# TEAC

# A.3300 A.3340

STEREO TAPE DECK
SERVICE MANUAL



# 1. GENERAL DESCRIPTION

The TEAC A-3340 is a semi-professional tape deck capable of Simul-sync recording, Quadriphonic, Stereophonic and monophonic recording and playback. It offers operating speeds of 7-1/2 and 15 ips and will accept reels of 10-1/2 inches in diameter. The Simul-sync feature permits the recording of discrete but synchronized program material on all four tape tracks.

The TEAC A-3300 is a semi-professional tape deck capable of Stereophonic and Monophonic recording and playback. It is available in three configurations and offers operating speeds of either 3-3/4 and 7-1/2 ips, or 7-1/2 and 15 ips.

The transport mechanisms of the A-3300 and A-3340 are identical with the exception of operating speeds and head configurations.

This service manual provides adjustment and alignment procedures, schematic diagram and parts replacement information and the proper procedures for obtaining necessary repair parts.

If adjustments or repair procedures are not clear or seem difficult to accomplish or should you desire more detailed technical information, please contact your nearest TEAC dealer, TEAC Corporation or affiliated corporations, address's of which are printed in this manual.

# INDEX

- 1. GENERAL DESCRIPTION
- 2. SERVICE DATA
- 3. EQUIPMENT REQUIRED
- 4. PARTIAL DISASSEMBLY
- 5. HEAD ALIGNMENT -MECHANICAL-
- 6. MEASUREMENT AND ADJUSTMENT -MECHANICAL-
- 7. A-3300/MEASUREMENT AND ADJUSTMENT -ELECTRICAL-
- 8. A-3340/MEASUREMENT AND ADJUSTMENT -ELECTRICAL-
- 9. PREVENTIVE MAINTENANCE
- 10. TROUBLE SHOOTING
- 11. PACKING FOR SHIPMENT

EXPLODED VIEW AND PARTS LIST
PRINTED CIRCUIT BOARD PARTS LIST
SCHEMATIC DIAGRAMS
MANUAL CHANGES

# 2. SERVICE DATA

MECHANICAL A-3300

Heads:

Three, 4 track 2 channel or 2 track 2 channel

stereophonic. Erase, Record and playback.

Erase head,

 $1.8k\Omega/100kHz$ , erase current approx.30mA

Record head,

 $1k\Omega/1kHz$ , bias current approx. 2mA

Playback head,  $3k\Omega/1kHz$  -53dB

Tape Width:

Standard 1/4 inch tape

Tape Speed:

15ips(A-3300-11), 7-1/2ips and 3-3/4ips

Motors:

Two 6-pole eddy current motors for reel

drive.

4/8 pole hysteresis synchronous capstan motor

Wow and Flutter:

Playback Overall

0.15% for 15ips 0.18% for 7-1/2ips

0.20% for 3-3/4ips

Fast Winding Time:

Approx.120 seconds for 10" ree1 (2,400 ft)

Power Requirements:

100/117/200/220/240V AC 50/60Hz

Weight:

44 1bs (20kg) net.

A-3340

Type:

Four track 4 channel stereophonic

Four track 2 channel stereophonic

Four track 1 channel monophonic

Heads:

Three: Erase(Ferrite), Record,

Playback(Permalloy)

Reel Size:

10-1/2" maximum NAB reel

Tape Width:

Standard 1/4 inch tape

Tape Speed:

15ips and 7-1/2ips (0.5%)

Wow and Flutter:

0.06% at 15ips

-----

0.08% at 7-1/2ips

WEIGHT:

49.5 lbs (22.5kg)

The following chart lists the differences by number A-3300, -10,-11,-12 and A-3340.

MODEL	TAPE SPEED	HEAD CONFIGURATION		URATION	
A-3300-10	7-1/2ips, 3-3/4ips	4T	4T	4T	2 Channel
A-3340 A-3300-11	15ips, 7-1/2ips	4T 2T	4T 2T	4T 2T	4 Channel Half Track
A-3300-12	7-1/2ips, 3-3/4ips	2T	2T	2T	Half Track

# ELECTRICAL A-3300

Transistors:

2SC1000(BL) × 2

 $2SC693(GU) \times 2$  $2SC644(T) \times 4$ 

 $2SC971 \times 2$ 

2SA666I(S) × 2 2SC828(S) × 8

 $2SC536(F) \times 2$ 

Diodes:

FR2-06 × 4 FR2-10 × 1

Frequency Response:

15ips 30Hz~22kHz±3 7-1/2ips 40Hz~18kHz±3

3-3/4ips 50Hz~10kHz±3

Signal to Noise Ratio:

52dB or more

7-1/2ips 48dB or more 3-3/4ips 45dB or more

(unweighted)

15ips

Input:

MIC: 0.3mV/10kΩ LINE: 0.1V/100kΩ

Output:

LINE: approx. 0.3V/10kΩ or more

HEADPHONE:  $0.3 \text{mW}/8\Omega$ 

Bias Frequency:

100±5kHz push-pull oscillator

Crosstalk Rejection:

35dB adjacent track at 100Hz

Channel Separation:

60dB channel to channel at 1kHz

Erase Efficiency:

60dB or more at 7-1/2ips or 15ips speed

# ELECTRICAL A-3340 -

Frequency Response:

15ips

30Hz~22kHz ±3dB

7-1/2ips

40Hz∿18kHz ±3dB

Frequency Response at

SIMUL SYNC:

15 & 7-1/2ips 30Hz∿7.5kHz ±10dB

Signal to Noise Ratio:

15 & 7-1/2ips 50dB or higher

(unweighted)

Crosstalk Rejection:

46dB adjacent track at 1kHz

Channel Separation:

43dB channel to channel at 1kHz

# NOTE

As a result of continuing changes and improvements during the production run, minor differences may be found between early and later machines. Refer to manual change sheets for information concerning modifications.

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# 3. EQUIPMENT REQUIRED

FOR MECHANICAL MEASUREMENT

SPRING SCALE:

 $0^3$ kg ( $0^8$  1bs)

 $0 \sim 300 g (0 \sim 10 \text{ oz})$ 

TEST TAPE:

TEAC YTT-2004 (15 ips)

TEAC YTT-2003 (7-1/2ips)
TEAC YTT-2002 (3-3/4ips)

FLUTTER METER:

SENTINEL INC FL-3D-1

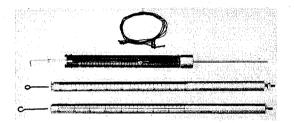
DIGITAL FREQ. COUNTER:

Capable of 0 to 5kHz indication

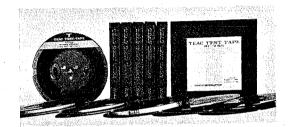
TOOLS:

General, 2mm nut driver, Hex head

Allen wrench







Spring Scale

TEAC Hex Allen Wrench

TEAC Test Tapes

FOR ELECTRICAL MEASUREMENT -

TEST TAPE:

TEAC YTT-1004 for 15ips

TEAC YTT-1003 for 7-1/2ips

TEAC YTT-1002 for 3-3/4ips

SCOTCH 203 and 150 for recording test

EMPTY REEL:

TEAC RE-702(2" hub)

TEAC RE-701(4" hub)

TEST SET:

TEAC M-826A test set

BAND PASS FILTER:

TEAC M-206A(1kHz)

VTVM:

hp model 4302B or equivalent

RESISTOR:

Non inductive type 8 ohm/1W

OSCILLOSCOPE:

General purpose



TEAC Test Set

- NOTE -

Use of the TEAC M-826A test set is recommended. This set incorporates an AC VTVM, Audio Oscillator, Channel Selecting switch, Variable Attenuator, Monitor Speaker and Cables.

TEAC M-826A measures the RMS value of the Voltage(0 dB = 0.775 V). Characteristics of this test set are similar to the standard VU-meter.

# CAUTION

Do not attempt complete disassembly of any of the subassemblies.

The list of individually replaceable parts in the exploded view should be used as a guide to disassembly limits.

# REMOVING THE REAR PANEL AND WOODEN SIDES-

- 1. Loosen the four screws on each wooden side.
- 2. Remove the six screws holding the rear panel.
- 3. Lift off rear panel.
- Remove the eight screws in the two wooden sides.
- 5. Remove the wooden sides.

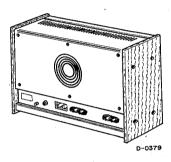


Fig. 4-1 Removing Wooden Sides

# REMOVING THE BOTTOM PLATE-

- 1. Place the unit upside down.
- 2. Remove the three screws in the bottom plate.
- 3. Lift off bottom plate.

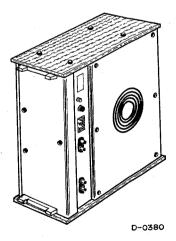


Fig. 4-2 Removing Rear Panel and Bottom Plate

\*All amplifier checks and adjustments can be made from the bottom with the plate removed.

# CAUTION

These adjustments should be performed by experienced technicians, and then only when going through the complete test and check procedures on the unit which is being tested.

#### CAUTION

Power to the unit must be switched off when removing the heads, this will prevent transient pulses from passing through the heads causing strong magnetization or damage to the delicate windings. After head replacement, thorough demagnetization is recommended.

#### NOTE

The heads of the A-3300/3340 can be changed either as a complete assembly or individually as required.

#### HEAD ASSEMBLY REPLACEMENT -

To change the head assembly as a unit, remove the two mounting screws, (one on each end).

Note the positions of the wires on the circuit board before unsoldering. Solder the wires of the new assembly in exactly the same positions.

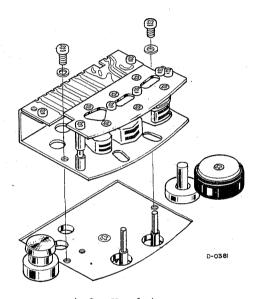


Fig. 4-3 Head Assy

# INDIVIDUAL HEAD REPLACEMENT

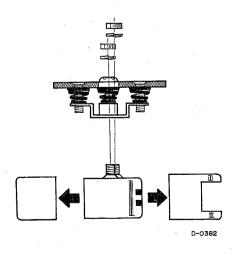


Fig. 4-4 Individual Heads

To replace a single head, a special 2mm nut driver is required. Remove the two nuts on the defective head through the access hole provided, this releases the head from the mounting plate. Note the position of the wires on the circuit board. Connect the new head in the same manner.

Replace the nuts securing the new head to the plate, perform head alignment before operation.

Head installation mounting provides for left or right positioning. After installing heads, determine proper position while recording or playing back a tape.

# REMOVAL OF CAPSTAN MOTOR -

- 1. Remove the three screws holding the capstan motor (top).
- 2. Unsolder the six wire connecting the capstan motor.
- 3. Remove the four screws holding the capstan motor (bottom).
- 4. Loosen the two set screws (hex head) in pulley and lift off pulley.

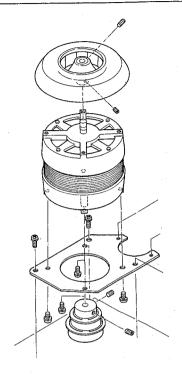


Fig. 4-6 Capstan Motor Removal

# REMOVAL OF CAPSTAN ASSY

# NOTE

A clearance of 0.01" must maintained between the flywheel and capstan assembly.

- 1. Unscrew capstan cover (front panel).
- 2. Remove two screws from rear bracket, allow bracket to drop toward floor of case.
- 3. Remove capstan belt.
- 4. Loosen two screws in capstan assy flywheel. Remove flywheel.
- 5. Remove three screws in capstan assy.
- Gently move capstan assy up and down until it slides out of panel.

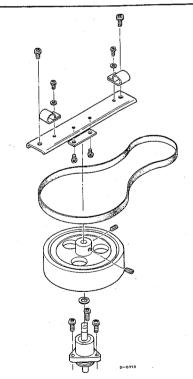
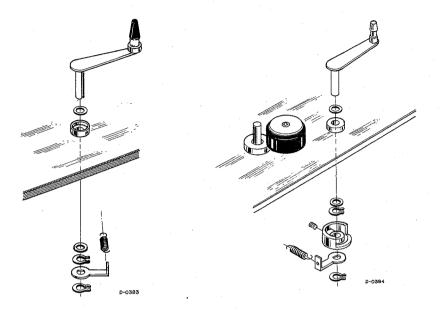


Fig. 4-7 Capstan Assy Removal

See illustration for complete disassembly instructions.



# REMOVAL OF: REEL MOTOR ASSY-

- 1. Loosen 2 hex screws in brake drum, lift off brake drum.
- 2. Remove 3 screws securing the brake assembly to the motor.
- 3. Remove reel turntable, remove 4 screws securing motor to front panel.

- NOTE -

Reel motor assemblies are mirror images of each other, these assemblies are not interchangeable.

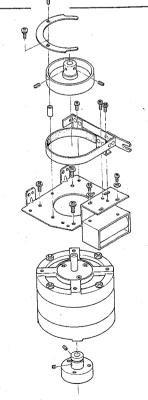


Fig. 4-8 Reel Motor Removal

# 5. HEAD ALIGNMENT-MECHANICAL-

# NOTE

Head alignment is adjusted at the factory to very critical tolerances. Normally HEAD ASSEMBLY replacement will require only minor alignment or adjustments.

Complete readjustment should only be necessary after an individual head is replaced. The adjustments are made as follows:

# ERASE HEAD SECTION-

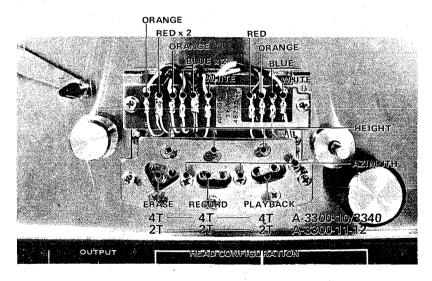
The erase head pole should be above the edge of a threaded tape by the width of heavy pencil line.

#### RECORD HEAD SECTION-

The record head pole should be above the edge of a threaded tape by the width of a thin pencil line.

# PLAYBACK HEAD -

The pole of the playback head should be even with the top of a threaded tape.



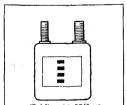


Fig. 5-1 Head Alignment Adjustable Screws

# NOTE

Azimuth adjustments are given in the section on MEASUREMENTS AND ADJUSTMENTS -ELECTRICAL-

# 6. MEASUREMENT AND ADJUSTMENT -MECHANICAL-

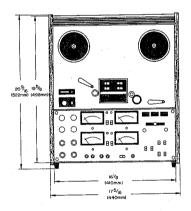
The TEAC A-3340/3300, -10-11-12 have a highly reliable three motor drive system and should require a minimum of mechanical maintenance or adjustment.

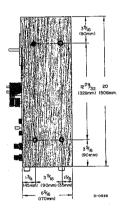
These adjustments are made at the factory. Readjustment should only be required after many hours of operation or component replacement.

The following chart lists the differences by number A-3300, -10,-11,-12 and A-3340.

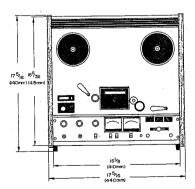
MODEL	TAPE SPEED	HEAD CONFIGURATION			URATION
A-3300-10	7-1/2ips, 3-3/4ips	4T	4T	4T	2 Channel
A-3340 A-3300-11	15ips, 7-1/2ips	4T 2T	4T 2T	4T 2T	4 Channel Half Track
A-3300-12	7-1/2ips, 3-3/4ips	2T	2T	2T	Half Track

A-3340

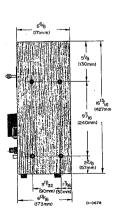




A-3300



Dimensions



#### NOTE

Pinch roller pressure is supplied by the pinch roller spring arm and it is most important that the solenoid plunger be fully bottomed before taking pressure measurement.

# Procedure For Check And Adjustment

- 1. Load tape or block the shut-off arm in the on position.
- 2. Attach a suitable spring scale to the pinch roller shaft.
- 3. Place the unit in the PLAY mode ( ▶ ), and holding the spring scale as illustrated, slowly draw it away from the pinch roller.
- 4. Do not allow the string to rub against the pinch roller.
- 5. Note the reading on the spring scale at the instant the pinch roller stops rotating.
- 6. The scale should indicate 2.1∿2.3 kg. Optimum value is 2.2 kg.
- 7. If adjustment is necessary, loosen the three screws on the capstan solenoid and position the solenoid for optimum pressure.
- 8. Adjust solenoid limit position so that the GAP between capstan shaft and pinch roller is approximately 7mm when solenoid is not actuated. Limit is adjusted by loosening the mounting screw (A), mount slot is elongated, slide limit until proper gap is obtained.

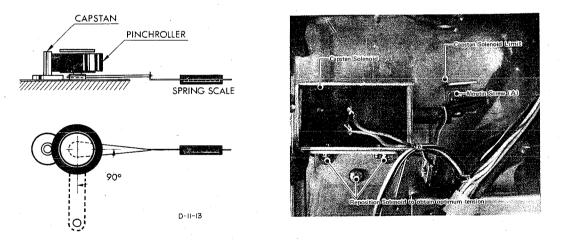


Fig. 6-1 Pressure Measurement -Pinch Roller-

# TORQUE MEASUREMENT PROCEDURE

# NOTE

Be sure the full required line voltage is applied and that the unit is set to the proper line frequency.

Supply and take up motor torques should be within the limits listed in the chart below.

# A-3300-10, 12

REEL SIZE	TAKE UP TORQUE	BACK TENSION	ADJUSTMENT
LARGE	780∿820 g-cm	300∿320 g-cm	R-2
SMALL	380∿400 g-cm	180∿210 g-cm	R-1

# A-3340/A-3300-11

REEL SIZE	TAKE UP TORQUE	BACK TENSION	ADJUSTMENT
LARGE	880∿920 g-cm	300∿320 g-cm	R-2
SMALL	380∿400 g-cm	170~200 g-cm	R-1

- R-1 SMALL reel torque (for both)
- R-2 LARGE reel torque (for both)
- R-3 LARGE reel torque (balance)
- R-4 REWIND BACK TENSION (fixed)
- R-5 BRAKE SOLENOID (fixed)

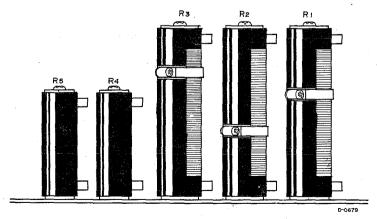


Fig. 6-2 Adjustment Tension Resistors

# TAKE UP TORQUE -

- 1. Block the shut-off arm in the on position and place REEL size switch to LARGE position.
- 2. Place an empty reel (RE-701) and spring scale on right reel table.
- 3. Depress the (  $\blacktriangleright$  ) play button. Allow the rotation of the reel to slowly draw the scale toward the hub.
- 4. The spring scale should be  $780 \sim 820$  g-cm.
- 5. If it is not adjust resistor R-2 until a scale reading within the specified limits.
- 6. After adjusting R-2, check back tension of left reel motor, procedure as follows.

