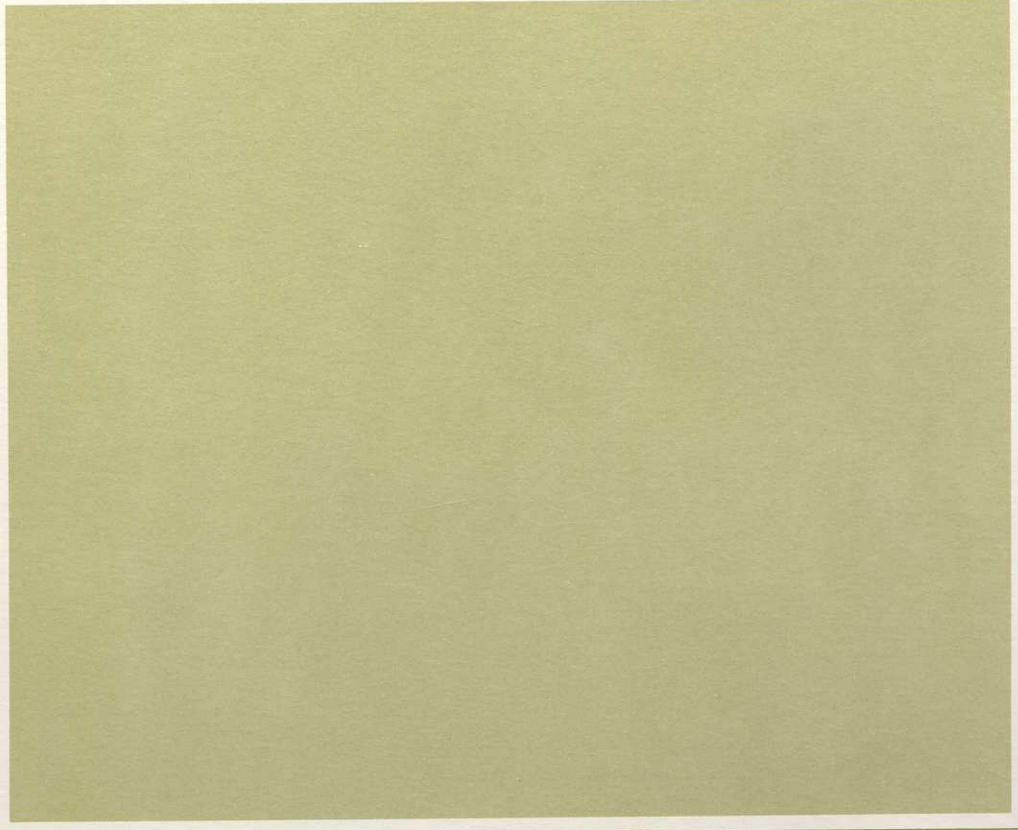




Rockwell  
International

operating instructions

MICRO LINE



Collins General Aviation Division  
Avionics and Missiles Group/Rockwell International  
Cedar Rapids, Iowa 52406

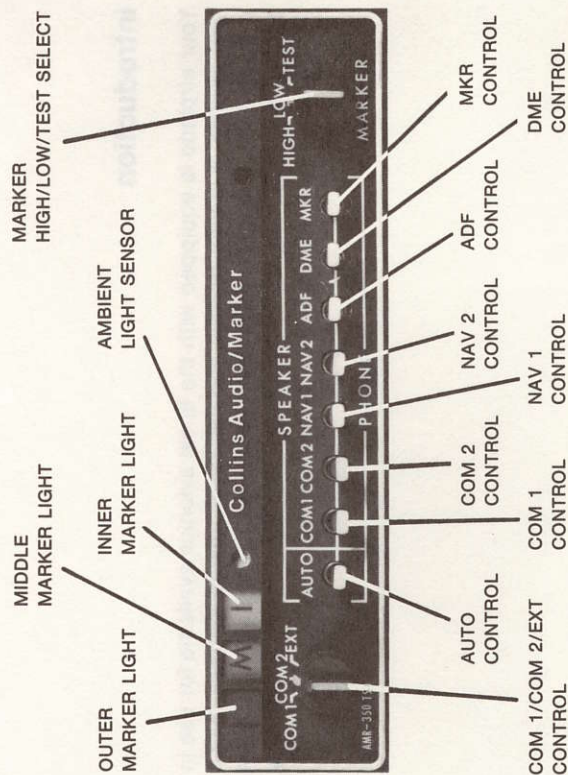
## AMR-350 audio/marker panel

The AMR-350 provides audio switching for all of your radios. It also contains a marker beacon receiver and 3-light indicator.

Position the appropriate toggle switches up for speaker use or down for headphones. The center (off) position prevents received audio from reaching either the speaker or phones.

With the AUTO toggle switch in either the SPEAKER or PHONE position and the COM 1 and COM 2 toggle switches in their center positions, the microphone and speaker (or phones) are automatically connected to the transceiver selected with the rotary switch on the left side of the AMR-350. Position this switch to COM 1 or COM 2 to select the appropriate transceiver.

