

## GUIDE FOR CHECKING TROUBLES

If trouble with the TC-356 arises, make the following simple tests to determine whether or not the trouble requires a professional engineer's skill. If the trouble persists after you have made these tests, consult your nearest SONY/SuperScope service station for further instructions.

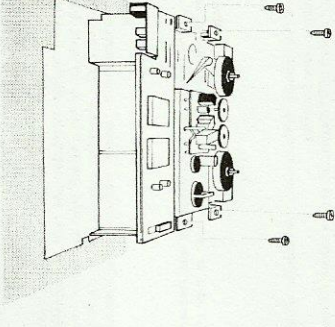
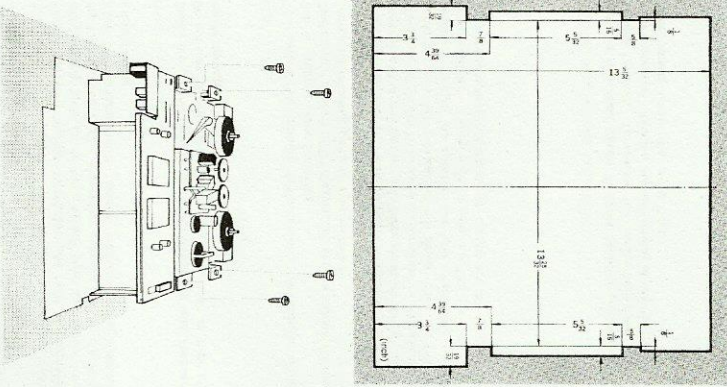
TROUBLES	PROBABLE CAUSES	WHAT TO DO ABOUT IT
Function Selector cannot be locked	• Automatic Shut-off system is activated.	• Take up the slack of the selector cannot be locked without threading tape.
No sound from recorded tape	• Monitor Switches are in OFF position. • Break in connection to speakers or in connection to amplifier. • Amplifier fault or volume control turned off.	• Set that all controls are in proper position. • Check connections. • Check commercially prepared tape to see if the fault is in recording or playback circuit.
Slippage of tape, wow or flutter	• Dirty or oily capstan and pinch roller. • Bent reel. • Different size reels take-upпы and uneven pinch roller.	• Clean capstan, pinch roller and other tape path components. • Replace the bent reel. • Use perfect roundness.
Recording can not be made	• Input connections are not proper, or connecting cord see that signal is reaching recorder. • Amplifier fault. • Record Levers not locked.	• Check input connections and cords to see that signal is reaching recorder. • See that all controls are correct.
Low hum on tapes	• Input (record player or tuner) or recorder not properly grounded. • Recorder operating in stereo (19dB).	• Check whether hum occurs on prerecorded tapes as well as those made on the recorder. • Check ground terminal of recorder. • Try reversing the AC power plug of the wall outlet.
Loss of high frequencies	• Dirty heads.	• Clean heads and tape path. (Refer to page 8)
• Tape threaded improperly. Shiny side contacts the heads		• Thread tape properly.
• Tape twisted or damaged		• Check the tape.
• Dirty erase head.		• Clean erase head. (Refer to page 8)
Unsatisfactory erasing		

11

## SPECIFICATIONS

Power requirement:	AC 117V, 60Hz
Power consumption:	30W
Tape speed:	7½ ips, 3¾ ips, 1½ ips
Recording time:	1.5 hours total at 7½ ips, stereo recording (with 1800ft tape) 7" or smaller
Reels:	Transistors 27, diodes 4
Semiconductors:	4 track stereo or monaural
Recording system:	Record head 1
Heads:	Playback head 1
Eraser head	1
Signal-to-noise ratio:	55dB (with SLH tapes)
Distortion:	1.2%
Frequency response:	20 - 25,000Hz at 7½ ips 30 - 17,000Hz at 3¾ ips 30 - 9,000Hz at 1½ ips
Wow and flutter:	0.09% at 7½ ips 0.12% at 3¾ ips 0.17% at 1½ ips
Inputs:	Microphone inputs Sensitivity -72 dB (0.19mV) Accept low impedance microphones
Auxiliary inputs	
Sensitivity	-22 dB (0.08V)
Impedance	100kΩ
Line outputs	
Output level	0 dB (0.775V)
Load impedance	100kΩ
Headphone jack	
Accepts an 8 ohm stereo headphone	
Dimension:	16½ (W) × 8¾ (H) × 14¾ (D)"
Weight:	22 lb, 8 oz
Supplied accessories:	Empty Reel..... 1 SLH tape..... 1 Connecting cord RK-74..... 2 Reel caps..... 2 Head cleaning DP-3..... 1 Dust protector F-98, ECM-21..... 1 Microphone F-98, ECM-21..... 1 Stereo headphone DR-6A..... 1 Telephone pick-up TR-55..... 1 Stereo microphone mixer MX-6S, MX-12..... 1
Optional accessories:	
• Design and specifications subject to change without notice.	

12



- ### Mounting
- This recorder can be installed in either vertical or horizontal position. Consult your SONY/SuperScope service station to mount the recorder in the following procedure.
1. Make a rectangular cutout at the desired location on the panel or the cabinet in accordance with the measurement.
  2. Unscrew the four large screws on both sides of the case, and remove the case from the deck.
    - Before removing the case from the deck, disconnect the AC plug.
  3. Take out the top panel as described in "How to remove the top panel" on page 9.
  4. Mount the deck in new location and fasten with four wood screws as illustrated.
  5. Place the top panel on top of the deck and replace the parts and controls on it.