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Instructions

***THP-700RTS Telephone Headset Radio Transfer Switch With Dry Switch Closure P/N 43200**

The THP-700RTS is an interface between telephone consoles or Automatic Call Directors and radios with headsets. It outputs a dry switch closure for use by the radio to transfer the headset from the radio to the telephone. It also outputs analog audio of the telephone conversation to a recorder, if desired. An RJ-11 jack outputs the recorder audio on pins 3 & 4, and the dry switch closure on pins 2 & 5 of the jack (see diagram). The audio output need not be used if recording is not desired.

The THP-700RTS detects an audio signal on the incoming telephone talk path and connects the headset and simultaneously outputs the dry switch closure. An LED indicates to the operator that the telephone talk path is connected. The dry switch closure and the headset connection are maintained as long as there is audio signal on the phone. After a settable quiet time of 5 to 30 seconds (usually 10 seconds) on the phone, the dry switch closure opens and the headset is disconnected and reverts to the radio. A "TALK" push button adjacent to the LED on the THP-700RTS will toggle the headset connection from the telephone to the radio and back again. If the LED is ON (headset connected to telephone), the push button will revert the headset to the radio (opens the dry switch closure). If the LED is OFF (headset connected to the radio), the push button will reconnect the headset to the telephone. The push button allows the immediate connection of the headset to either radio or telephone. The telephone call must be placed ON HOLD for the headset to remain connected to the radio.

There are three adjustments available to accommodate individual phone installations. The units are adjusted at the factory to normal settings that work with most telephones. Do not readjust unless it is indicated after testing on the particular telephones. Follow the adjustment instructions if it is necessary.

*Also for THP700RTX & THP-700RTZ

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Installation:

1. Connect the modular cord from the rear of the THP-700RTS into the modular headset jack on the phone base. If the headset jack is a dual pin, use the modular to dual pin adapter (P/N 43174, order if needed).
2. Plug the headset cord from the rear of the THP-700RTS into the modular headset jack on the phone base. If the headset jack is dual pin, use the modular to dual pin adapter (P/N 43174, order if needed).
3. Connect the cable from THP-700RTS, rear RJ-11 jack pins 2 & 5, to the input of the Radio Console dry switch closure input. If desired, pins 3 & 4 of the RJ-11 have audio that may be connected to a recorder.
4. Plug the AC adapter into a nearby 120VAC power outlet, and the cord into the THP-700RTS.

Operation:

The THP-700RTS is almost completely automatic. The only user operation needed is to press the TALK Switch if a long pause in the conversation causes the unit to return the headset to radio. After the preset quiet time on the talk path (usually 10 seconds) the headset connection will automatically revert to the radio.

System Test:

- A. With the talk LED OFF, have someone route a call to your extension.
- B. The headset should transfer from the radio when the call comes through and the LED should light.
- C. Carry on normal conversation. Your headset should remain connected to the telephone, unless there are long periods of silence (in which case, simply push the "TALK" switch on the unit).
- D. Now hang up. After 10 seconds of silence, the Talk light on the THP-700RTS should go OFF, and your headset should revert to the radio.
- E. Push the "TALK" switch on the THP-700RTS. Your headset should reconnect to the telephone.
- F. Place an outgoing call. When Dial tone or similar tone is on the outgoing line the headset should reconnect automatically and you can place the call.
- G. If problems occur, retest. If the problem persists, adjustments may be necessary. If so, continue with the **Adjustment Procedure**.

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The adjustment controls are factory preset for standard applications. Once the unit has been installed per the instructions above, they normally should not require adjustment. The adjustments are located as follows, front to back:

- A. **Alert Tone Volume** Control – Sets the volume of the auxiliary alert tone heard by operator, which indicates that a call is coming in. Factory preset at ½ volume (CW increases volume). Adjust for comfort level.
- B. **Time Delay** Control – Sets Headset disconnect time delay, from 5 to 30 seconds after talk path goes quiet. Factory preset at 10 seconds (CW increases time).
- C. **Audio Sensitivity** Control – Sets incoming and talk path audio detection sensitivity. Factory preset for most applications (CCW increases sensitivity).

Adjustment Procedure:

The controls are accessible through three small holes in the right side of the THP-700RTS. Insert the tip of a paper clip into the slot below the holes and slide back the cover. Adjust each control as necessary with a small screwdriver. Do not make these adjustments with a test phone. **Do not adjust these controls unless necessary.**

1. Alert Tone - The front-most control sets the alert tone volume. To adjust, simply turn the control until the desired tone volume level is reached, clockwise louder, counter-clockwise softer.
2. Time Delay - The second control from the front sets the quiet time delay prior to reconnecting to radio. To set this, disconnect the modular cord from the phone base and push the Talk switch. The Talk light will remain ON for the set time period, and then shut OFF. Clockwise increases delay time, from a minimum of 5 to a maximum of 30 seconds. Remember to re-connect modular cord or dual prong plug to the phone when finished.
3. Audio Sensitivity to Connect - The rear-most control sets the audio sensitivity. Do not adjust unless absolutely necessary. Adjustment is required only if A) unit reverts to radio in the middle of conversations, or B) unit never goes back to radio, even when the line is silent for long periods. If adjustment is needed, set control by the following procedure:

- A. Place a call to someone who can assist you, using your headset. (Push Talk button if necessary.)