With the MARKER switch in the HIGH position, receiver sensitivity is increased. Use of the HIGH position will give you an advance indication of approach to a marker. Switching to the LOW position after acquisition will provide a more accurate indication of station passage. It is good practice to check the marker lights prior to each flight. To do this, turn the MARKER switch to TEST. All three lights should come on at full brightness.



AMR-350 Audio/Marker Panel,  
Controls and Indicators  
Figure 1

## VHF-251 communications transceiver

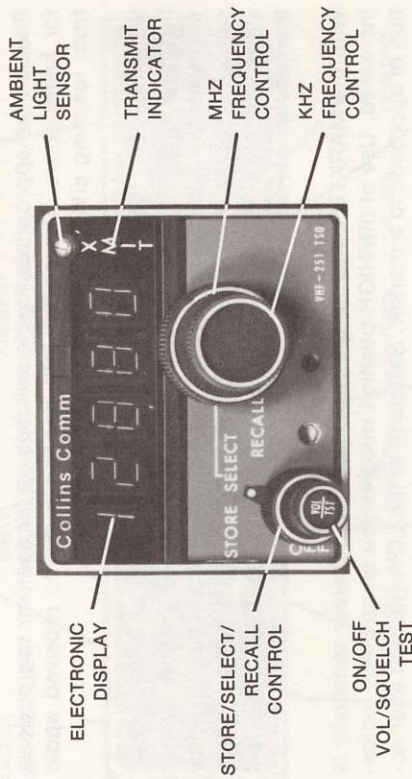
Frequency selection is made using the concentric knobs located to the right of center; the larger knob is used to select MHz and the small to select kHz. There are no end stops.

Two frequencies may be entered into each transceiver. With the selector switch in the SELECT position, tune to the frequency you wish to place in memory. Momentarily turn the selector switch to the STORE position. When released, the switch will automatically return to the SELECT position and you dial in another frequency. To operate on the first frequency chosen, turn the selector switch to the RECALL position. To operate on the second frequency chosen, turn the selector switch back to the SELECT position. The active frequency for transmit and receive is the one displayed. The electronic frequency display brightness is automatically adjusted for the level of light on the instrument panel; the digits dim in darkness and become brighter in sunlight.

When power is removed from the transceiver, the frequency stored in memory is erased. When power is reapplied, the frequency shown in the electronic display will be automatically stored in the memory. *Do not attempt to select a frequency when the selector switch is in the RECALL position.*

When you key the microphone to talk, XMIT is indicated to the right of the frequency display. The brightness of the letters varies with modulation level. The VHF-251 uses 25-kHz channel spacing to permit operation on 720 frequencies. The frequency display consists of five digits; the sixth digit, which must be a 5 or a 0, is redundant information so is not displayed.

An automatic squelch circuit eliminates the background noise that exists during a no-signal condition. To make a preliminary volume control setting in the absence of a signal, pull out on the VOL/TST knob. This overrides the automatic squelch and allows the noise to be heard. Turn the knob to obtain the desired volume and then push it back in.



VHF-251 Communications Transceiver,  
Controls and Indicators  
Figure 2

## TDR-950 transponder

There is a 20-second time delay between application of power to the transponder (function selector in any position except OFF) and operation. Normally, turn the function selector to the SBY position prior to taxiing. By the time you are airborne and want to use the transponder, the output tube will be warmed up and normal operation will begin as soon as you turn to the ALT position.

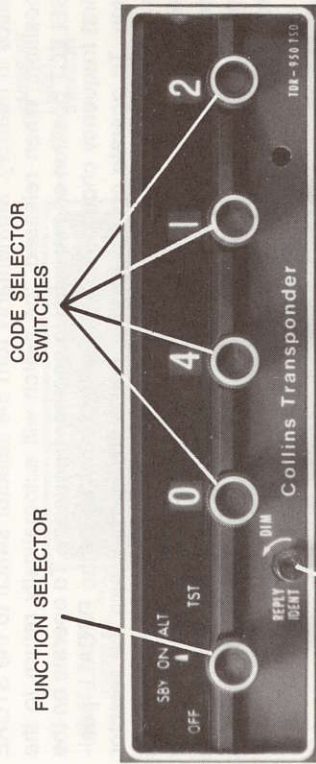
The code selector switches have no end stops. Select the desired code (1200 for VFR) and then turn the function selector to TST. The REPLY lamp should remain on as long as the switch is held in this position if the transponder is operational. After testing, turn the function selector to ALT. The REPLY lamp will flash on and off when responding to interrogations.

If ATC requests you to "squawk ident," momentarily press the IDENT button. The REPLY lamp will remain on for about 20 seconds after the IDENT button is released.

The brightness of the REPLY lamp is controlled by turning the IDENT button.

If ATC instructs you to "squawk (number)," turn the code selector switches to the code numbers requested. If ATC asks you to "squawk standby" or to "stop squawk," turn the function selector to SBY. Never select code 0000 as this is reserved for military interceptor operations.

The function selector must be in the ALT position for altitude reporting. If requested by ATC to "stop altitude squawk," turn selector to ON position.



TDR-950 Transponder, Controls and Indicators  
Figure 3