# BACK TENSION -

- 7. Place the empty reel and spring scale on the left reel table. And depress the ( ▶ ) play button.
- 8. Pull the scale away from the reel against the motor torque (rotation), with a steady smooth motion.
- 9. The scale should be  $300 \sim 320$  g-cm. Adjust R-3, if checked value of back tension exceeds the specified limits.
- 10. After adjusting R-3, adjust R-2 to bring back tension and take up torque to exact specified limits.

# NOTE

Adjustments will interact, several adjustments may be required to bring both motors within specification.

11. After adjusting R-2 and R-3 repeat above procedure. When the REEL switch is in the SMALL position, the scale reading should be within the limits listed in the chart. If adjustment is required adjust the resistor R-1.

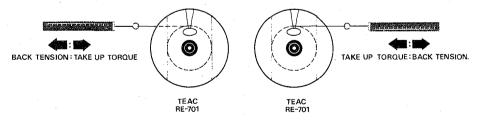


Fig. 6-3 Torque Measurement

#### NOTE

The brake torque is actuated mechanically. Pressure is set by the variable spring force. While making this measurement and adjustment, be careful not to bend the brake bands. As brake torque will change with cleaning, brake drums and brake shoes should be cleaned only when absolutely necessary. If cleaning is required, use TEAC cleaner TZ-251B only. After cleaning operate the machine for some time before performing the below procedures.

Brake adjustments are made with no power connected to the equipment. procedure for check and adjustment

- 1. Place an empty 2" hub reel on the left reel table, and fasten one end of a 30" length of string to the reel anchor.
- 2. Wind several turns of string counterclockwise around the hub and attach a suitable spring scale to the free end of the string. Slowly draw the spring scale away from the reel, making sure that the string does not rub against the reel flanges.
- 3. Take a reading only when the reel is in steady motion since the force required to overcome static friction will produce a false, excessively high initial reading.
- 4. The reading should be 1.8 kg-cm  $\pm 0.1$ (25 oz-inch).
- 5. If different, brake torque will normally be adjusted by means of the A & B adjustment screws, loosen locking screw C, adjust A & B for proper torque value, retighten screw C.

# NOTE

The difference in readings between the right and left brakes should be kept within 50 g-cm (0.7 oz-inch).

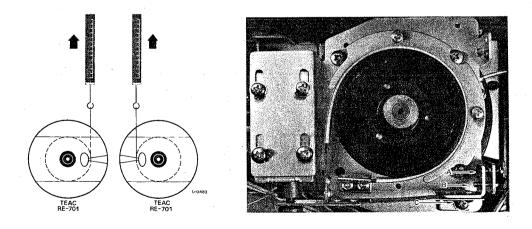


Fig. 6-4 Torque Measurement & Adjustment Location
-Brake-

### REEL HEIGHT ADJUSTMENT-

Reel height adjustment is required only if a motor has been replaced.

Adjustment is accomplished by loosening the two set screws in the reel turntable collar.

Reel turntable height should be adjusted using standard 7" reels, if 10" reels are used place a TEAC reel height adjusting sheet on each reel turntable.

With a tape threaded on the machine, position the reel height for smooth tape travel. Retighten set screws.

\* Reel turntable, if damaged should be replaced as a unit available only as a complete assembly.

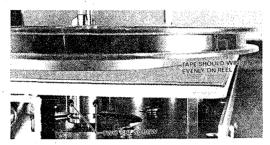


Fig. 6-5 Reel Height Adjustment

# FLUTTER-

Flutter should be measured in playback mode using a TEAC flutter free tape YTT-2004  $\cdot$  2003  $\cdot$  2002 and a Sentinel Inc model FL-3D-1 flutter meter.

Measurement of flutter should be made in accordance with NAB standards.

Values obtained with different standards or equipment cannot be compared.

Flutter should not exceed. 15ips: 0.15%

7-1/2ips: 0.20%

3-3/4ips: 0.25%

These figures apply to any tape position and direction(such as full take-up reel, full supply reelor about mid point).

# TAPE SPEED

The tape speed should be measured using TEAC flutter free tape, model YTT-2003.2002. These tapes contain a highly accurate 3 kHz tone. Connect a digital frequency counter to either line LINE OUT jack. The indicated frequency should be 3 kHz 0.7% for all speeds.

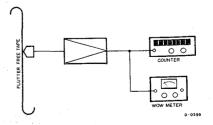


Fig. 6-6 Test Equipment Set-Up Flutter And Tape Speed

Unit must be set to the power line frequency available. Improper frequency setting will result in a 20% error between the tape speed and reel motors torque.

#### NOTE

US model is preset to 117V AC and 60 Hz. No frequency conversion is required.

If it should be necessary to convert the A-3340/A-3300 deck to operate from a power source of different voltage or frequency, it may be easily accomplished as follows:

# Voltage Conversion:

The A-3340/A-3300 may be set for 100, 117, 200, 220 or 240 volts. To change the voltage unscrew the fuse in the center of the voltage selector plug. Pull out the plug and reinsert it so the desired voltage shows in the cutout. Reinstall the fuse.

# Frequency Conversion:

- 1. Remove the power cord and all connecting cables.
- Take off tape deck rear cover by removing the six screws holding it.
- 3. The belt linking the motor pulley and flywheel must be repositioned. The motor pulley on the Model A-3340/A-3300 has two steps and difference in rotation due to a different power frequency is compensated for by changing the belt step on the pulley. Reposition the belt with your fingers, at the flywheel first and then at the pulley when switching from 60 Hz to 50 Hz or the pulley first and then the flywheel when changing from 50 Hz to 60 Hz.
- 4. After repositioning belt, rotate the flywheel several turns with your finger to make sure the belt is correctly seated on the steps.
- 5. The frequency selector inside the tape deck must be switched to the frequency of the power line.
- Reinstall the rear cover of tape deck.

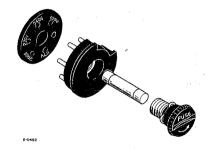


Fig. 6-7 Voltage Conversion

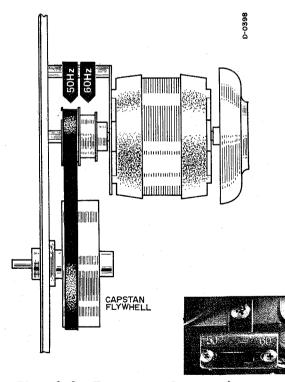


Fig. 6-8 Frequnecy Conversion

# 7. MEASUREMENT AND ADJUSTMENT -ELECTRICAL-

# GENERAL NOTICE

Before performing maintenance on this unit, thoroughly clean and demagnetize the entire tape path.

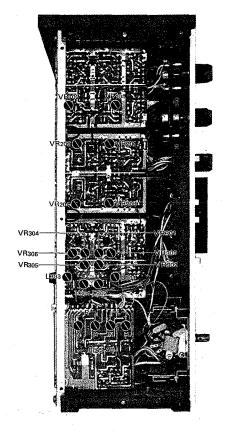
It is important that the unit be set to the proper voltage and frequency for your locality.

TEAC specified standard test tapes and test equipment must be used when performing maintenance to insure reliable results.

Procedures for checks and adjustments, unless otherwise indicated, are for the left channel at a tape speed of 7-1/2ips. The same procedures are to be applied to the right channel and again for both channels at 3-3/4ips and or 15 ips.

All controls mentioned in this book will be printed in bold letters and will be exactly as they appear on the unit.

Double designated symbol numbers refer to left channel/right channel.



-A-3300/3340-

Fig. 7-1 Adjustment Locations

Only FRONT adjustments are illustrated, REAR adjustments are identical.

	_	
L CHANNEL	R CHANNEL	LOCATION
VR101	VR102	PLAYBACK EQ.
VR201	VR203	PLAYBACK LEVEL
VR202	VR204	PLAYBACK METER LEVEL
VR303	VR306	REC METER LEVEL
VR301	VR304	SOURCE MONITOR LEVEL
L 301	L 303	REC EQ.
L 302	L 304	BIAS TRAP
VC401	VC403	BIAS NORMAL ADJ.
VC402	VC404	BIAS HIGH ADJ.

# PLAYBACK PERFORMANCE

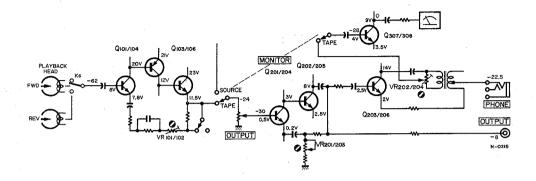


Fig. 7-2 Simplified Diagram -Playback-

#### PLAYBACK HEAD AZIMUTH ADJUSTMENT-

# Coarse Adjustment

- 1. Connect a level meter to either OUTPUT jack.
- 2. Thread a TEAC test tape YTT-1003 on the unit.
- 3. Play the 15 kHz test tone in section 2 of the test tape.
- 4. Slowly rotate the azimuth screw until maximum indication is obtain on the level meter.

# NOTE

If during playback, a slight pressure on the heads results in a rise of the reading of the level meter, head alignment adjustments should be accomplished.

# Fine Adjustment

# CAUTION

After coarse adjustment, do not make large corrections, turn Azimuth screw 1/4 turn or less.

- 5. It is absolutely essential to accomplish the coarse adjustment before using this method to avoid phase errors larger than 45°.
- 6. Connect the test equipment as shown in Fig. 7-8.
- 7. Play a 10 kHz signal and adjust the azimuth screw until the oscilloscope shows that the signals are less than 45° in phase.
- 8. Secure the screw with a drop of LOCTITE.

#### NOTE

Connect a 10 kohm load to the LINE OUT jacks when not using the TEAC M-826A (0 dB = 0.775V) level meter.

- 9. Play the 400 Hz tone in section 1 of the test tape. This tone is recorded at operating reference level (1% of the THD level).

  THD: Third Harmonic Distortion
- 10. Turn the OUTPUT controls full clockwise, and adjust VR 201/203 for -2 dB reading on level meter.
- 11. Then turn OUTPUT controls until a -8 dB reading is obtained on the level meter OUTPUT jacks.

### NOTE

This is the specified output level set. Do not disturb this setting until the remaining adjustments have been completed.

# VU METER CALIBRATION -PLAYBACK- -

12. While playing the 400 Hz tone(1% THD) in section 1 of the tape, adjust VR 202/204 for reading of 0 VU on the VU meter.

# FREQUENCY RESPONSE -

- 13. Play the test tones from 15 kHz down to 40 Hz. (Recorded at 10 dB below operating reference level.)
- 14. Compare the readings obtained on the level meter with the response limits given in Fig. 7-3.
- 15. In case of any deviation in the response curve, check head azimuth alignment, clean the heads, then adjust VR 101/102 for the best response.

# NOTE

7-1/2ips tape speed must be used for frequency response checks and adjustments. Do not attempt these adjustments at 3-3/4ips or 15ips.

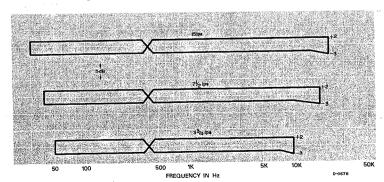


Fig. 7-3 Frequency Response Limits -Playback-

#### IMPORTANT

Output control should be at specified output level. The signal to noise ratio must meet factory standards. The values given are obtained using an unweighted level meter while the supply and take up motors are running. The values are with reference to a 3% THD level.

- 1. Thread a tape on the unit, leaving the tape outside the capstan and pinch roller.
- 2. Place the unit in the PLAY mode ( ▶ ) (the tape will not move).
- 3. The level meter connected to the LINE OUT jacks should indicate -56 dB or less.
- 4. This corresponds to a signal to noise ratio of 48 dB (difference between residual noise -56 dB and specified output level -8 dB for 1% THD).

For a 3% THD signal to noise ratio, 6 dB is added, giving 56 dB(3% THD is 6 dB above 1% THD level).

\* Speed for 7-1/2ips.

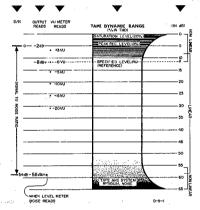


Fig. 7-4 Signal/Noise Computation

# MONITOR PERFORMANCE

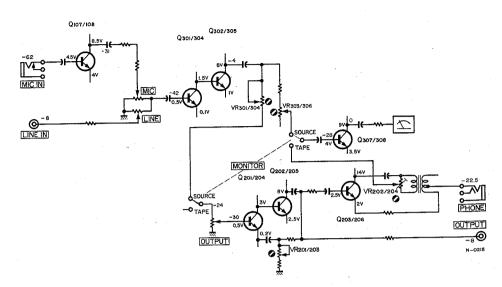


Fig. 7-5 Simplified Diagram -Monitor-

# MINIMUM INPUT LEVEL ADJUSTMENT -

# LINE Input

- 1. Connect an AF oscillator to the LINE IN jacks.
- 2. Apply a 400 Hz signal at -18 dB.
- 3. Place the MONITOR switch in the SOURCE position and turn the LINE controls fully clockwise.
- 4. Adjust VR 301/304 to obtain a specified output level of -8 dB at OUTPUT jacks.

# MIC Input

- 5. After adjusting VR 301/304, apply a 400 Hz signal at -70 dB to the MIC IN jacks.
- 6. Rotate the MIC controls fully clockwise.
- 7. The output should be -8 dB (specified output level).

# NOTE

Mic input requires no adjustment, only an operational check. After completing the check rotate mic controls fully counterclockwise to eliminate noise from mic jacks or mic preamplifiers.

# SPECIFIED INPUT LEVEL SET -

- 8. Apply a 400 Hz signal at -8 dB to the LINE IN jacks.
- 9. Adjust the LINE controls with reference marks aligned for -8 dB at the OUTPUT jacks.

# NOTE

Do not disturb the specified input level position of these controls until the remaining checks and adjustments are completed.

The difference between the channels must not exceed 2 dB as indicated on the level meter. If it is not within limits, check the amplifier gain, the LINE controls reference marks should be together.

# VU METER CALIBRATION -RECORD--

10. With the same 400 Hz signal at -8 dB applied and the MONITOR switch in SOURCE, adjust VR 303/306 for 0 VU on the VU meters.

# RECORD PERFORMANCE

## IMPORTANT

Before making any adjustments on the record amplifier, be sure that all tests in the HEAD ALIGNMENT, PLAYBACK and MONITOR PERFORMANCE sections have been accomplished and that all adjustments are correct.

Optimum recording performance (Bias levels, recording levels and frequency response) is dependent upon tape characteristics. The TEAC A-3300 is factory set for Scotch type 150 tape. Service data is based upon the use of Scotch 150 or equivalent tape.

# NOTE

The bias trap tank circuit keeps the bias signal from reaching the record and monitor amplifier and under normal no signal conditions, voltage should not be present at the OUTPUT jacks.

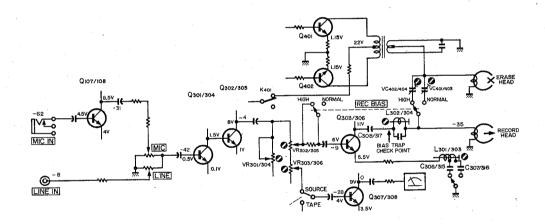


Fig. 7-6 Simplified Diagram - Record-

# BIAS TRAP ADJUSTMENT -

- 1. Place the RECORD BIAS switch to HIGH and place the unit in RECORD with no signal applied.
- 2. Connect a VTVM to the junction of C 309/L 302.
- 3. Adjust L 302 for a minimum reading.
- 4. Connect the VTVM to the junction of C 318/L 304.
- 5. Adjust L 304 for a minimum reading.

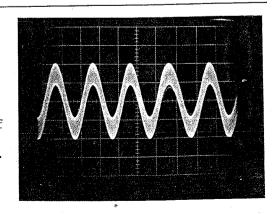


Fig. 7-7 Bias Leakage

#### NOTE

These adjustment are only made at 7-1/2ips tape speed, The bias oscillator frequency is  $100 \pm 5 \text{ kHz}$ .

# -HIGH position-

- 1. Thread record test tape Scotch 203 on the unit.
- 2. Place the bias switch to HIGH and place the unit in the record mode. Place the MONITOR switch in the TAPE position. Apply a 400 Hz signal at -8 dB to LINE IN jacks.
- 3. Adjust capacitor VC 401/403 for a peak on the level meter. Turn the capacitors clockwise until a decrease of 0.5 dB is obtained.

# -NORMAL position-

- 4. Thread record test tape Scotch 150 on the unit.
- 5. Place the bias switch to NORMAL and place the unit in the record mode.
- 6. Adjust capacitor VC 402 and VC 404 for a peak on the level meter. Turn the capacitors clockwise until a decrease of 0.5 dB is obtained.

# RECORD HEAD AZIMUTH ADJUSTMENT -

# Coarse Adjustment

# NOTE

The effect of turning the azimuth screw will not immediately register on the level meter. A slight delay will be noticed. Therefore, the screw must be rotated slightly, and then pause to see the effect.

- 1. Connect a Level Meter to the OUTPUT jacks and an AF oscillator to the LINE IN jacks.
- 2. Place the MONITOR switch to SOURCE and adjust the AF oscillator to obtain a signal of 15 dB below the specified output level. (The level meter will indicate -23 dB.)
- 3. Make certain that the LINE control is at the specified input level position, then set the AF oscillator to 10 kHz.
- 4. Thread a record test tape on the unit and place the mode L·R switches up.
- 5. Place the MONITOR switch in the TAPE position.
- Adjust the azimuth screw for maximum indication of the level meter.

# Fine Adjustment

# NOTE

It is absolutely essential to accomplish the coarse adjustment before using this method, to avoid phase error larger than 45°.

