

REMOTE EXPANDER

PN 20310017

INSTALLATION AND OPERATION INSTRUCTIONS

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NOTE: For the REMOTE EXPANDER to operate correctly, the ComNav autopilots **must** have the latest software. The latest software revision ending June 26, 2006 for each autopilots is as follows:

- Model 1001: 2.03A
- Model 1101: Head 3.00A, SPU 4.00A
- Model 1201: Head 1.00A, SPU 1.00A
- Model 2001: 2.08
- Model 5001: Head 3.00, SPU 2.00

The REMOTE EXPANDER increases the number of remotes (up to 4) that can be connected to a remote receptacle on a ComNav 1001, 1101, 1201, 2001 and 5001 Autopilot. For 2001 autopilot, it is important to note that all remotes connected to the REMOTE EXPANDER must either be **all tiller steering type remotes** (model 201, 211, 221, 222 or TS-202), or must be **all power (push button) steering type remotes** (model 101). The selection is done by setting the Dip Switch 5 & 6 on the Control PCB of the 2001 autopilot. For 1001, 1101, 1201 and 5001 autopilot, all model remotes can be connected to the REMOTE EXPANDER without any internal Dip Switch or adjustment.

OPERATION

With the REMOTE EXPANDER, control can be taken at any of the remotes connected to it. To take control at a remote, press the red and green pushbuttons down simultaneously **and** hold them for approximately one (1) second. **For 2001 Autopilot**, the display will show the **COMMAND POINT** at the REM.1 (or REM.2). The selected remote is now active and may be operated according to its instructions.

INSTALLATION

The REMOTE EXPANDER should be mounted under the dash in a **DRY** location. The ten (10) foot cable provided with the REMOTE EXPANDER must be able to reach the rear of the autopilot.

1. Remove the four (4) screws that attach the bottom cover to the case. Mount the bottom cover using appropriate screws (not provided).
2. Slide the case down the bottom cover and reinsert the four (4) cover screws.
3. Plug up four (4) remote controls into the receptacles on the REMOTE EXPANDER.

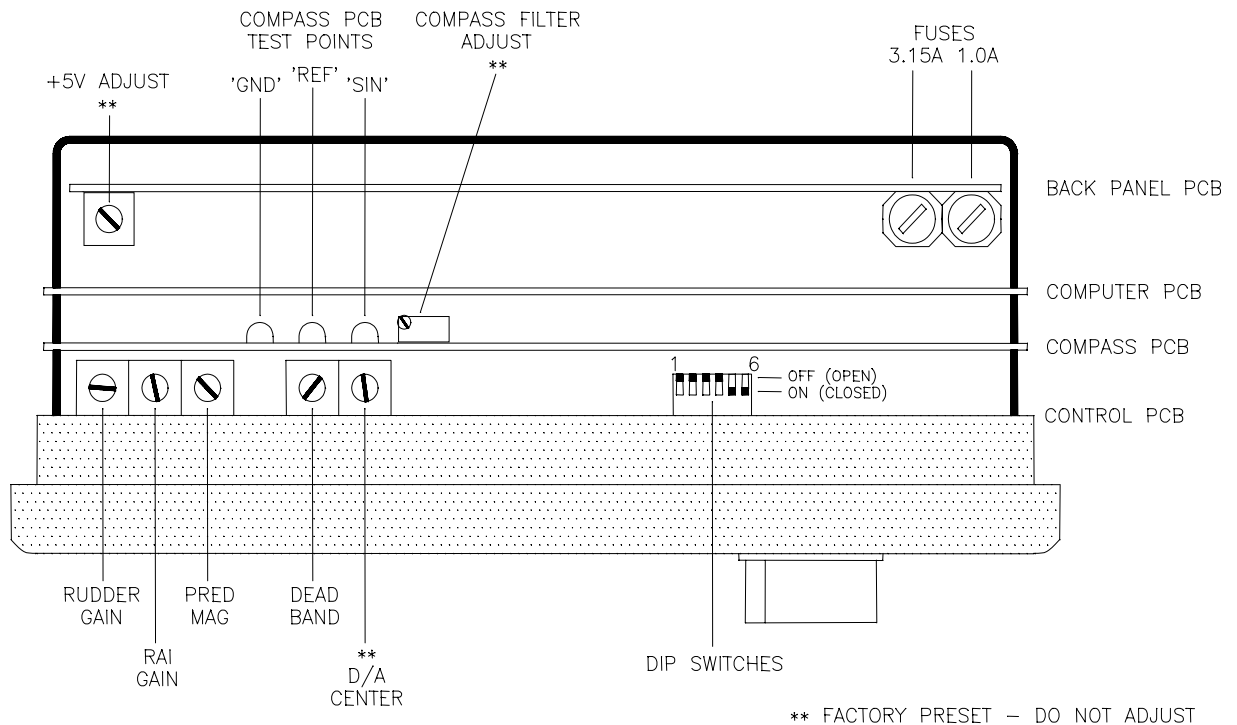
Model 2001:

If the REMOTE EXPANDER is plugged into the autopilot REMOTE 1 receptacle, DIP SWITCH 5 must be set:

- If all remotes are the **tiller steering type**, set DIP SWITCH 5 to the 'ON' (or 'CLOSED') position.
- If all remotes are the **power steering type**, set DIP SWITCH 5 to the 'OFF' (or 'OPEN') position.

If the REMOTE EXPANDER is plugged into the autopilot REMOTE 2 receptacle, DIP SWITCH 6 must be set:

- If all remotes are the **tiller steering type**, set DIP SWITCH 6 to the 'ON' (or 'CLOSED') position.
- If all remotes are the **power steering type**, set DIP SWITCH 6 to the 'OFF' (or 'OPEN') position.



TOP VIEW OF 2001 AUTOPILOT

TESTING

1. Turn the autopilot on.
2. Move the control head MASTER SELECT SWITCH to **STANDBY**.
3. Observe which LED on the cover of the REMOTE EXPANDER is on.
4. Observe the display on the remote control plugged into the receptacle adjacent to the LED. It should show the same display as the control head.
5. Observe the other remote controls. Their displays should show all 8's (8:8:8:8).
6. Choose a remote control. Press the red and green pushbuttons down simultaneously and hold them for approximately one (1) second. The display should show the COMMAND POINT at the REM.1 (or REM.2) position. Note: If the remote's display was previously showing a row of 8's, the display should now show the same display as the control head. Check that this remote control functions normally.
7. Repeat Step 6 on all other remotes.