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B. Note position of the time delay control. Turn it fully counter-clockwise, to shorten the delay time for the test.

C. Turn the audio threshold control fully counter-clockwise. This increases sensitivity to maximum. Push the Talk switch.

D. Make sure the headset is in a quiet environment. Slowly turn the control clockwise until the Talk light turns OFF. This is the setting where line noise and background noise will not reconnect the headset.

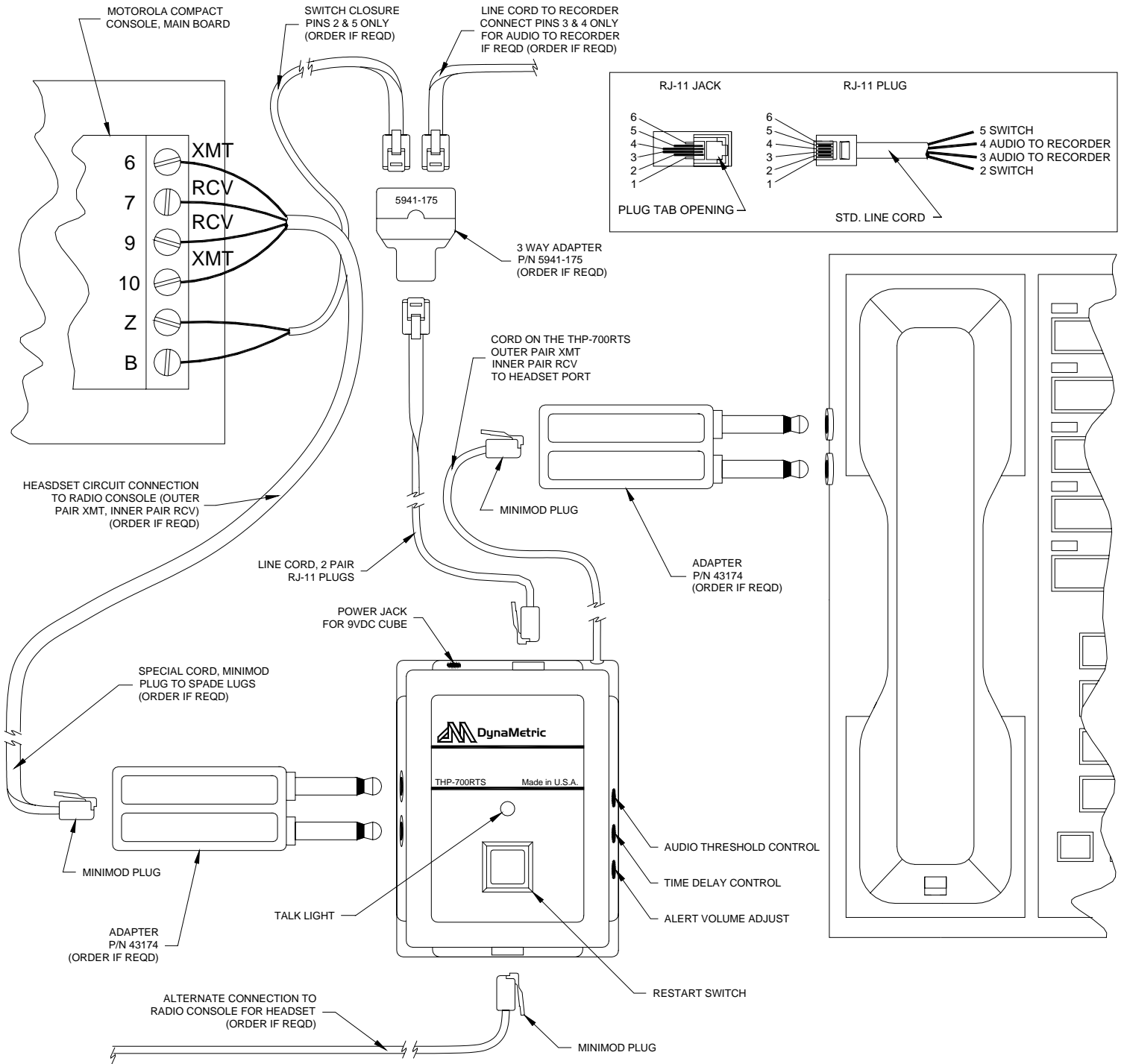
E. Press the Talk switch and carry on a normal quiet conversation. Verify that the Talk light stays ON. Remember the time delay is set short, so pauses in the conversation may turn it OFF inadvertently and invalidate the test. Be sure to talk without pauses for this test.

F. If the Talk light goes OFF during normal conversation, turn the control slightly counter-clockwise, increasing sensitivity. If the Talk light never turns OFF, even with silence on the line, turn the control slightly clockwise, until a proper balance is reached.

G. Return the time delay control to its original position. The adjustments are complete.

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! DO NOT CONNECT THE HEADSET AND HANDSET SIMULTANEOUSLY TO THE THP UNIT !