7. Connect the test equipment as shown in Fig. 7-8.

8. Apply a 7.5 kHz signal at -25 dB to the LINE IN jacks and record this signal.

9. Carefully adjust the azimuth screw until the oscilloscope shows the signal to be in phase.

10. Secure the screw with a drop of LOCTITE.

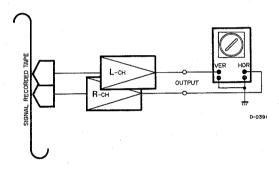


Fig. 7-8 Fine Adjustment Set Up -Head Azimuth-

# RECORD LEVEL SET -

1. The output controls must be at the specified output level position (-8 dB at output jacks).

2. Apply a 400 Hz signal at -8 dB to the LINE IN jacks.

- 3. Place the unit in the record mode, the MONITOR switch in the TAPE position.
- 4. Adjust VR 302/305 for a reading of 0 VU on the VU meter (-8 dB at the OUTPUT jacks).

# OVERALL FREQUENCY RESPONSE -

# IMPORTANT

To avoid saturation of the tape, these checks should be made at least 20 dB below the specified input level. Any bias signal feeding into the test equipment should be filtered out by adjusting the external bias trap. A broad band VTVM may be used on the output of the unit for this adjustment.

# -BIAS switch in NORMAL position-

1. Adjust the AF oscillator to obtain an output level of  $-30~\mathrm{dB}$  (approx. 20 dB below specified output level) at OUTPUT jacks.

- 2. Apply a signal swept from 50 Hz to 15 kHz to the unit while recording on a record test tape. Refer to Fig. 7-9.
- 3. Repeat the above procedure for  $3-3/4\mathrm{ips}$  using a signal from 50 Hz to  $7.5~\mathrm{kHz}$ .

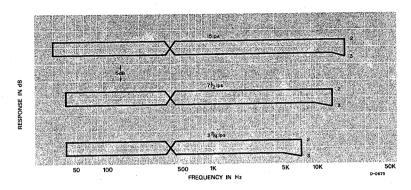


Fig. 7-9 Frequency Response Limits -Record-

# NOTE

If the response is not uniform, the heads should be checked for accumulated oxide and dirt. Then if no dirt is found, the equalization coils L 301/303 should be adjusted.

4. If further adjustment is required, C 306/315 must be changed, if the high end response is too high, a lower value capacitor must be installed.

# -BIAS switch in HIGH position-

No adjustment is given for this procedure.

- 5. Thread a Scotch 203 high output tape on the unit.
- 6. Place the BIAS switch in the HIGH position.
- 7. Repeat the overall response check at both tape speeds.
- 8. The record equalization should give the proper frequency response.

# LEVEL VARIATIONS -

Using Scotch 203 test tape, recorded at the specified level setting with bias control in high position, during playback the output level variations should not exceed those shown in the below chart.

7-1/2ips:	0.5dB at 400Hz
	1.0dB at 10kHz
3-3/4ips:	1.0dB at 5kHz

#### IMPORTANT

Clean and demagnetize the heads before proceeding. It is extremely important that all tests described in the proceeding paragraphs have been completed and that all controls adjusted are left unalterd.

- 1. Thread a record test tape (Scotch 203) on the unit.
- 2. Remove the AF oscillator from the LINE IN jacks.
- 3. Place the unit in the RECORD mode with no signal applied. BIAS switch in HIGH position.

#### NOTE

Noise readings, when taken while recording, may be affected by the bias signal which could be leakings through. It is therefore good practice to rewind the no signal recorded section and take the noise reading during playback.

- 4. Note the point on the index counter where recording begins.
- 5. Rewind the tape and play it back.
- 6. The noise level as indicated on the level meter should be -56 dB or less. (See figure 7-5 Computation Section.)

#### NOTE

Bias, erase and playback amplifier noise are all included in this measurement.
All frequencies between 40 Hz and 15 kHz are measured unweighted.

# ERASE EFFICIENCY -

# NOTE

To measure erase efficiency, a 1 kHz band pass filter (TEAC M 204 CL filter) must be used.

Due to the high level of this signal, it is recommended that only a short recording be made (approximately 30 seconds) to prevent damage to the VU meter.

- 1. Apply a 1 kHz signal at 0 dB to the LINE IN jacks.
- 2. Place the unit in record mode and record this signal.
- 3. Rewind the recording to the beginning and remove the AF oscillator from the LINE IN jacks.
- 4. Place the unit in RECORD mode and record over this portion of tape again.
- 5. Rewind the tape to the starting point and connect a level meter to the OUTPUT jack, through the 1 kHz band pass filter.
- 6. Play the erased portion of the tape.
- 7. The level meter should indicate -60 dB or less.

# 8.A-3340 MEASUREMENT AND ADJUSTMENT -ELECTRICAL-

Outlined procedures refer only to FRONT channels, the same procedures also apply to REAR channels.

Before performing checks set all head function selector switches to NORMAL position.

Power supply check and adjustment. Check the voltage at VR-1 and adjust to 24V DC if required. (Refer to control board on the schematic diagram.)

Place MONITOR switches (L1-R3, L2-R4) in TAPE position, place tape speed control at H (high), place PLAY switch in 4 CHAN position.

# SPECIFIED OUTPUT LEVEL -

- 1. Play the  $400~\mathrm{Hz}$  tone in section 1 of the test tape. This tone is recorded at operating reference level (1% of the THD level).
- THD: Third Harmonic DistortionTurn the output controls fully clockwise, and adjust VR 201/203 for +2 dB reading on level meter.
- 3. Then retard output controls until a  $-8~\mathrm{dB}$  is obtained on the level meter at the OUTPUT jacks.

# NOTE

This is the specified output level. Do not disturb this setting until the remaining adjustments have been completed.

# VU METER CALIBRATION (PLAYBACK) -

4. While playing the 400 Hz tone (1% THD) in section 1 of the test tape, adjust VR 202/204 for reading of 0 VU on the VU meters.

- 5. Set tape speed to H(high) position. Using test tape YTT-1004, play the test tones from 15 kHz down to 50 Hz (recorded at 10 dB below operating reference level).
- 6. Compare the readings obtained on the level meter with the response limits given in figure 8-1
- 7. In case of any deviation in the response curve, check head azimuth alignment, clean the heads, then adjust VR 101/102 for the best response.
- 8. Set tape speed to L(low) using test tape YTT-1003.

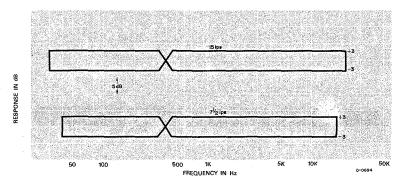


Fig. 8-1 Frequency Response -Playback-

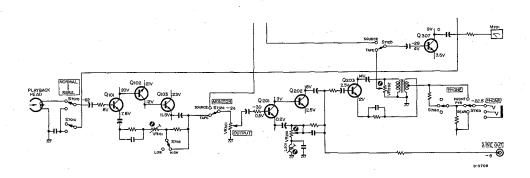


Fig. 8-2 Simplified Diagram

# MONITOR PERFORMANCE

#### MINIMUM INPUT LEVEL-

Line Input

With output controls at specified output level

- 1. Connect an AF oscillator to the LINE IN jacks.
- 2. Apply a 400 Hz signal at -18 dB.
- 3. Place the MONITOR switches FRONT and REAR in the source position and turn the LINE controls fully clockwise.
- 4. Adjust VR 301/304 to obtain a specified output level of -8 dB at OUTPUT jacks.

# Mic Input

- 5. After adjusting VR 301/304, apply a 400 Hz signal at -70 dB to the MIC IN jacks.
- 6. Rotate the MIC controls fully clockwise.
- 7. The output should be -8 dB (specified output level).

#### SPECIFIED INPUT LEVEL SET-

With output controls at specified output level

- 8. Apply a 400 Hz signal at -8 dB to the LINE IN jacks.
- 9. Adjust the line controls for -8 dB at the OUTPUT jacks.

#### NOTE

Do not disturb the specified input level position of these controls until the remaining checks and adjustments are completed.

The difference between the channels must not exceed  $\pm 2$  dB as indicated on the level meter. If they are not within limits, check the amplifier gain and the LINE control settings.

# VU METER CALIBRATION -RECORD--

10. With the same 400 Hz signal at -8 dB applied and the MONITOR switches FRONT and REAR in SOURCE, adjust VR 303/306 for O VU on the VU meters.

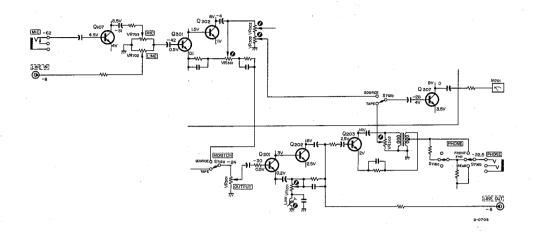


Fig. 8-3 Simplified Diagram -Monitor-

# SIMUL SYNC FREQUENCY RESPONSE -

15 ips and 7-1/2 ips response should be identical. Frequency response in simul-sync function is measured as in normal operation.

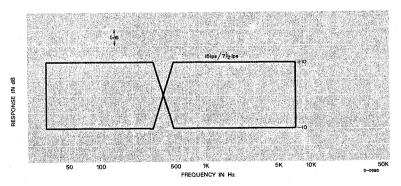
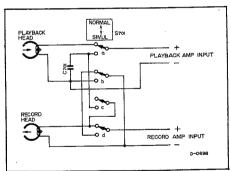


Fig. 8-4 Simul Sync Frequency Response Limits



Simul Sync Diagram

# RECORD PERFORMANCE

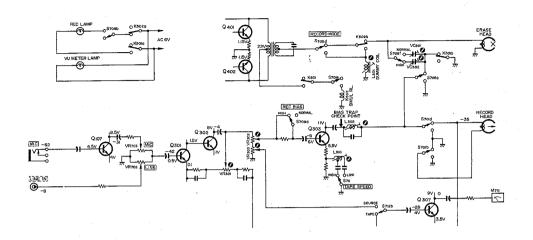


Fig. 8-5 Simplified Diagram -Record-

# NOTE

The bias trap tank circuit keeps the bias signal from reaching the record and monitor amplifier and under normal no signal conditions, voltage should not be present at the OUTPUT jacks.

# BIAS TRAP ADJUSTMENT -

- 1. Place BIAS switch in HIGH position.
  Place MONITOR switch in TAPE position.
  Place all record mode switches ON.
  Place tape mode lever at PAUSE position.
  Depress record and buttons.
- 2. Connect a VTVM to the junction of C-309/L-302. Adjust L-302 for minimum reading.
- 3. Connect a VTVM to the junction of C-318/L-304. Adjust L-304 for minimum reading.

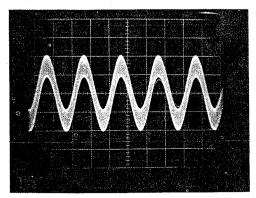


Fig. 8-6 Bias Leakage

#### BIAS ADJUSTMENT -

NOTE

Adjust BIAS trap (L 302/304) before adjusting BIAS levels.

# NORMAL Position

1. Thread a record test tape (Scotch 150) on the unit. Place BIAS switch in NORMAL position.

2. Place MONITOR switches in TAPE position.

3. Apply a 400 Hz signal at -8 dB at the LINE IN jacks.

4. Adjust VC 501/503 for a peak on the level meter.

5. Turn the capacitors clockwise until a decrease of 0.5 dB is obtained.

#### HIGH Position

1. Thread a record test tape (Scotch 203) on the unit. Place BIAS switch to HIGH position.

2. Place MONITOR switches in TAPE position.

3. Apply a 400 Hz signal at -8 dB at the LINE IN jacks.

4. Adjust VC 502/504 for a peak on the level meter.

5. Turn the capacitors clockwise until a decrease of 0.5 dB is obtained.

## RECORD LEVEL SET -

- 1. Using Scotch 203 tape, BIAS switch at HIGH position. Apply a 400 Hz signal at -8 dB at the LINE IN jacks.
- 2. OUTPUT controls must be at specified output level setting (-8 dB at OUTPUT jacks).
- 3. Place unit in record mode, monitor switches in the SOURCE position.
- 4. Adjust VR 302/305 for a reading of 0 VU on the VU meters. (-8 dB at the OUTPUT jacks.)

## OVERALL FREQUENCY RESPONSE-

To avoid saturation of the tape these checks should be made at least 20 dB below the specified input level. Any bias signal feeding into the test equipment should be filtered out by adjusting the external bias trap. A broad band VTVM may be used at the output for this adjustment.

# -BIAS switch in NORMAL position-

1. Thread the unit with a record test tape (Scotch 150). Set tape speed selector to H (15ips).

2. Adjust the AF oscillator to obtain an output level of  $-23~\mathrm{dB}$ 

at OUTPUT jacks.

3. Apply a signal swept from 50 Hz to 18 kHz to the unit while recording on the test tape. With MONITOR switch at TAPE position monitor the output at the VTVM. See figure 8-7 for proper response limits.

4. Repeat the above procedures for L (7-1/2ips), using a signal

swept from 50 Hz to 15 kHz.

#### NOTE

If response is not uniform the heads should be checked for accumulated dirt or tape oxide.

If heads are clean the equalization coils L 301 and L 303 should be adjusted (both speed).

# -BIAS switch in HIGH position-

- 1. Thread the unit with a record test tape (Scotch 203).
- 2. Repeat the overall response check at both tape speeds. The record equalization should give the proper frequency response.

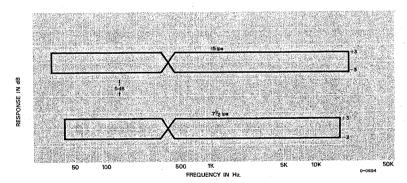
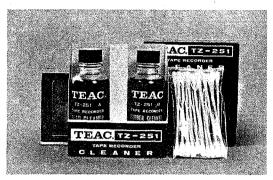


Fig. 8-7 Frequency Response Limits

# 9. PREVENTIVE MAINTENANCE



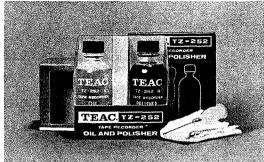


Fig. 9-1 Maintenance Equipment

CLEANING .

If excess oxide accumulates on the surface of tape path components, normal operation and characteristics cannot be expected. Periodic cleaning should be done with proper cleaning materials. Refer to Operating Instructions.

# DEMAGNETIZATION -

Metal parts in contact with the tape will become magnetized after long periods of use(except erase head). Magnetization of record/playback heads causes noise in recording and reproduction and heads should be demagnetized at every 50 hours of use, and before any important recording is done. Refer to Operating Instructions.

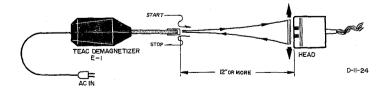


Fig. 9-2 Demagnetization

#### LUBRICATION-

Under normal conditions the unit will not require lubrication. Most of the bearings and bushings are of the oilless type. Since there are many rubber parts in the transport mechanism, excessive or improper lubrication could cause problems. If lubrication is required, the following points should be lubricated:

Parts to be lubricated should be cleaned and old oil and dirt removed before relubricating. Observe instructions as to type of oil, points to be lubricating.

Motors should be lubricated immediately after use while still warm. After oiling motors keep the unit in the horizontal position for 2-3 hours to allow thorough absorption of oil.

#### VENTILATION -

During use the face plate of the A-3340/3300 may become quite warm to the touch, this entirely normal.

AS long as the air vents in the rear plate are unobstructed, the unit will not overheat.

However, if the unit is placed snugly against a wall, or free air passage is prevented, overheating and possible damage may occur.

#### 10. TROUBLE SHOOTING

#### - NOTE-

About 50% of the units that are returned for repair do not function properly due to poor connections, dirty heads, poor tape, or improper operation.

The following guide lists specific difficulties that could occur in the A-3300/3340

Several possible causes are listed for each malfunction. Visually inspect the unit for any damage such as broken or burned components or wiring, loose connections, etc.

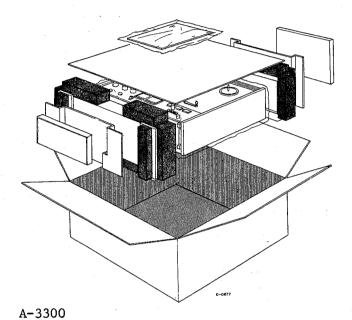
		· · · · · · · · · · · · · · · · · · ·
MALFUNCTION	POSSIBLE SOURCE OF TROUBLE	CORRECTIVE PROCEDURE
Capstan fails to turn	Belt off slipping, line fuse(F-1), auto-shut off switch(SW-2), speed select switch(SW-8).	Refer to schematic diagram and repair or replace the defective components.
Pinch roller fails to contact capstan in play mode	AC voltage, position, stop switch(SW-3), rewind relay (K-1), capstan solenoid.	The normal DC resistance of the capstan solenoid is 1.3k ohms. Refer to schematic diagram and repair or replace the defective components.
Right reel does not rotate in the play mode	Resistor(R-2), rewind relay (K-1), capacitor(C-4)	Refer to schematic diagram and repair or replace the defective components.
Left reel does not rotate in play mode	Resistor(R-3), rewind relay (K-1), capacitor(C-5)	Refer to schematic diagram and repair or replace the defective components.
Left reel operates with low torque	Resistor(R-6), tension switch	Repair or replace defective components.
Both reel motors fail to operate	Operating relay(K-1)	Clean contacts on (K-1) or replace relay.
Recorder does not operate in forward play	Remote control jumper plug missing or loose, stop switch(SW-8), operate relay (K-1), brake solenoid, diode(DC 24V)	Normal DC resistance of the brake solenoid is 1.3k ohms. Refer to schematic diagram and repair or replace the defective components.
Playback noise or hum	Faulty connections, head selector switch, faulty playback head, faulty amplifier	Repair or replace defective components.
(	amplifier	

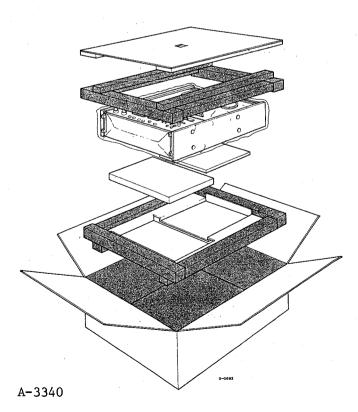
MALFUNCTION	POSSIBLE SOURCE OF TROUBLE	CORRECTIVE PROCEDURE
Noise or hum during record	Magnetized head, faulty connections, mic level set to maximum, faulty record amplifier, record relay (K-401).	Demagnetize and clean head, repair or replace defective components.
Wow & flutter	Defective tape, dirty or defective pinch roller, oily or defective belt, reel motor tension.	Clean or replace defective components. Adjust motor tension.
Incorrect tape speed	Drive belt in wrong posi- tion. Incorrect pinch roller pressure.	Reposition drive belt. Adjust pinch roller pressure.
Brakes do not release	Defective brake solenoid	The D.C. resistance of the brake solenoid should be 1.3k ohms. Replace solenoid.
Fast forward or rewind mode inoperative	Rewind relay(K-3)	Refer to schematic diagram and repair or replace the defective components.
No record and/or no erase	Record head dirty, erase head dirty, operate relay (K-1), record switch(SW-6), record relay(K-401), record amplifier, bias oscillator, record head, erase head.	Refer to schematic diagram and repair or replace the defective components. For record amplifier trou- bleshooting refer to volt- age chart.
No playback	Playback head dirty, amplifier to deck connections, monitor switch(SW-501), playback amplifier.	Refer to playback amplifier voltage chart.

