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**SINGLE-POINT SEARCH-TO-CUE ACCESSORY  
FOR  
ATR-100 RECORDER/REPRODUCER**

**GENERAL INFORMATION**

The single-point search-to-cue accessory (part no. 4010282), for the ATR-100 Recorder/Reproducer, uses 28 ICs and two transistors. Operation is entirely digital. The search window is 8192 tach pulses wide, corresponding to 102.4 seconds at 30 in/s. As the cue point is reached, speed is reduced in four steps: to 390 in/s, 195 in/s, 97 in/s, then 48 in/s.

Search-to-cue connections have no affect on ATR-100 signal-to-noise ratio since, apart from the tach signal, only dc signals are transmitted through the control cable. All reference and switching signals are generated within the search-to-cue enclosure.

**OPERATION**

The search-to-cue accessory has three controls: a CUE STORE button to enter the cue point; a SEARCH button to initiate the search command; and a toggle switch on the back of the search-to-cue unit to alter descent speed by 1/2, to improve parking accuracy for use with large reels.

There are no set-up adjustments and the search-to-cue accessory has no effect on ATR-100 controls unless a search is underway. When the search mode is initiated, interaction with ATR-100 control unit is as follows:

1. After the cue point is reached, the ATR-100 normally goes directly into stop mode. However, when the play button is pressed at any time after search is commanded, the ATR-100 will go immediately into play mode after arriving at the cue point. This sequence self-cancels at the end of a search and any further searches will end in stop unless play is re-activated as the exit mode.
2. Pressing the stop button on the ATR-100 control unit ends the search underway and returns control to the user.
3. Pressing other control buttons on the ATR-100 control unit, such as rewind or fast forward, has only a momentary affect on the search. As soon as the button is released, the unit returns to the search mode.