.00.
 - (3) The WX-1000/SKY497 display is located on the instrument panel.

2. TRC497 Transmitter/Receiver/Computer Removal/Installation

- A. Remove TRC497 (Refer to Figure 401)
 - (1) Disengage circuit breaker SKY WATCH on left circuit breaker panel.
 - (2) Locate the TRC497 on the aft avionics shelf.
NOTE: All connections are on the front of the TRC497.
 - (3) Disconnect interconnect cable from TRC497.
 - (4) Disconnect power cable from TRC497.
 - (5) Disconnect all coax antenna cables from TRC497.
 - (6) Loosen mounting tray hold- down knobs and remove TRC497 from mounting tray.
 - (7) Remove TRC497 from airplane.
- B. Install TRC497 (Refer to Figure 401)
 - (1) Position TRC497 into mounting tray on aft avionics shelf and push into place. Securely
 - (2) Tighten mounting tray hold-down knobs.
NOTE: All connections are on the front of the TRC497.
 - (3) Connect all coax antenna cables to TRC497.
 - (4) Connect power cable to TRC497.
 - (5) Connect interconnect cable to TRC497.
 - (6) Engage circuit breaker SKY WATCH on left circuit breaker panel.

3. Stormscope/Skywatch Maintenance Switch Removal/Installation

- A. Remove Maintenance Switch (Refer to Figure 401)
 - (1) Disengage circuit breakers STM SCP and SKY WATCH on the lower left circuit breaker panel.
 - (2) Locate maintenance switch on aft avionics shelf.
 - (3) Remove hex nut holding switch in place.
 - (4) Remove switch from angle bracket and remove screws attaching wires to switch terminals. Note color and position of each wire.
 - (5) Remove switch from airplane.
- B. Install Maintenance Switch (Refer to Figure 401)
 - (1) Attach wires to switch terminals in same order they were removed.
 - (2) Position switch in angle bracket.
 - (3) Install hex nut and tighten.
 - (4) Engage circuit breakers STM SCP and SKY WATCH on the lower left circuit breaker panel.

4. WX-1000/SKY497 Display Removal/Installation

- A. Remove WX-1000/SKY497 Display (Refer to Figure 401)
 - (1) Disengage circuit breakers STM SCP and SKY WATCH on lower left circuit breaker panel.
 - (2) On instrument panel, remove screws from WX-1000/SKY497 display.
 - (3) Move display outward from instrument panel and disconnect electrical connector.

- (4) Remove display from airplane.

B. Install WX-1000/SKY497 Display(Refer to Figure 401)

- (1) Position display at instrument panel and connect electrical connector.
- (2) Position display into instrument panel and install screws.
- (3) Engage circuit breakers STM SCP and SKY WATCH on the lower left circuit breaker panel.

5. Skywatch NY-164 Antenna Removal/Installation

A. Remove Skywatch Antenna (Refer to Figure 401)

- (1) Disengage circuit breaker STM SCP and SKY WATCH on left circuit breaker panel.
- (2) Remove hard shell headliner panel inside the cabin just below the Skywatch antenna located at FS 161.25 and LBL 5.00 by removing fasteners.
- (3) Allow panel to drop enough to disconnect coax connectors.
- (4) Identify and disconnect all coax connectors.
- (5) From outside, remove screws securing antenna to airplane.
- (6) Carefully pry antenna from airplane skin. Clean old sealant from antenna and airplane skin.
- (7) Remove antenna from airplane.

B. Install Skywatch Antenna (Refer to Figure 401)

- (1) Clean antenna and airplane mounting surface using an approved solvent. Refer to Chapter 20, General Solvents/Cleaners - Maintenance Practices.
- (2) Position antenna and secure with screws.
- (3) Fillet seal around antenna base with Type I, Class B sealant. Refer to Chapter 20, Fuel, Weather, Pressure and High-Temperature Sealing - Maintenance Practices.
- (4) From inside cabin, connect all coax connectors.
- (5) Install hard shell headliner panel using fasteners.
- (6) Engage circuit breaker STM SCP and SKY WATCH on left circuit breaker panel.

Figure 401 : Sheet 1 : Skywatch (SKY497) Installation