#### 11. PACKING FOR SHIPMENT

#### SHIPPING INSTRUCTIONS

If the unit is to be sent back to the TEAC factory (service department) for repair, carefully pack as shown below.







TEAC CORPORATION	3-7-3 NAKA-CHO MUSASHINO TOKYO PHONE (0422) 53-1111
TEAC CORPORATION OF AMERICA	7733 TELEGRAPH ROAD MONTEBELLO CALIFORNIA 90640 PHONE (213) 726-0303
TEAC AUSTRALIA PTY., LTD.	115 WHITEMAN STREET SOUTH MELBOURNE VICTORIA 3205 PHONE 699-6000

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# EXPLODED VIEW AND PARTS LIST

FOR A-3300

#### REPLACEMENT INFORMATION

Replacement part are available through your nearest TEAC dealer or directly from the TEAC office.

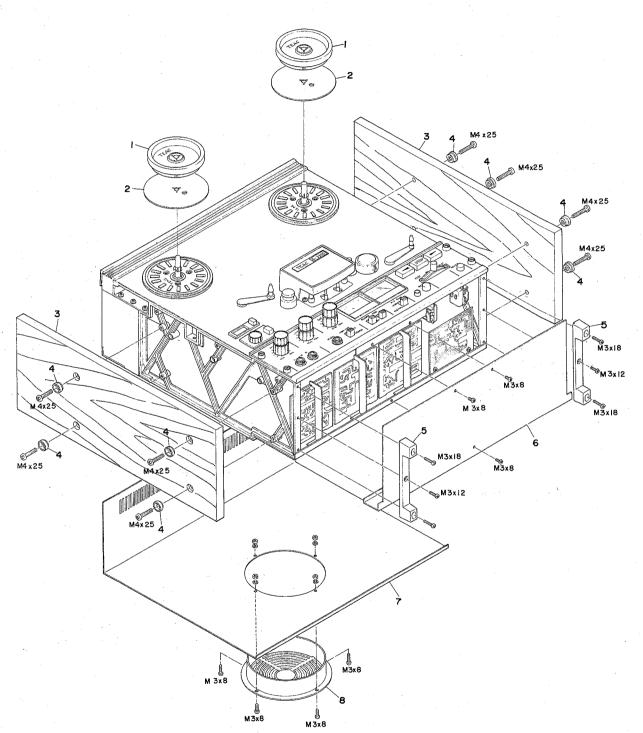
Changes are constantly being made to make TEAC products better and more reliable.

Therefore, when ordering parts, always include the following information:

MODEL SERIAL NO. REF NO. PART NO. DESCRIPTION

TEAC CORPORATION

# TRIM PARTS

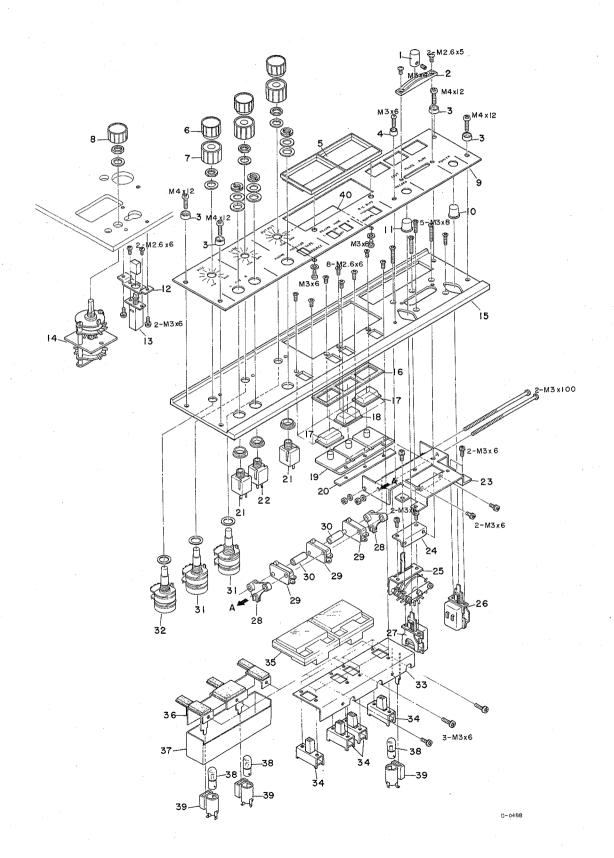


D-0486

# TRIM PARTS

REF	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
1-1	50160270	Reel Holder			
1-2	50162851	Reel Table Mat			
1-3	50288011	Side Board, A (Right)			
		Side Board, B (Left)			
1-4	50276930	Washer, Trim			
1-5	50277980	Mount Foot			
1-6	50296730	Cover, Bottom			
1-7	50287620	Cover, Rear Assy			
1-8	50276961	Cover, Fan			

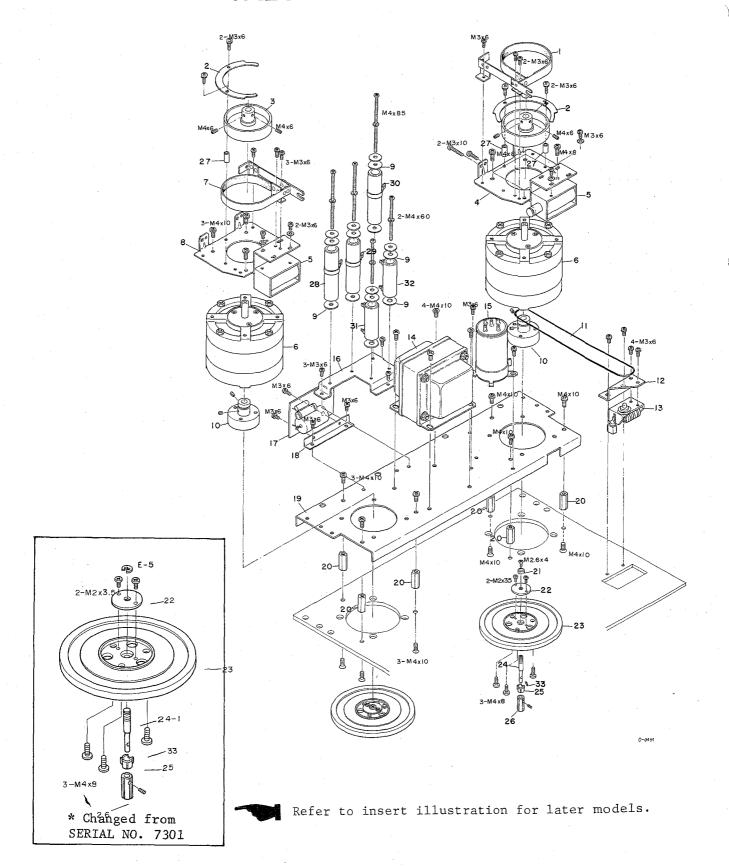
# CONTROL PANEL



# CONTROL PANEL

REF	TEAC				
NO.	PARTS NO.	DESCRIPTION	1st	2nd	3rd
0 1	F00F0/70	W 1 0 1 0 1			
2- 1					
2- 2	50449900	Cover, Lever Switch			
2- 3	50277111	Washer, Trim			-
2- 4		Holder, Pilot			ļ
2- 5	50279830	Escutcheon, VU Meter			
2- 6		Knob, Upper			
2- 7		Knob, Lower			
2- 8		Knob, Upper			
2- 9		Trim Panel, Amp			
	50253120	Push Button, A			
2-11		Push Button, B			
2-12		Plate, Push Switch			
2-13		Switch, Push			
	50253561	Push Button, Push Switch			
2-14	50442360	Switch, Rotary			
2-15	50113452	Panel, Front			
2-16	50277160	Rubber Protector			
2-17	50253210	Push Button, Operate			
2-18	50253200				
2-19	50253113	Push Button Base			
2-20	50277240	Rubber Plate	ļ	*	
2-21	50430240	Jack, Phone, Single			
2-22	50432450	Jack, Phone, 3 cond			
2-23	50277781	Plate, Control Base		·	
2-24	50277771	Plate, Lever Switch			
2-25	50442350	Switch, Rotary (Lever Type)			
2-26	50443210	Switch, Push			
2-27		Switch, Push	·		
2-28	50241120	Spacer, Control SW, A			
2-29	50446170	Switch, Micro			
2-30		Base Plate Holder		:	1
2-31		Potentiometer, Dual $10k\Omega A \times 2$			
2-32	50537090	Potentiometer, Dual $100k\Omega A \times 2$			
2-33	50330541	Plate, Slide Switch			
2-34	50444170	Switch, Slide	50440000		
2-35	50581331	VU Meter	30440000		•
2-36		Meter Retainer Assy			
2-37		Light Shield Housing			
2-38	50414131	Lamp, Record 8V	50414510		
2-39	50415030	Socket, Lamp	50415250		
2-40	50331630		J0413230		
_ 70	20224030	Clamp, Meter Escutcheon	!		1

# REEL MOTOR ASSY

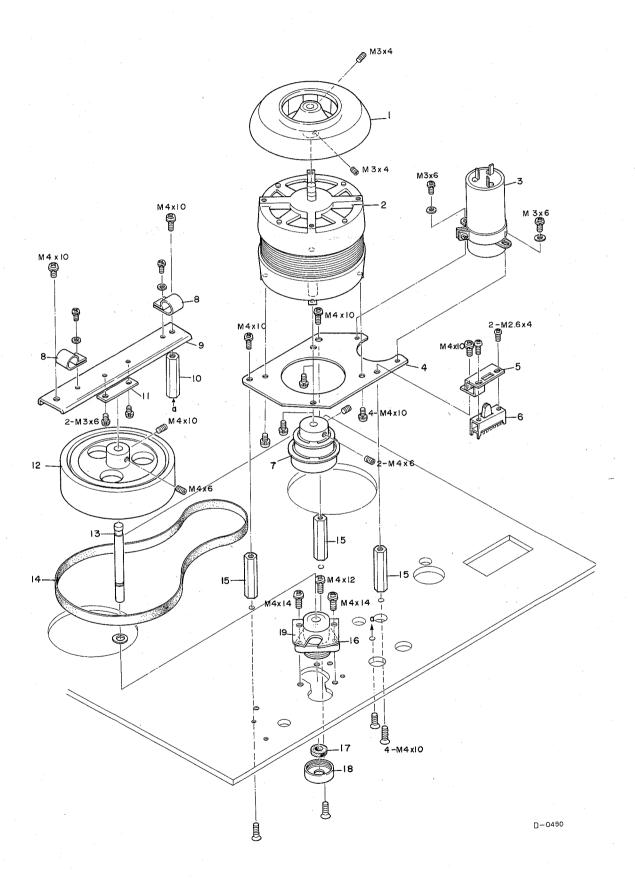


# REEL MOTOR ASSY

REF.	TEAC			[	
NO.		DESCRIPTION	lst	2nd	3rd
2_ 1	50173331	Proto Pond Accord		·	
3- 2		Brake Band Assy, L Brake Retainer			
3- 3		Brake Drum			
3- 4		Plate, Reel Motor, L	50173501	,	,
3- 5		Solenoid, Brake	J01/3J01		
3- 6					
3- 7		Brake Band Assy, R			
3- 8		Plate, Reel Motor, R	50173501		
3- 9		Washer	302,030=		
3-10	50163121	Reel Table Drum			
3-11	50279980	Belt, Counter			
3-12	50279970	Plate, Counter			
3-13	50585090	Counter			
3-14	50561912	Transformer, Power (DM)			
	50561922	Transformer, Power (EX) or 505619	962		
3-15		Cap., Motor $(5.3 + 0.7)\mu F \times 2$ 250	VV		*
3-16		Plate, Resistor			
3-17		PC Board, Rectifier			,
3-18		Angle, PC Board, B			
3-19		Chassis, Reel Motor			
	50161950	Stand-off, Reel Motor			
3-21		Washer, Shoulder, Lock Shaft	*E Ring 3	<b>S</b>	•
3-22		Shaft Retainer			
3-23		Reel Table			,
		Reel Table Mat			·
	50163130	Shaft, Reel Lock	*50163210		
3-25		Reel Lock			
3-26		Knob, Reel Lock			
3-27		Spacer, Brake Retainer			
3-28		Resistor, Wire Wound 150 $\Omega$ 30HA	·		
3-29	50522240	Resistor, Wire Wound 50 Ω 30HA			
3-30		Resistor, Wire Wound 250 \Omega 30HA			
3-31		Resistor, Wire Wound 200 Ω 20HA			
3-32		Resistor, Wire Wound 20Ω 20HA			
3-33	50221610	Spring, Slip			

<sup>\*</sup> Changed from SERIAL NO. 7301

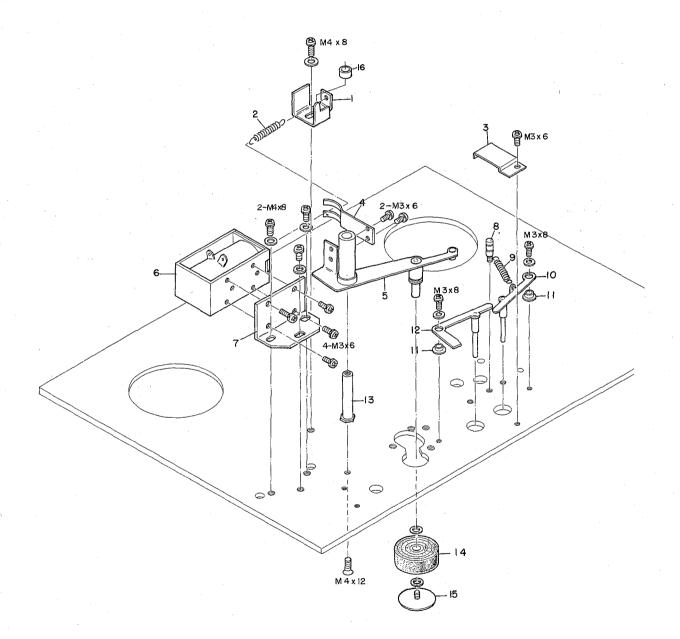
# CAPSTAN DRIVE ASSY



# CAPSTAN DRIVE ASSY

REF	TEAC				
NO.	PARTS NO.	DESCRIPTION	lst	2nd	3rd
, ,	5010000	-			
4- 1	50123980	Fan			
4- 2		· · · · ·			
		Cap., Motor (2 + 0.8)µF 250V			
4- 4	50123870	Plate, Capstan Motor			
4- 5	50276910	Bracket, Slide Switch			
4- 6	50444170	Switch, Slide			
4- 7.	50124002	Pulley, Motor			
4- 8	50276280	Clamp, Wire, A			
4- 9		Angle, Thrust			
4-10	50123860	Stand-off, Flywheel			
4-11	50277230	Plate, Thrust			
4-12	50123801	Flywheel, Capstan			
4-13					
4-14	50123830	Belt, Capstan (A-3300-10, 12 only	7)		
	50125340	Belt, Capstan (A-3300-11 only)			
4-15		Stand-off, Capstan Motor			
4-16		Capstan Assy			
	50123900	Sponge Oiler			
4-18		• •	)		
. 20	50125351	•	<b>'</b>		
4-19	50141830				
- +J	201-1000	1 2000 5 212111	.1		•

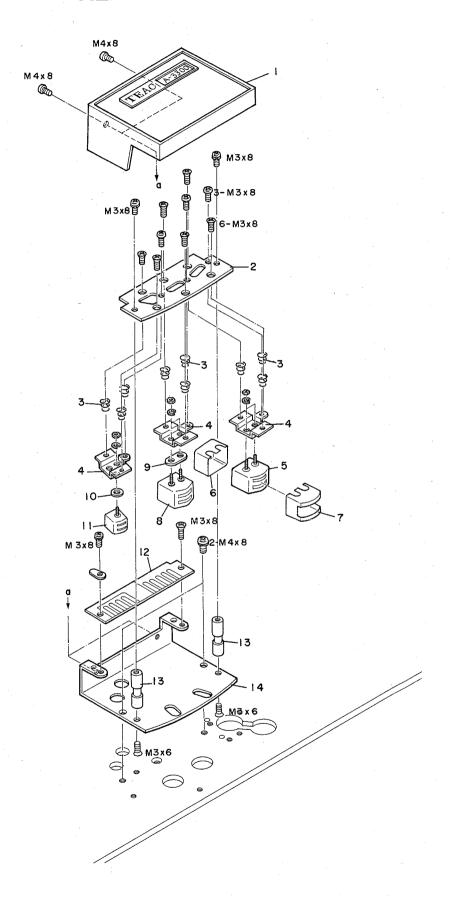
# LIFTER AND PINCH ROLLER



#### LIFTER AND PINCH ROLLER

REF	TEAC	77	·		
NO.	PARTS NO.	DESCRIPTION	1st	2nd	3rd
	501/10/1	7. (. a. p. 1 p. 11			
5- 1	50141841	Limit Stop, Pinch Roller			
5- 2	50220441	Spring			
5- 3	50152452	Plate, Lifter			
5 <b>-</b> 4	50221151	Spring, Pressure		}	
5- 5	50140235	Arm, Pinch Roller, Assy		* .	
5 <b>-</b> 6	50616340	Solenoid, Pinch Roller			
5- 7	50277080	Plate, Solenoid			
5- 8	50123140	Pin, Lifter Spring		}	
5- 9	50221100	Spring, Lifter, A		,	
5-10	50150251	Arm, Lifter, B			
5-11	50152501	Shaft, Lifter Arm			
5-12	50150241	Arm, Lifter, A			
5-13	50141821	Shaft, Roller Arm			
5-14	50141750	Pinch Roller			
5-15	50142180	Cap, Pinch Roller		•	
5-16	50275690	Cushion, Rubber			

