

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