# HEAD ASSY



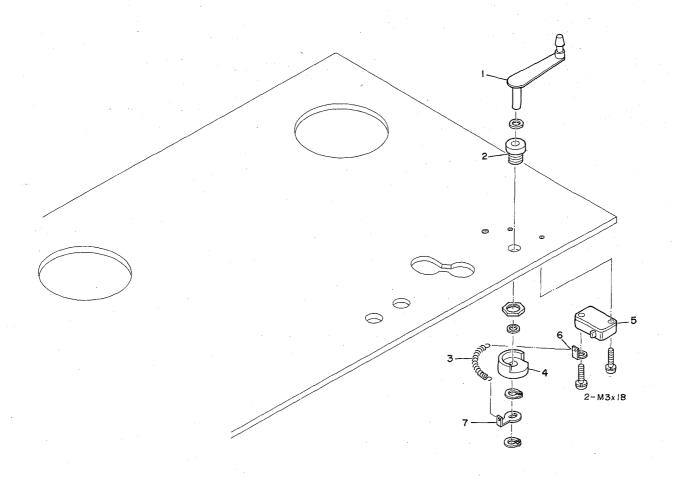
#### HEAD ASSY

REF NO.	TEAC PARTS NO.	DESCRIPTION	lst	2nd	3rd
	E0120200	Head Assy(A-3300-10 only)			-
	50130300	· · · · · · · · · · · · · · · · · · ·			
	50130491	Head Assy(A-3300-11, 12 only)			
6- 1	50130251	Head Housing			
		Plate, Head Mount Base		'	*
		Spring, Head			
	50134370	<u>-</u>			
6- 5*		Head, Playback			
6- 6	50133900	Shield Case, B			
6- 7	50133891	Shield Case, A		,	
6- 8*		Head, Record			
6- 9	50134390	Spacer, Record Head		·	
6-10	50134380	Spacer, Erase Head			
6-11*		Head, Erase	,		
6-12	50482351	· · · · · · · · · · · · · · · · · · ·			
6-13	50182672	•			
6-14	50134350	Plate, Housing Base			.*
		A control of the cont	<i>2</i>		
		following chart.	,		

#### HEAD CONFIGURATION

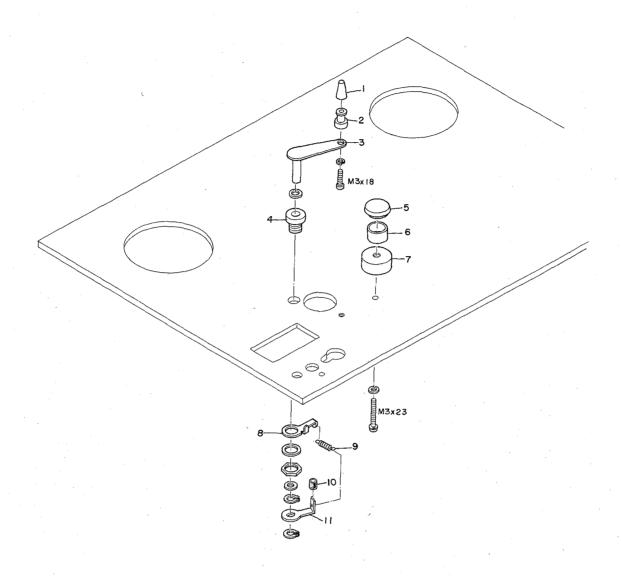
APPLICABLE ON MODEL		A-3300-10	A-3300-11	A-3300-12
TRACK/CHANNEL		4T/2-CH	2T/2-CH	2T/2-CH
TAPE SPEED		APE SPEED 3-3/4,7-1/2 ips 7-1/2,15 ips		3-3/4,7-1/2 ips
DEE NO	TIDA D	DADES NO	DADEG NO	DADEG NO
REF.NO.	HEAD	PARTS NO.	PARTS NO.	PARTS NO.
6- 5	PLAYBACK	50669040	50668050	50668050
6- 8	RECORD	50666040	50665040	50665040
6-11	ERASE	50663030	50662030	50662030

# RIGHT TENSION ARM



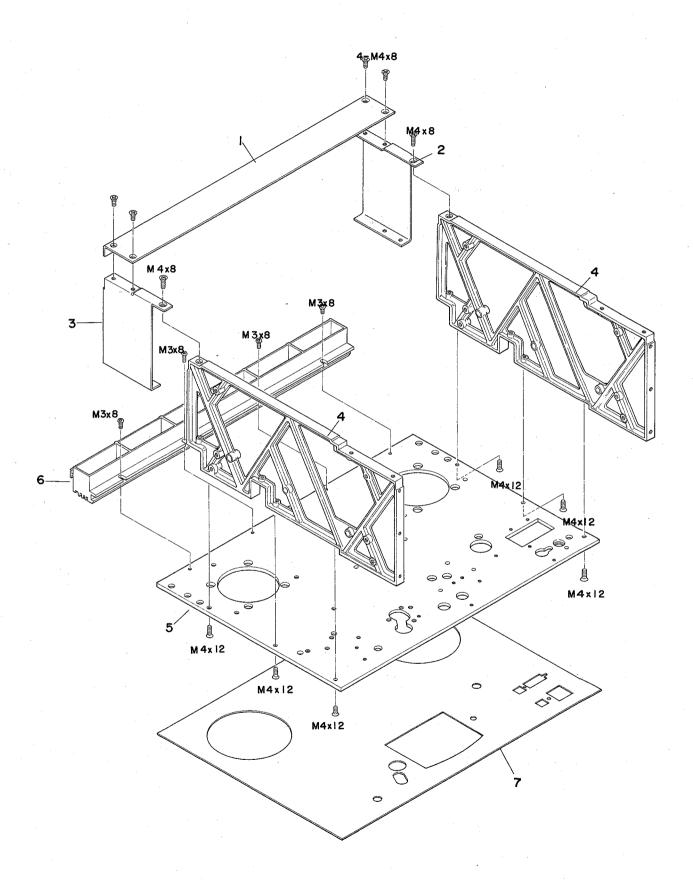
REF NO.	TEAC PARTS NO.	DESCRIPTION	·	1st	2nd	3rd
7-2	50182701 50221121 50182990	Tension Arm Assy, L Bushing, Arm, A Spring, Tension Arm, C Spring Retaining Drum Switch, Micro	-			
7-7	50286860	Spring Hook, Right				

# LEFT TENSION ARM



REF	TEAC				
NO.	PARTS NO.	DESCRIPTION	1st	2nd	3rd
8- 1	50134360	Cap, Tape Guide			
8 <b>-</b> 2	50182690	Tape Guide, B			
8- 3	50182821	Tension Arm Assy, L			
8- 4	50182701	Bushing, Arm, A			
8- 5	50123910	Cap, Guide Ring			
8- 6	50123930	Guide Ring			
8- 7	50123921	Guide Ring Base			
8- 8	50276870	Spring			
8- 9	50221110	Spring, Tension Arm, B			
8-10	50276990	Collar, Rubber			
8-11	50182750	Limit Stop, Tension Arm L			

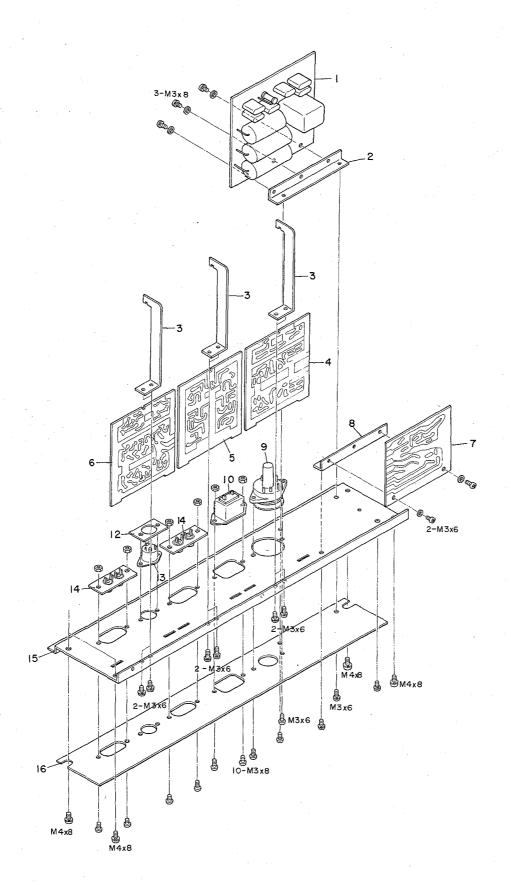
# MAIN CHASSIS



# MAIN CHASSIS

REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
9-1	50235310	Angle, Rear Cover			
9-2		Panel, Side, Left			
9-3		Panel, Side, Right			
9-4	50112712	Frame, Side			
9-5	50113374	Panel, Chassis			
9-6	50112980	Air Vent			
9-7	50113382	Trim Panel, A (A-3300-10, 12 only	)		
	50113392	· · · · · · · · · · · · · · · · · · ·			

#### REAR PANEL



# REAR PANEL

REF	TEAC				
NO.	PARTS NO.	DESCRIPTION	1st	2nd	3rd
10 1	E0505170	DC Pared Ages Control Poles		-	
10- 1		PC Board Assy, Control Relay			
	50276840	Angle, A			
10- 3	50233760	Plate, PC Board			
10- 4	50505210	PC Board Assy, Rec and Meter Amp			
10- 5	50505150	PC Board Assy, Line and Phone Am	p		
10-6	50505160	PC Board Assy, Mic and Playback	EQ Amp		
10- 7	50505140	PC Board Assy, Bias Oscillator			
10-8	50276850	Angle, B			
10- 9	50412170	Voltage Selector, with Fuse Holde	er		
		(DM, UL only)			
	50412130	Fuse Holder (TCA only)			·
	50419010	Fuse Post Adapter			
10-10	50431050	Socket, AC			
10-11	50454071	Terminal, Ground			
10-12	50233530	Plate, DIN Connector			
10-13	50430010	Connector, DIN			
	50434631	Jack, Pin, 2P			
	50234700	Chassis, Amp	50264621	,	
		•	30204021		
TO-TO	50263104	Trim Panel, Rear		i .	1

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# PRINTED CIRCUIT BOARD AND PARTS LIST

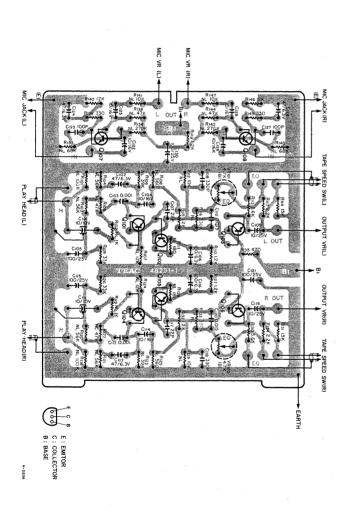
FOR A-3300

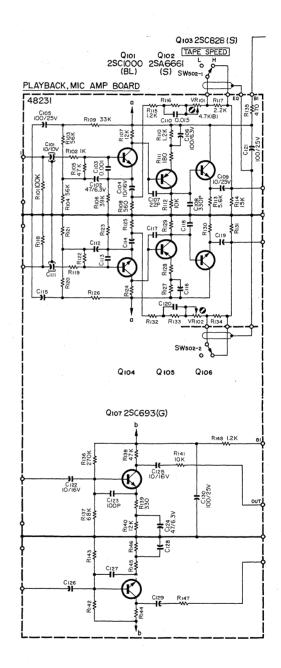
TEAC CORPORATION

# MIC AND PLAYBACK EQ.AMPLIFIER

50505160 PC Board Assy (A-3300-10,12 only) 50489960 PC Board Assy (A-3300-11 only)  SILICON TRANSISTORS  Q101/104 50424240 2SC1000-BL (or 2SC732-BL) Q102/105 50424210 2SA6661-8 (or 2SA494-Y) Q102/105 50424210 2SA528-8 (or 2SC732-Y) Q107/108 5042320 2SC8093-G (or 2SC732-Y) Q107/108 5042320 2SC8093-G (or 2SC369-BL)  CARBON RESISTORS  ALL RESISTORS IN OBMS, 108 TOLEBANCE, 1/4 MATTS UNLESS OTHERWISE NOTED.  R101/118 5051540 100k R102/119 5051540 10k R102/119 5051540 56k R102/122 5051530 56k R102/122 5051530 56k R102/122 5051550 156k R102/122 5051550 12k R102/124 5051550 12k R102/124 5051550 12k R102/125 5051531 560 R102/124 5051550 12k R112/129 5051530 12k R112/129 50515490 10k R112/130 5051540 2k R113/130 5051540 3 3k 5% (A-3300-10,12 only) S051530 1 8% 3% (A-3300-11 only) R117/134 50515130 470 R137/134 50515130 470 R137/134 5051520 60k R137/134 5051520 12k R138/144 50515300 470 R138/144 50515300 470 R138/144 50515300 12k R141/147 50515400 Elec.  TRIMMER RESISTOR  VR101/10 5053400 & Lick R141/147 50515400 Elec.  ALL CAPACITORS IN MICRO FARADS  UNLESS OTHERWISE NOTED.  C101/11 5054601 Tantalum 10 10V C102/112 50554030 Elec.  ALL CAPACITORS IN MICRO FARADS  UNLESS OTHERWISE NOTED.  C101/110 5054620 Bilec. 100 6.3V C105/115 50554030 Elec. 100 6.3V C105/115 5054400 Elec. 100 25V C105/115 5054400 Elec. 100 55V C105/117 5054400 Elec. 100 55V C105/119 50554400 Elec. 100 55V	CIRCUIT REF.NO.	TEAC PARTS NO. DESCRIPTION	1st	2nd	3rd
S0489960 PC Board Assy (A-3300-11 only)	,	50505160 PC Board Assv (A-3300-10.12 on1	v)		
Q101/104 50424240 2SC1000-BL (or 2SC732-BL) Q102/105 50424210 2SA6661-S (or 2SA494-Y) Q103/106 50424210 2SC828-S (or 2SC733-Y) Q107/108 50423270 ZSC693-G (or 2SC339-BL)  CARBON RESISTORS  ALL RESISTORS IN OWNS, 10% TOLERANCE, 1/4 WATTS UNLESS CTHERWISE NOTED.  R101/118 50515400 100 R102/119 50515400 10 R103/120 50515400 10 R103/120 50515400 10 R103/120 50515400 10 R103/120 50515500 47k R103/120 50515500 47k R103/120 50515500 12k R103/121 50515500 12k R104/121 50515500 12k R104/121 50515500 12k R104/124 50515500 12k R111/128 50515500 10k R113/130 50515400 5.6k R113/130 50515400 5.6k R113/130 50515400 10k R113/130 50515400 5.6k R114/131 50515500 12k R116/133 50515500 12k R116/133 50515500 47k R116/133 50515500 12k R116/134 50515500 12k R136/142 50515500 12k R136/143 50515200 30 R146/146 50515500 12k R136/147 50515300 12k R136/148 50515300 12k R148/147 50515300 12k R148/147 50515300 12k R149/145 50515300 12k R149/					
Q101/104 50424240 2SC1000-BL (or 2SC732-BL) Q102/105 50424210 2SA6661-S (or 2SA494-Y) Q103/106 50424210 2SC828-S (or 2SC733-Y) Q107/108 50423270 ZSC693-G (or 2SC339-BL)  CARBON RESISTORS  ALL RESISTORS IN OWNS, 10% TOLERANCE, 1/4 WATTS UNLESS CTHERWISE NOTED.  R101/118 50515400 100 R102/119 50515400 10 R103/120 50515400 10 R103/120 50515400 10 R103/120 50515400 10 R103/120 50515500 47k R103/120 50515500 47k R103/120 50515500 12k R103/121 50515500 12k R104/121 50515500 12k R104/121 50515500 12k R104/124 50515500 12k R111/128 50515500 10k R113/130 50515400 5.6k R113/130 50515400 5.6k R113/130 50515400 10k R113/130 50515400 5.6k R114/131 50515500 12k R116/133 50515500 12k R116/133 50515500 47k R116/133 50515500 12k R116/134 50515500 12k R136/142 50515500 12k R136/143 50515200 30 R146/146 50515500 12k R136/147 50515300 12k R136/148 50515300 12k R148/147 50515300 12k R148/147 50515300 12k R149/145 50515300 12k R149/					
0102/105   50424210   25A6661-5   (or 2SA94-Y)     0103/106   50424220   50424220   502628-5   (or 2SC733-Y)     0107/108   50424220   50528-5   (or 2SC369-BL)     CARBON RESISTORS		SILICON TRANSISTORS			
CARBON RESISTORS  ALL RESISTORS IN ORMS, 10% TOLERANCE, 1/4 MATTS UNLESS CTHERNISE NOTED.  R101/118 50515640 100k R103/120 50515610 56k R103/120 50515610 56k R105/122 50515590 47k R106/123 50515590 12k R109/124 50515500 12k R109/125 50515310 560 R109/126 50515370 33k R110/127 30515350 1.2k R111/128 50515590 180 R111/128 50515590 180 R111/128 50515590 10k R111/128 50515590 10k R111/128 50515500 12k R111/128 50515500 12k R111/128 50515500 180 R111/129 50515590 10k R111/129 50515590 10k R111/131 50515510 15k R111/131 50515510 15k R111/131 50515510 15k R115/132 5051570 820k (A-3300-10,12 only) S0515750 560k (A-3300-11 only) R117/144 50515400 3.3k 5% (A-3300-10,12 only) R13/143 50515500 12k R136/142 50515700 270k R137/143 50515500 47k R139/144 50515500 12k R141/147 50515400 300 R148 50515300 12k R141/147 50515400 300 R148 50515300 12k R141/147 50515400 10k R148 50515300 12k R141/147 50515400 10k R148 50515300 R12k R141/147 50515400 Elec. 47 6.3V C100/112 50554000 Elec. 10 16V C102/112 50554000 Elec. 10 16V C101/111 50546010 Tantalum 10 10V C102/112 50554030 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/113 50554300 Elec. 10 0 25V C106/116 50554230 Elec. 10 0 25V C106/118 5054330 High Q 22 50V C106/118 50554300 Elec. 10 0 25V C106/118 50554300 Elec. 10 25V	Q102/105 Q103/106	50424210 2SA666I-S (or 2SA494-Y) 50424220 2SC828-S (or 2SC733-Y)	. •		
ALL RESISTORS IN OBMS, 10% TOLERANCE, 1/4 WATTS UNLESS OTHERWISE NOTED.  RIO1/118 50515640 100k R103/120 50515610 56k R103/121 50515510 56k R103/122 50515500 47k R106/123 50515580 39k R106/123 50515580 39k R106/123 50515580 39k R106/124 50515500 12k R108/125 50515310 560 R109/126 50515500 33k R110/127 50515350 1.2k R111/128 50515250 180 R111/128 50515250 180 R111/128 50515250 15k R111/128 50515510 15k R115/129 50515400 10k R113/130 50515406 5.6k R114/131 50515510 15k R115/132 50515350 1.2k R115/132 50515350 1.2k R115/132 50515350 1.2k R115/132 50515350 1.2k R115/132 50515300 17k R115/132 50515510 15k R115/132 50515500 17k R115/132 50515500 17k R115/132 50515500 17k R115/134 50515500 470 R136/142 50515700 270k R136/142 50515500 270k R136/142 50515500 12k R138/144 50515500 10k R138/144 50515500 10k R138/144 50515500 10k R138/144 50515500 10k R148/147 50515400 10k R148 50515300 12k R149/147 50515400 10k R148 50515300 12k R149/147 50515400 10k R141/147 50515400 10k R148 50515350 1.2k  TRIMMER RESISTOR  VR101/102 50533460 4.7k\alpha B 10\delta CAPACITORS  ALL CAPACITORS  ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 elec. 47 6.3V C103/113 5054820 Mylar 0.001 50V C104/144 50554050 elec. 10 16V C105/115 50554170 Elec. 100 25V C106/116 50554230 Elec. 100 6.3V C106/118 50554330 High Q 22 50V C106/118 50554330 High Q 25 50V C106/118 50554300 Elec. 10 0 55V C106/118 50554300 Elec. 10 0 55V C106/118 50554300 Elec. 10 0 55V	Q2077 200				
1/4 MATTS UNLESS OTHERWISE NOTED.	ATT. PERT		-		
R103/120 50515340 1k R104/121 50515610 56k R104/121 50515501 56k R104/122 50515590 47k R106/123 50515500 12k R107/124 50515500 12k R107/124 50515500 12k R107/125 50515310 560 R109/126 50515570 33k R107/126 50515570 33k R111/128 50515250 1e0 R111/128 50515250 1e0 R111/128 50515250 1c2k R111/130 5051540 5.6k R114/131 50515510 15k R114/131 50515510 15k R115/132 50515570 860k (A-3300-10,12 only) 50515770 860k (A-3300-11 only) R117/134 5051540 3.3k 5% (A-3300-10,12 only) 50515750 50515300 470 R137/143 5051540 3.3k 5% (A-3300-11 only) R137/144 50515500 1k 5% (A-3300-11 only) R137/144 50515500 47c R137/143 50515500 47c R137/144 50515500 12k R138/144 50515500 12k R140/146 50515500 12k R140/146 50515500 12k R141/147 5051540 1.2k  TRIMMER RESISTOR  VR101/102 50533460 4.7kg B 10¢ CAPACITORS  ALL CAPACITORS IN MICRO FARADS UNLESS OTHERNIES NOTED.  TRIMMER SESSIOR  VR101/102 50534360 4.7kg B 10¢ CAPACITORS  ALL CAPACITORS IN MICRO FARADS UNLESS OTHERNIES NOTED.  TRIMMER SESSIOR  VR101/102 50554030 1c.2k  TRIMMER SO515300 1c.2k  TRIMMER SO554030 1c.2k  TRIMER SO554050 1c.2k				J.	
R103/120 50515610 56k R105/122 50515590 47k R106/123 50515590 47k R106/123 50515590 12k R108/125 50515310 560 R109/126 50515330 52k R109/126 50515330 1.2k R110/127 50515330 1.2k R111/128 50515250 180 R112/129 50515490 10k R113/130 50515460 5.6k R115/132 50515350 1.2k R116/133 50515570 820k (A-3300-10,12 only) 50515750 560k (A-3300-11 only) R17/144 5051530 1k 5% (A-3300-10,12 only) 50515750 560k (A-3300-11 only) R135 50515300 470 R137/143 5051560 68k R138/144 50515590 47k R139/145 50515280 330 R140/146 50515500 12k R141/147 50515490 10k R149/146 50515500 12k R141/147 50515490 10k R149/140 50515500 12k R141/147 50515490 10k R140/146 50515500 12k R141/147 50515490 10k R140/146 50515500 12k R141/147 50515490 10k R140/140 50554030 Elec. 47 6.3V C103/113 5054820 Mylar 0.001 50V C103/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C103/113 50554030 Elec. 10 16V C105/115 50554170 Elec. 100 25V C104/114 50554505 Elec. 100 16V C105/115 50554170 Elec. 100 25V C105/117 50543330 High Q 22p 50V C108/118 50543340 High Q 22p 50V C108/118 50543340 High Q 22p 50V C108/118 505543340 High Q 22p 50V C108/118 505543340 High Q 22p 50V C108/118 505543340 High Q 22p 50V C108/119 50554040 Elec. 100 25V					
R105/122 50515590 47k R106/123 50515580 39k R107/124 50515300 12k R108/125 50515310 560 R109/126 50515330 1.2k R110/127 50515330 1.2k R111/128 50515350 180 R112/129 50515490 10k R113/130 50515460 5.6k R114/131 50515510 15k R115/132 50515350 1.2k R116/133 50515370 820k (A-3300-10,12 only) 50515770 820k (A-3300-11 only) R117/134 50515410 3.3k 5% (A-3300-11 only) S0515300 470 R136/142 50515300 470 R137/143 50515400 68k R138/144 50515500 270k R137/143 50515600 68k R138/144 50515500 12k R138/144 50515500 12k R141/147 50554050 Elec. 47 6.3V R103/113 50548320 Mylar 0.001 50V R103/113 50548320 Mylar 0.001 50V R105/115 50554470 Elec. 100 25V R105/115 50554470 Elec. 100 6.3V R107/117 50543330 High Q 22p 50V R108/118 5054330 High Q 330p 50V R109/119 50554040 Elec. 10 25V					
R106/123 50515580 39k R107/124 50515500 12k R108/125 50515310 560 R109/126 50515570 33k R110/127 50515350 1.2k R111/128 50515250 180 R112/129 50515490 10k R113/130 50515460 5.6k R114/131 50515510 15k R115/132 50515510 12k R116/133 50515510 12k R116/133 50515570 820k (A-3300-10,12 only) 50515570 560k (A-3300-11 only) R117/134 5051540 3.3k 5% (A-3300-10,12 only) 50515570 560k (A-3300-11 only) R136/142 5051590 47k R136/142 5051590 47k R137/143 50515590 47k R137/143 50515590 47k R137/143 50515590 10k R138/144 50515590 12k R141/147 50515590 12k R141/147 50515590 10k R148 50515500 12k R141/147 50515490 10k R148 50515500 12k R141/147 50515490 10k R148 50515500 Elec. 47 6.3V UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Wylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 100 6.3V C106/116 50554230 Elec. 100 6.3V C106/116 50554230 Elec. 100 6.3V C107/117 50543330 High Q 22p 50V C109/119 50554340 Elec. 100 25V C109/119 50554340 Elec. 10 25V					
R108/125 50515310 560 R109/126 50515570 33k R110/127 50515350 1.2k R111/128 50515250 180 R112/129 50515490 10k R113/130 50515460 5.6k R114/131 50515510 15k R116/133 50515510 820k (A-3300-10,12 only) 50515750 560k (A-3300-11 only) F0515340 1k 5% (A-3300-10,12 only) 50515340 1k 5% (A-3300-11 only) F0515340 50515500 470 R136/142 50515500 270k R137/143 50515500 68k R138/144 50515590 47k R139/145 50515280 330 R140/146 50515500 12k R140/146 50515500 12k R141/147 50515490 10k R148 50515360 4.7kΩ B 10¢ CAPACITORS  ALL CAPACITORS  ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548505 Elec. 10 16V C105/115 5055470 Elec. 10 16V C105/115 5055470 Elec. 10 16V C106/116 50554330 High Q 22p 50V C106/116 50554330 High Q 22p 50V C109/119 50554040 Elec. 10 25V	· .				
R109/126 50515570 33k R110/127 50515350 1.2k R1111/128 50515250 180 R112/129 50515490 10k R112/129 50515510 15k R114/131 50515510 15k R115/132 50515550 1.2k R115/132 50515570 820k (A-3300-10,12 only) 5051575 560k (A-3300-11 only) R17/134 5051540 3.3k 5% (A-3300-10,12 only) 50515340 1k 5% (A-3300-11 only) R136/142 50515300 470 R136/142 50515300 470 R137/143 50515620 68k R138/144 50515590 47k R139/145 50515280 330 R140/146 50515500 12k R139/145 50515500 12k R141/147 50515500 12k R141/147 50515501 12k  TRIMMER RESISTOR  VR101/102 50533460 4.7kΩ B 10 6  CAPACITORS  ALL CAPACITORS IN MICRO FARADS  UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 100 6.3V C106/116 50554230 Elec. 100 6.3V C107/117 50543330 High Q 22p 50V C108/118 50543340 High Q 230 50V C109/119 50554340 Elec. 10 25V	*.				
R111/128 50515250 180 R112/129 50515490 10k R113/130 50515460 5.6k R114/131 50515510 15k R115/132 50515350 1.2k R115/133 50515770 820k (A-3300-10,12 only) 50515750 560k (A-3300-11 only) FR17/134 5051540 3.3k 5% (A-3300-10,12 only) 50515340 1k 5% (A-3300-11 only) FR136/132 50515300 470 R136/134 50515400 270k R137/143 50515620 68k R138/144 50515590 47k R139/145 50515280 330 R140/146 50515500 12k R141/147 50515400 10k R148 50515350 1.2k  TRIMMER RESISTOR VR101/102 50533460 4.7kn B 10¢ CAPACITORS  ALL CAPACITORS  ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C104/114 5055405 Elec. 10 16V C105/115 50554030 Elec. 10 16V C105/115 50554330 Elec. 10 06.3V C106/116 50554230 Elec. 100 6.3V C108/118 50543340 High Q 22p 50V C108/118 50543340 High Q 330p 50V C109/119 50554040 Elec. 10 25V					
R112/129 50515490 10k R113/130 50515460 5.6k R113/131 50515510 15k R115/132 50515350 1.2k R116/133 50515770 820k (A-3300-10,12 only) 50515750 560k (A-3300-11 only) R117/134 50515400 3.3k 5% (A-3300-10,12 only) 50515340 1k 5% (A-3300-11 only) R135 50515300 470 R136/142 50515700 270k R137/143 50515500 470 R136/144 50515590 47k R139/145 50515500 12k R139/145 50515500 12k R141/147 50515409 10k R148 50515500 12k R141/147 5051530 1.2k  TRIMMER RESISTOR  VR101/102 50533460 4.7k\alpha B 10\(\delta\)  CAPACITORS  ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 5055470 Elec. 10 06.3V C106/116 50554230 Elec. 10 06.3V C106/116 50554330 High Q 22p 50V C108/118 50543340 High Q 22p 50V C108/118 50543340 High Q 22p 50V C108/118 50543340 High Q 230p 50V C108/118 50543340 High Q 22p 50V C108/118 50543340 High Q 22p 50V C108/118 50543340 High Q 230p 50V C108/118 50543340 High Q 330p 50V C108/118 50543340 High Q 330p 50V C108/118 50543340 Elec. 10 25V					
R114/131 50515310 15k R115/132 50515350 1.2k R116/133 50515770 820k (A-3300-10,12 only) 50515750 560k (A-3300-11 only) R117/134 50515410 1.5% (A-3300-10,12 only) 50515340 1k 5% (A-3300-10,12 only) R135 50515340 1k 5% (A-3300-11 only) R136/142 50515700 270k R137/143 50515620 68k R138/144 50515590 47k R139/145 50515280 330 R140/146 50515500 12k R141/147 50515490 10k R148 50515350 1.2k  TRIMMER RESISTOR  VR101/102 50533460 4.7kΩ B 10¢  CAPACITORS  ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50546320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 100 25V C106/116 50554230 Elec. 100 6.3V C107/117 5054330 High Q 22p 50V C108/118 5054330 High Q 230p 50V C108/118 5054330 High Q 230p 50V C109/119 50554040 Elec. 10 25V	R112/129	50515490 10k			
R115/132 50515750 1.2k R116/133 50515770 560k (A-3300-10,12 only) 50515750 560k (A-3300-11 only) R117/134 50515340 1k 5% (A-3300-10,12 only) 50515340 1k 5% (A-3300-11 only) R135 50515300 470 R136/142 50515700 270k R137/143 50515620 68k R138/144 50515590 47k R139/145 50515280 330 R140/146 50515500 12k R141/147 50515490 10k R148 50515350 1.2k  TRIMMER RESISTOR  VR101/102 50533460 4.7kΩ B 10¢  CAPACITORS  ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16¢ C105/115 5055470 Elec. 10 16¢ C105/115 5055470 Elec. 10 06.3V C106/116 50554230 Elec. 10 06.3V C106/116 50554330 High Q 22p 50V C108/118 50543340 High Q 230p 50V C109/119 50554040 Elec. 10 25V			-		
S0515750   S60k (A-3300-11 only)	R115/132	50515350 1.2k			
R117/134 50515410 3.3k 5% (A-3300-10,12 only) 50515340 1k 5% (A-3300-11 only)  R135 50515300 470  R136/142 50515700 270k  R137/143 50515620 68k  R138/144 50515590 47k  R139/145 50515280 330  R140/146 50515500 12k  R141/147 50515490 10k  R148 50515350 1.2k  TRIMMER RESISTOR  VR101/102 50533460 4.7kΩ B 10¢  CAPACITORS  ALL CAPACITORS IN MICRO FARADS  UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V  C102/112 50554030 Elec. 47 6.3V  C103/113 50548320 Mylar 0.001 50V  C104/114 50554050 Elec. 10 16V  C105/115 50554170 Elec. 100 25V  C106/116 50554230 Elec. 100 6.3V  C107/117 50543340 High Q 22p 50V  C108/118 50543340 High Q 330p 50V  C109/119 50554040 Elec. 10 25V	K116/133				
R135	R117/134	50515410 3.3k 5% (A-3300-10,12 only)			
R137/143 50515620 68k R138/144 50515590 47k R139/145 50515280 330 R140/146 50515500 12k R141/147 50515300 10k R148 50515350 1.2k  TRIMMER RESISTOR  VR101/102 50533460 4.7kΩ B 10¢  CAPACITORS  ALL CAPACITORS IN MICRO FARADS  UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 100 25V C106/116 50554230 Elec. 100 6.3V C107/117 5054330 High Q 22p 50V C108/118 50543340 High Q 22p 50V C108/118 50543340 High Q 330p 50V C109/119 50554040 Elec. 10 25V	R1,35	,			
R138/144 50515590 47k R139/145 50515280 330 R140/146 50515500 12k R141/147 50515490 10k R148 50515350 1.2k  TRIMMER RESISTOR  VR101/102 50533460 4.7kΩ B 10¢  CAPACITORS  ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 10 0 25V C106/116 50554330 Elec. 100 6.3V C107/117 50543330 High Q 22p 50V C108/118 50543340 High Q 22p 50V C108/118 50543340 High Q 230p 50V C109/119 50554040 Elec. 10 25V	•				
R140/146 50515500 12k R141/147 50515490 10k R148 50515350 1.2k  TRIMMER RESISTOR  VR101/102 50533460 4.7kΩ B 10¢  CAPACITORS  ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 100 6.3V C106/116 50554230 Elec. 100 6.3V C107/117 50543330 High Q 22p 50V C108/118 50543340 High Q 330p 50V C109/119 50554040 Elec. 10 25V	R138/144	50515590 47k			
R141/147 50515490 10k R148 50515350 1.2k  TRIMMER RESISTOR  VR101/102 50533460 4.7kΩ B 10¢  CAPACITORS  ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 10 16V C106/116 50554230 Elec. 100 6.3V C107/117 50543330 High Q 22p 50V C108/118 5054340 High Q 330p 50V C109/119 50554040 Elec. 10 25V					
TRIMMER RESISTOR  VR101/102 50533460 4.7kΩ B 10¢  CAPACITORS  ALL CAPACITORS IN MICRO FARADS  UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V  C102/112 50554030 Elec. 47 6.3V  C103/113 50548320 Mylar 0.001 50V  C104/114 50554050 Elec. 10 16V  C105/115 50554170 Elec. 100 25V  C106/116 50554230 Elec. 100 6.3V  C107/117 50543330 High Q 22p 50V  C108/118 5054340 High Q 330p 50V  C109/119 50554040 Elec. 10 25V	R141/147	50515490 10k			
VR101/102 50533460 4.7kΩ B 10¢  CAPACITORS  ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 100 25V C106/116 50554230 Elec. 100 6.3V C107/117 50543330 High Q 22p 50V C108/118 5054340 High Q 330p 50V C109/119 50554040 Elec. 10 25V	R148	50515350 1.2k			
CAPACITORS  ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 100 25V C106/116 50554230 Elec. 100 6.3V C107/117 50543330 High Q 22p 50V C108/118 5054340 High Q 330p 50V C109/119 50554040 Elec. 10 25V		TRIMMER RESISTOR			
ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 100 25V C106/116 50554230 Elec. 100 6.3V C107/117 50543330 High Q 22p 50V C108/118 50543340 High Q 330p 50V C109/119 50554040 Elec. 10 25V	VR101/102	50533460 4.7kΩ B 10¢	ļ		
UNLESS OTHERWISE NOTED.  C101/111 50546010 Tantalum 10 10V C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 100 25V C106/116 50554230 Elec. 100 6.3V C107/117 50543330 High Q 22p 50V C108/118 5054340 High Q 330p 50V C109/119 50554040 Elec. 10 25V		CAPACITORS			
C102/112 50554030 Elec. 47 6.3V C103/113 50548320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 100 25V C106/116 50554230 Elec. 100 6.3V C107/117 50543330 High Q 22p 50V C108/118 50543340 High Q 330p 50V C109/119 50554040 Elec. 10 25V					
C103/113 50548320 Mylar 0.001 50V C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 100 25V C106/116 50554230 Elec. 100 6.3V C107/117 50543330 High Q 22p 50V C108/118 50543340 High Q 330p 50V C109/119 50554040 Elec. 10 25V					
C104/114 50554050 Elec. 10 16V C105/115 50554170 Elec. 100 25V C106/116 50554230 Elec. 100 6.3V C107/117 50543330 High Q 22p 50V C108/118 50543340 High Q 330p 50V C109/119 50554040 Elec. 10 25V					
C106/116 50554230 Elec. 100 6.3V C107/117 50543330 High Q 22p 50V C108/118 50543340 High Q 330p 50V C109/119 50554040 Elec. 10 25V	C104/114	50554050 Elec. 10 16V			
C107/117 50543330 High Q 22p 50V C108/118 50543340 High Q 330p 50V C109/119 50554040 Elec. 10 25V					
C109/119 50554040 Elec. 10 25V	C107/117	50543330 High Q 22p 50V			
	C110/120	50548420 Mylar 0.015 50V			
C121 50554170 Elec. 100 25V C122/126 50554050 Elec. 10 16V					
C123/127 50543400 High Q 100p 50V	C123/127	50543400 High Q 100p 50V			
C124/128 50554030 Elec. 47 6.3V C125/129 50554050 Elec. 10 16V					
C130 50554170 Elec. 100 25V C131/141 50548420 Mylar 0.015 50V	C130	50554170 Elec. 100 25V		e *	

# MIC AND PLAYBACK EQ.AMPLIFIER

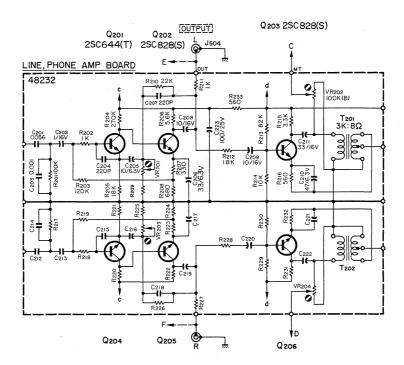


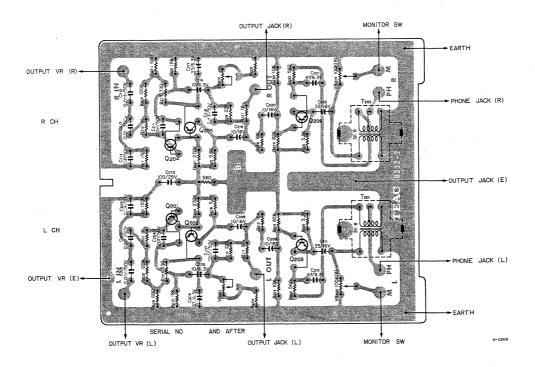


# LINE OUT AND PHONE AMPLIFIER

CIRCUIT REF.NO.	TEAC PARTS NO. DESCRIPTION	lst	2nd	3rd
	50505150 PC Board Assy (A-3300-10 only) 50489350 PC Board Assy (A-3300-11,12 only)			
	SILICON TRANSISTORS			
Q201/204 Q202/205 Q203/206				
	CARBON RESISTORS			
ALL RESIS 1/4 WATTS	TORS IN OHMS, 10% TOLERANCE, UNLESS OTHERWISE NOTED.			
R202/218 R203/219 R204/220 R205/221 R206/222 R207/223	50515460 5.6k 50515280 330			
R208/224 R209/225 R210/226 R211/227 R212/228 R213/229 R214/230	50515320 680 (A-3300-11,12 only) 50515540 22k 50515340 1k 50515520 18k 50515630 82k			
215/231	50515410 3.3k 50515310 560 50515310 560			
	TRIMMER RESISTORS			
	50533450 1.5kΩ B 10¢ (A-3300-10 only) 50533640 2.2kΩ B 10¢ (A-3300-11,12 only) 50533490 100kΩ B 10¢			
	CAPACITORS			
	TORS IN MICRO FARADS ERWISE NOTED.			
202/213 203/214 204/215 205/216 206/217 207/218	50548460 Mylar 0.056 50V 50557030 Elec. 1 16V 50548320 Mylar 0.001 150V 50543420 High Q 220p 50V 50554250 Elec. 10 6.3V 50554240 Elec. 33 6.3V 50543420 High Q 220p 50V			
209/220 210/221 211/222	50554050 Elec. 10 16V 50554050 Elec. 10 16V 50554030 Elec. 47 6.3V 50554260 Elec. 33 16V 50554170 Elec. 100 25V			
	TRANSFORMER		-	
201/202	50562140 Transformer, Output 3kΩ:8Ω			

#### LINE OUT AND PHONE AMPLIFIER

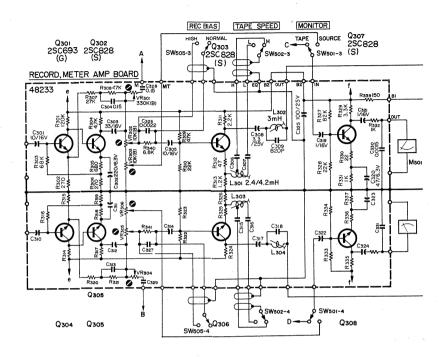


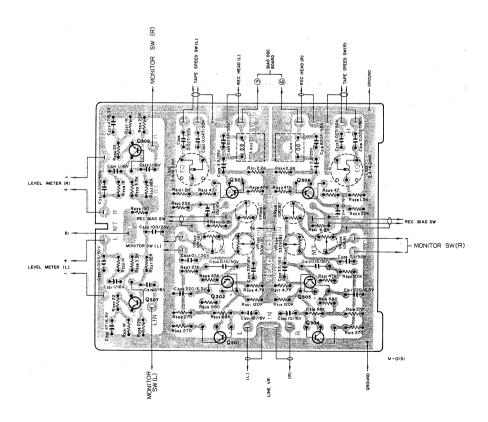


# METER AND REC.EQ.AMPLIFIER

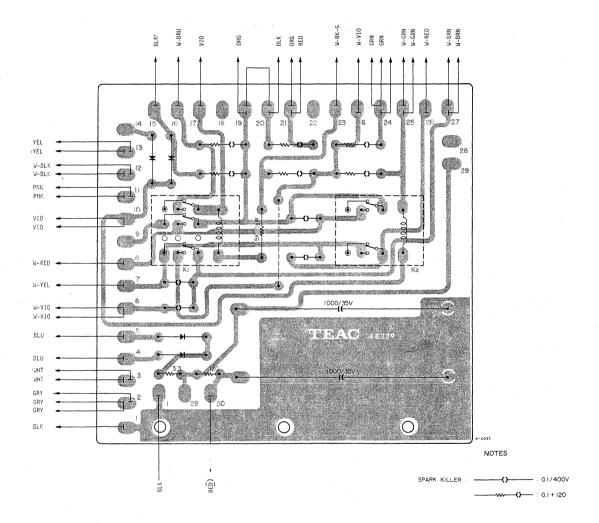
REF.NO.	TEAC PARTS NO.	DESCRIPTION	lst	2nd	3rd
	50505210 50505240	PC Board Assy (A-3300-10,12 onl PC Board Assy (A-3300-11 only)	Ly)		
	SILICON T	RANSISTORS			·
Q301/304	50423870	2SC693-G (or 2SC369-BL)			
Q302/305	50424220	2SC828-S (or 2SC372-Y)	-		
Q303/306 Q307/308	50424220 50424220	2SC828-S (or 2SC372-Y) 2SC828-S (or 2SC372-Y)			
	CARBON RE	SISTORS			
		M, 10% TOLERANCE ERWISE NOTED.			
R301/314	50515650	120k			
R302/315	50515030	270			
R303/316	50515620	68k			
R304/317	50515460	4.7k			
R305/318	50515320	680			·
R306/319	50515270	270			
R307/320	50515540	22k			
R308/321 R309/322	50515590 50515590	47k 47k			100
R310/323	50515540	22k			
R311/324	50515340	2.2k			
R312/325	50515170	47			
R313/326	50515350	1.2k			
R327/333	50515630	82k			
R328/334		22k			
R329/335	50515410	3.3k			
R330/336 R331/337	50515170 50515340	47 1k			
R332/338	50515340	1k			
R339	50515240	150			
R340·341	50515490	6.8k		-	
	TRIMMER R	ESISTORS			
VR301/304	50533670	330kΩ B 10ø			
VR302/305	50533480	10kΩ B 10¢			
VR303/306	50533480	10kΩ B 10¢			
	CAPACITOR	as a second			
455 04540	TEADS THE	ATODO HADADO			
	ITORS IN M HERWISE NC	MICRO FARADS TED.			
C301/310	50554050	Elec. 10 16V			
C302/311	50554330	Elec. 220 6.3V			
C303/312	50554260	Elec. 33 16V			
C304/313	50548310	Mylar 0.15 50V (A-3300-10,12	only)		
	50549550	Mylar 0.22 50V (A-3300-11 on)	Ly)	,	
C305/314	50554050	Elec. 10 16V	(\		
C306/315	50549460 50548330	Mylar 0.01 50V (A-3300-11 onl Mylar 0.027 50V(A-3300-10,12			
C307/316	50548290	Mylar 0.022 50V(A-3300-10,12			
-30,7340	50548270	Mylar 0.047 50V(A-3300-10,12			
C308/317	50554220	Elec. 3.3 25V			
C309/318	50543440	Polyst. 820p 50V			
C319/322	50557030	Elec. 1 16V			
C320/323	50554030	Elec. 47 6.3V			
C321/324	50557030 50554170	Elec. 1 16V Elec. 100 25V			
C325					
C325 C328/329	50548040	Mylar 0.1 50V			

# METER AND REC.EQ.AMPLIFIER

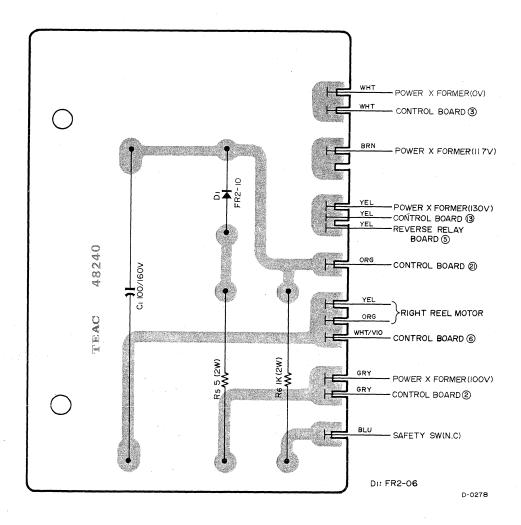




# CONTROL RELAY

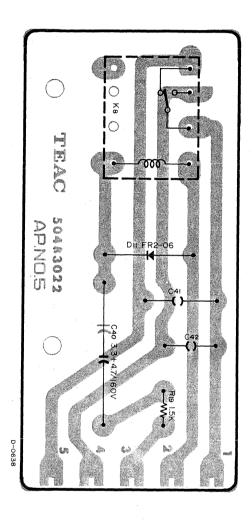


#### RECTIFIER



CIRCUIT REF.NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
	50500500	PC Board Assy			
D1 C1 R5 R6	50555250 50526030	Diode FR2-10 Cap., Elec. $100\mu F$ $160V$ Resistor, Wire Wound $5\Omega$ 2W Resistor, Carbon $1k\Omega$ 2W Angle, PC Board, B			

# START MOTOR



CIRCUIT	TEAC				
REF.NO.	PARTS NO.	DESCRIPTION	1st	2nd	3rd
	50489970	PC Board Assy (A-3300-10,A-3340)			
K8	50610750				
R19	50574860				
D11	50422360	Diode, Silicon FR2-06			
C40	50555350	Cap., Elec. 4.7µF 160V			
	50555360	Cap., Elec. 3.3µF 160V			
C41·42	50548390	Cap., Mylar 0.1µF 400V			
	50330230	Angle, PC Board			

# EXPLODED VIEW AND PARTS LIST

A-3340

#### REPLACEMENT INFORMATION

Replacement parts are available through your nearest TEAC dealer or directly from the TEAC office.

Changes are constantly being made to make TEAC products better and more reliable.

Therefore, when ordering parts, always include the following information:

MODEL

SERIAL NO.

REF.NO.

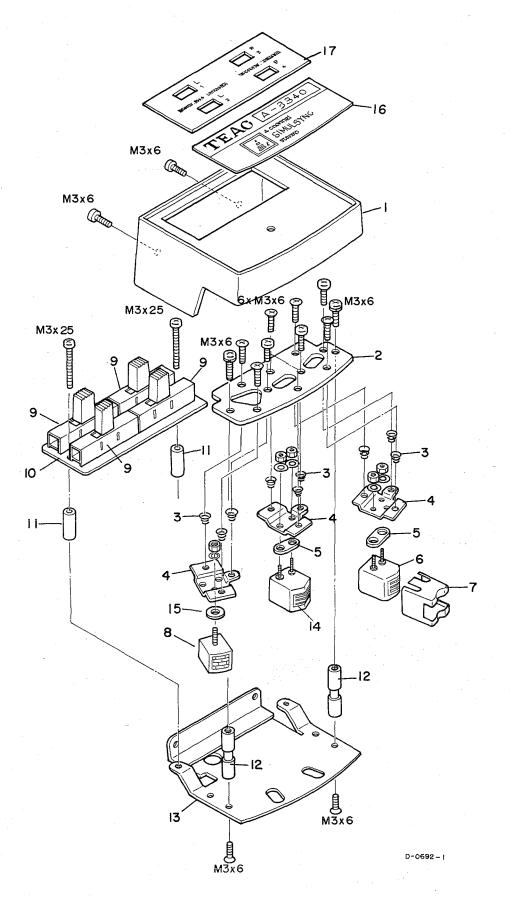
PARTS NO.

**DESCRIPTION** 

-NOTE-

Since the basic design of the A-3340 is highly similar to that of the A-3300 (except for Head Assy and Preamplifier Chassis Section in this exploded view), please refer to diagrams of the A-3300.

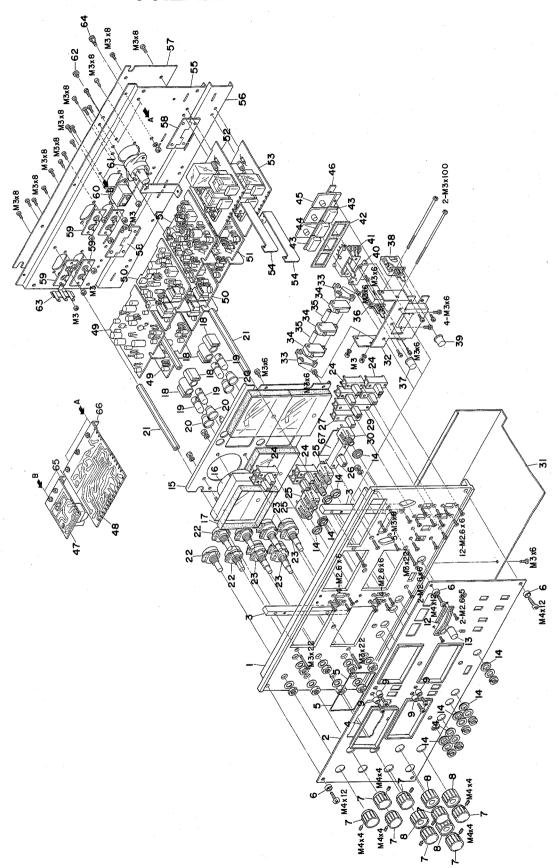
# HEAD ASSY



#### HEAD ASSY

REF.	TEAC				
NO.	PARTS NO.	DESCRIPTION	1st	2nd	3rd
	50136380	Head Assy			
1- 1	50136290	Head Housing			
1- 2	50134400	Plate, Head Mount Base		*	
1- 3	50220500	Spring, Head		·	
1- 4	50134370	Plate, Head			
1- 5	50134390	Spacer, Record Head			
1- 6	50664810	Head, Playback			
1- 7	50675650	Shield Case, A (Front)			
1- 8	50664110	Head, Erase			
1- 9	50444480	Switch, Slide			
1-10	50483140	PC Board, Simul-Sync		'	
1-11	50136310	Stand-off, Slide Switch			
	50182672	Tape Guide			
		Plate, Housing Base			
1-14	50664210	Head, Record			

# PREAMPLIFIER CHASSIS



#### PREAMPLIFIER CHASSIS

No.   PARTS NO.   DESCRIPTION   1st   2nd   3rd	REF.	TEAC				
2-2 50236310 Trim Panel, Amp 2-3 50236420 VU Meter Retainer 2-5 50236510 Escutcheon, VU Meter 2-5 50236510 Escutcheon 3-6 5027111 Washer, Trim 2-7 50253390 Knob, Uower 2-9 50236430 Escutcheon, Record Lamp 2-12 50449900 Cover, Lever Switch 2-13 50253470 Knob, Control SW, D 2-14 50272620 Washer, Insulator 2-15 50236340 Plate, VU Meter 2-16 50581380 VU Meter 2-17 50939116 VU Meter 2-18 5045253 VU Meter 2-19 50414510 Lamp, Record Emp 2-12 5043649 Stand-off, Amp Chassis 2-22 50535140 Potentiometer, Single 10kΩ 2-23 50535140 Potentiometer, Dual (Outer Shaft 100kΩ, Inner 10kΩ) 2-24 5044000 Switch, Slide 2-25 50444470 Switch, Slide 2-27 50444460 Switch, Slide 2-29 50444460 Switch, Slide 2-30 50432450 Jack, Phone, Single 2-31 50238190 Cover, Record Switch, Slide 2-31 50238190 Cover, South Switch, Slide 2-32 5027782 Plate, Control Base 2-33 50277540 Spacer, Control Sw, A 2-34 5044000 Switch, Slide 2-35 50432450 Jack, Phone, 3 cond 2-35 50432450 Jack, Phone, 3 cond 2-31 50288190 Cover, Bottom 2-32 50277782 Plate, Control Base 2-33 50277540 Spacer, Control Sw, A 2-34 50446090 Switch, Nicro 2-35 50443210 Switch, Push (Non Lock) 2-37 50253120 Push Button, B (Red) 2-38 50443210 Switch, Push Push (Non Lock) 2-39 50253120 Push Button, B (Red) 2-39 50253120 Push Button, B (Red) 2-40 50277711 Plate, Lever Switch 2-41 50442350 Switch, Rotary (Lever Type) 2-42 50253110 Push Button, Operate 2-43 50253210 Push Button, Stop 2-44 50253210 Push Button, Stop 2-45 50253210 Push Button, Stop 2-46 50277010 Rubber Protector 2-49 50490290 PC Board Assy, Bias Oscillator 2-46 50277010 Push Button, Stop 2-47 50490290 PC Board Assy, Control Relay 2-49 50490200 PC Board Assy, Sias Oscillator 2-48 50490200 PC Board Assy, Control Relay 2-49 50490200 PC Board Assy, Control Relay 2-49 50490200 PC Board Assy, Control Relay	NO.	PARTS NO.	DESCRIPTION	lst	2nd	3rd
2-2 50236310 Trim Panel, Amp 2-3 50236420 VU Meter Retainer 2-5 50236510 Escutcheon, VU Meter 2-5 50236510 Escutcheon 3-6 5027111 Washer, Trim 2-7 50253390 Knob, Uower 2-9 50236430 Escutcheon, Record Lamp 2-12 50449900 Cover, Lever Switch 2-13 50253470 Knob, Control SW, D 2-14 50272620 Washer, Insulator 2-15 50236340 Plate, VU Meter 2-16 50581380 VU Meter 2-17 50939116 VU Meter 2-18 5045253 VU Meter 2-19 50414510 Lamp, Record Lamp 2-12 5043690 Stand-off, Amp Chassis 2-12 50335140 Potentiometer, Single 10kΩ 2-12 5033540 Potentiometer, Dual (Outer Shaft 100kΩ, Inner 10kΩ) 3-2-2 5044000 Switch, Slide 2-25 5044000 Switch, Slide 3-2-2 50444460 Switch, Slide 3-2-2 50444460 Switch, Slide 3-3 50243245 Jack, Phone, 3 cond 3-3 5027754 Spacer, Control Base 3-3 50277782 Plate, Control Base 3-3 5027782 Plate, Control Base 3-3 5027782 Plate, Control Base 3-3 5027782 Plate, Control Base 3-3 5024110 Sae Plate Holder 3-3 5043210 Switch, Blide 3-3 5043210 Switch, Push (Non Lock) 3-3 5025110 Plate, Control Base 3-3 5027754 Spacer, Control SW, A 3-4 5044000 Switch, Push (Non Lock) 3-3 5025110 Push Button, B (Red) 3-3 50253110 Push Button, B (Red) 3-3 50253110 Push Button, B (Red) 3-3 50253110 Push Button, Deprate 3-4 50490290 PC Board Assy, Blas Oscillator 3-4 50490200 PC Board Assy, Midero Base 3-4 50490200 PC Board Assy, Control Relay 3-4 50490200 PC Board Assy, Suitand Playback EQ Amp	0 1	E0226220	Day of Busine			
2- 3 50236420 VU Meter Retainer 2- 4 50236500 Escutcheon, VU Meter 2- 5 50236510 Clamp, Meter Escutcheon 2- 6 50277111 Washer, Trim 2- 7 5023390 Knob, Upper 2- 8 5023390 Knob, Uower 2- 9 50236430 Escutcheon, Record Lamp 2- 12 50449900 Cover, Lever Switch 2-13 50253470 Knob, Control SW, D 2-14 50272620 Washer, Insulator 2-15 50236340 Plate, VU Meter 2-16 50581380 VU Meter 2-17 50939110 VU Meter Band 2-18 50415250 Socket, Record Lamp 2-19 5044510 Lamp, Record SW 2-20 50419070 Cover, Record Lamp 2-21 50236490 Stand-off, Amp Chassis 2-22 50535140 Potentiometer, Single 10kΩ 2-23 50535150 Potentiometer, Single 10kΩ 2-24 50440000 Switch, Slide 2-25 504404470 Switch, Slide 2-26 50444470 Switch, Slide 2-27 50444450 Switch, Slide 2-29 50444460 Switch, Slide 2-30 50432450 Jack, Phone, 3 cond 2-31 50288190 Gover, Bottom 2-33 50277540 Spacer, Control SW, A 2-34 50446094 Switch, Micro 2-35 5043010 Switch, Micro 2-36 50443410 Switch, Micro 2-37 5023130 Push Button, B (Red) 2-38 50443210 Switch, Push 2-38 50443210 Switch, Slide 2-39 50423130 Push Button, B (Red) 2-39 50251120 Push Button, A (Black) 2-40 50277711 Plate, Lever Switch 2-41 50442300 Push Button, Derate 2-44 50253200 Push Button, Stop 2-45 50490290 PC Board Assy, Mian Socillator 2-46 50477010 Ruber Protector 2-48 50490290 PC Board Assy, Suan Socillator 2-47 50490290 PC Board Assy, Mian Gulffill First Push Control Relay 2-49 50490270 PC Board Assy, Suan Socillator 2-49 50490270 PC Board Assy, Control Relay						
2-4 50236500 Escutcheon, VU Meter 2-5 50236510 Clamp, Meter Escutcheon 2-6 50277111 Washer, Trim 2-7 50253390 Knob, Upper 2-8 50236400 Knob, Lower 2-9 50236430 Escutcheon, Record Lamp 2-12 50449900 Cover, Lever Switch 2-13 50233470 Knob, Control SW, D 2-14 50272620 Washer, Insulator 2-15 50236340 VWeter 2-16 50581380 VU Meter 2-17 50939110 VU Meter Band 2-18 50415250 Socket, Record Lamp 2-19 50414510 Lamp, Record Bap 2-21 50236490 Scand-off, Amp Chassis 2-20 50449070 Cover, Record Lamp 2-21 50236490 Scand-off, Amp Chassis 2-22 50535140 Potentiometer, Single 10kΩ 2-23 50535150 Potentiometer, Single 10kΩ 2-24 5044000 Switch, Slide 2-25 50430240 Jack, Phone, Single 2-26 50444470 Switch, Slide 2-27 50444460 Switch, Slide 2-29 50444460 Switch, Slide 2-29 50444460 Switch, Slide 2-21 50232450 Jack, Phone, 3 cond 2-31 50288190 Cover, Bottom 2-31 50288190 Cover, Bottom 2-32 5027782 Plate, Control SW, A 2-33 50277540 Spacer, Control SW, A 2-34 50446090 Switch, Micro 2-35 50443210 Switch, Push (Non Lock) 2-36 50443410 Switch, Push (Non Lock) 2-37 50253110 Push Button, B (Red) 2-38 50443210 Switch, Push (Non Lock) 2-39 50253110 Push Button, B (Red) 2-39 50253110 Push Button, B (Red) 2-40 50277717 Plate, Lever Switch 2-41 5044230 Push Button, Stop 2-43 50253111 Push Button, Derate 2-44 50253200 Push Button, Stop 2-45 50253111 Push Button, Stop 2-46 50277710 Plate 2-47 50490290 P C Board Assy, Bias Oscillator 2-48 50490230 P C Board Assy, Control Relay 2-49 50490270 P C Board Assy, Control Relay						
2-5 50236510 Clamp, Meter Escutcheon 2-6 50277111 Washer, Trim 2-7 50253390 Knob, Upper 2-8 50253400 Knob, Lower 2-9 50236430 Escutcheon, Record Lamp 2-12 50449900 Cover, Lever Switch 2-13 50253470 Knob, Control SW, D 2-14 50272620 Washer, Insulator 2-15 50236340 Plate, VU Meter 2-16 50581380 VU Meter 2-17 50939110 VU Meter Band 2-18 50415250 Socket, Record Lamp 2-19 50414510 Lamp, Record 8V 2-20 50419070 Cover, Record Lamp 2-12 50236490 Stand-off, Amp Chassis 2-22 50535140 Potentiometer, Single 10kΩ 2-23 50535150 Potentiometer, Dual (Outer Shaft 100kΩ, Inner 10kΩ) 2-24 50440000 Switch, Slide 2-25 50444470 Switch, Slide 2-27 50444460 Switch, Slide 2-29 50444460 Switch, Slide 2-30 50432450 Jack, Phone, Single 2-21 50237782 Plate, Control Base 2-33 50277784 Spacer, Control SW, A 3-34 50446090 Switch, Micro 2-35 50241120 Base Plate Holder 2-36 50443210 Switch, Push (Non Lock) 2-37 50253130 Push Button, B (Red) 2-38 5043210 Switch, Rotary (Lever Type) 2-45 50253110 Push Button, B (Red) 2-40 5027771 Plate, Lever Switch 2-41 50442350 Switch, Rotary (Lever Type) 2-42 50253110 Push Button, Stop 2-45 50253110 Push Button, Stop 2-46 50277110 Plate 2-47 50490290 PC Board Assy, Bias Oscillator 2-48 50490230 PC Board Assy, Control Relay 2-49 50490270 PC Board Assy, Mic and Playback EQ Amp						
2-6 50277111 Washer, Trim 2-7 50253390 Knob, Upper 2-8 50253400 Knob, Lower 2-9 50236430 Escutcheon, Record Lamp 2-12 50449900 Cover, Lever Switch 2-13 50253470 Knob, Control SW, D 2-14 50272620 Washer, Insulator 2-15 50236340 Plate, VU Meter 2-16 50581380 VU Meter 2-17 50939110 VU Meter Band 2-18 50415250 Socket, Record Lamp 2-19 50416510 Lamp, Record 8V 2-20 50419070 Cover, Record Lamp 2-21 50236490 Stand-off, Amp Chassis 2-22 50535140 Potentiometer, Single 10kΩ 2-23 50535150 Potentiometer, Dual (Outer Shaft 100kΩ, Inner 10kΩ) 2-24 5044000 Switch, Slide 2-25 50430240 Jack, Phone, Single 2-26 504444460 Switch, Slide 2-29 50444460 Switch, Slide 2-29 50444460 Switch, Slide 2-30 50432450 Jack, Phone, Sond 2-31 50288190 Cover, Rectom 2-32 50277782 Plate, Control Base 2-33 502777540 Spacer, Control SW, A 2-34 50446090 Switch, Micro 2-35 50241120 Base Plate Holder 2-36 50443410 Switch, Push 2-37 50253130 Push Button, B (Red) 2-38 50443410 Switch, Push 2-39 50253120 Push Button, A (Black) 2-40 50277771 Plate, Lever Switch 2-41 50442350 Switch, Rotary (Lever Type) 2-45 50253113 Push Button, Stop 2-45 50253110 Push Button, Stop 2-46 50277106 Rubber Protector 2-43 50253110 Push Button, Stop 2-45 50253110 Push Button, Stop 2-46 50277010 Plate 2-47 50490290 PC Board Assy, Bias Oscillator 2-48 50490230 PC Board Assy, Single Solution Mic and Playback EQ Amp						
2-7 50253390 Knob, Upper 2-8 50253400 Knob, Lower 2-9 50236430 Escutcheon, Record Lamp 2-12 50449900 Cover, Lever Switch 2-13 50253470 Knob, Control SW, D 2-14 50272620 Washer, Insulator 2-15 50236340 Plate, VU Meter 2-16 50831380 VU Meter 2-17 50939110 VU Meter Band 2-18 5041250 Socket, Record Lamp 2-19 50414510 Lamp, Record 8V 2-20 50419070 Cover, Record Lamp 2-21 50236490 Stand-off, Amp Chassis 2-22 50535140 Potentiometer, Single 10kΩ 2-23 50535150 Potentiometer, Dual (Outer Shaft 100kΩ, Inner 10kΩ) 2-24 50440000 Switch, Slide 2-25 50430240 Jack, Phone, Single 2-25 50444450 Switch, Slide 2-27 50444460 Switch, Slide 2-30 50432450 Jack, Phone, 3 cond 2-31 50288190 Cover, Bottom 2-32 50277782 Plate, Control Base 2-33 50277540 Spacer, Control SW, A 3-45 5044090 Switch, Micro 2-35 50241120 Base Plate Holder 2-36 50443410 Switch, Push (Non Lock) 2-37 50253130 Push Button, B (Red) 2-38 50443210 Switch, Push (Non Lock) 2-39 50253120 Push Button, A (Black) 2-40 50277716 Plate, Lever Switch 2-41 50442350 Switch, Rotary (Lever Type) 2-42 50277160 Plate 2-45 50253110 Push Button, Stop 2-46 50277110 Plate 2-47 50490290 PC Board Assy, Bias Oscillator 2-48 50490230 PC Board Assy, Sias Oscillator 2-48 50490230 PC Board Assy, Control Relay 2-49 50490270 PC Board Assy, Mic and Playback EQ Amp						
2-8 50253400 Knob, Lower 2-9 50236430 Escutcheon, Record Lamp 2-12 50449900 Cover, Lever Switch 2-13 50253470 Knob, Control SW, D 2-14 50272620 Washer, Insulator 2-15 50236340 Plate, VU Meter 2-16 50581380 VU Meter 2-17 50939110 VU Meter Band 2-18 50415250 Socket, Record Lamp 2-19 50414510 Lamp, Record 8V 2-20 50419070 Cover, Record Lamp 2-21 50236490 Stand-off, Amp Chassis 2-22 50535140 Potentiometer, Single 10kΩ 2-23 5035150 Potentiometer, Dual (Outer Shaft 100kΩ, Inner 10kΩ) 3-2-25 50440400 Switch, Slide 2-26 504444470 Switch, Slide 2-27 50444460 Switch, Slide 2-29 50444460 Switch, Slide 2-30 50432450 Jack, Phone, 3 cond 2-31 50288190 Cover, Bottom 2-32 50277782 Plate, Control SW, A 2-34 50446090 Switch, Micro 2-35 50241120 Base Plate Holder 2-36 50443410 Switch, Micro 2-37 50243120 Push Button, B (Red) 2-38 50443210 Switch, Push 2-39 50253120 Push Button, A (Black) 2-40 50277771 Plate, Lever Switch 2-41 50442350 Switch, Rotary (Lever Type) 2-45 50253113 Push Button, Scop 2-45 50253113 Push Button Base 2-46 50277010 Plate 2-47 50490290 PC Board Assy, Bias Oscillator 2-48 50490230 PC Board Assy, Sias Oscillator 2-48 50490230 PC Board Assy, Sias Oscillator 2-48 50490230 PC Board Assy, Mic and Playback EQ Amp						
2-9 50236430 Escutcheon, Record Lamp 2-12 50449900 Cover, Lever Switch Xnob, Control SW, D Xasher, Insulator 2-15 50236340 Plate, VU Meter 2-16 50381380 VU Meter 2-17 50939110 VI Meter Band 2-18 50415250 Socket, Record Lamp 2-19 50414510 Lamp, Record 8V 2-20 50419070 Cover, Record Lamp 2-21 50236490 Stand-off, Amp Chassis 2-22 50535140 Potentiometer, Single 10kΩ 2-23 50535150 Potentiometer, Dual (Outer Shaft 100kΩ, Inner 10kΩ) 2-24 50440000 Switch, Slide 2-25 50430240 Jack, Phone, Single 2-26 50444440 Switch, Slide 2-27 50444450 Switch, Slide 2-29 50444460 Switch, Slide 2-30 50432450 Jack, Phone, 3 cond 2-31 50288190 Cover, Bottom 2-32 50277782 Plate, Control Base 2-33 502777840 Switch, Micro 2-35 50241120 Base Plate Holder 2-36 50443010 Switch, Push (Non Lock) 2-37 50253130 Push Button, B (Red) 3-38 50443210 Switch, Push 2-39 50253120 Push Button, A (Black) 2-40 50277771 Plate, Lever Switch 2-41 50442350 Switch, Rotary (Lever Type) 2-42 50277160 Rubber Protector 2-43 50253210 Push Button, Stop 2-45 50253110 Push Button, Stop 2-45 50490230 PC Board Assy, Bias Oscillator 2-47 50490290 PC Board Assy, Control Relay 2-49 50490270 PC Board Assy, Control Relay 2-49 50490270 PC Board Assy, Mic and Playback EQ Amp						
2-12 50449900 Cover, Lever Switch 2-13 50253470 Knob, Control SW, D Washer, Insulator 2-16 50236340 Plate, VU Meter 2-16 50581380 VU Meter 2-17 50939110 VU Meter Band 2-18 50415250 Socket, Record Lamp 2-18 5041510 Socket, Record Lamp 2-20 50419070 Cover, Record Lamp 2-21 50236490 Stand-off, Amp Chassis 2-22 50535140 Potentiometer, Single 10kΩ 2-23 50535150 Potentiometer, Dual (Outer Shaft 100kR, Inner 10kΩ) 2-24 5044000 Switch, Slide 2-25 50430240 Jack, Phone, Single 2-26 50444470 Switch, Slide 2-27 50444450 Switch, Slide 2-29 50444460 Switch, Slide 2-30 50432450 Jack, Phone, 3 cond 2-31 50288190 Cover, Bottom 2-32 50277782 Plate, Control Base 2-33 50277782 Plate, Control Base 2-33 50277780 Spacer, Control SW, A 2-34 5044690 Switch, Micro 2-35 50443210 Base Plate Holder 2-36 50443410 Switch, Push (Non Lock) 2-37 50253130 Push Button, B (Red) 2-38 50443210 Switch, Push 2-39 50253120 Push Button, A (Black) 2-40 502777710 Rubber Protector 2-43 50253210 Push Button, A (Black) 2-45 50253110 Push Button, Stop 2-45 50490230 PC Board Assy, Bias Oscillator 2-48 50490230 PC Board Assy, Control Relay PC Board Assy, Mic and Playback EQ Amp					·	
2-13 50253470 Knob, Control SW, D 2-14 50272620 Washer, Insulator Plate, VU Meter 2-16 50581380 VU Meter 2-17 50939110 VU Meter Band 2-18 50415250 Socket, Record Lamp 2-19 50414510 Lamp, Record 8V 2-20 50419070 Cover, Record Lamp 2-21 50236490 Stand-off, Amp Chassis 2-22 50535140 Potentiometer, Single 10kΩ 2-23 50535150 Potentiometer, Dual (Outer Shaft 100kΩ, Inner 10kΩ) 2-24 50440000 Switch, Slide 2-25 50444470 Switch, Slide 2-25 50444460 Switch, Slide 2-27 50444460 Switch, Slide 2-29 50444460 Switch, Slide 2-30 5043240 Jack, Phone, 3 cond 2-31 50288190 Cover, Bottom 2-32 50277782 Plate, Control Base 2-33 50277540 Spacer, Control SW, A 2-34 50446090 Switch, Micro 2-35 50241120 Base Plate Holder 2-36 50443410 Switch, Push (Non Lock) 2-37 50253130 Push Button, B (Red) 2-38 50443210 Switch, Push 2-39 50253120 Push Button, A (Black) 2-40 50277771 Plate, Lever Switch 2-41 5042350 Push Button, Operate 2-45 50253110 Push Button, Operate 2-46 50277010 Plate 2-76 50490290 PC Board Assy, Bias Oscillator 2-86 50490230 PC Board Assy, Bias Oscillator 2-87 50490290 PC Board Assy, Mic and Playback EQ Amp			<del>-</del>			
2-14 5027620 Washer, Insulator 2-15 50236340 Plate, VU Meter 2-16 50581380 VU Meter 2-17 50939110 VU Meter Band 2-18 50415250 Socket, Record Lamp 2-19 50414510 Lamp, Record 8V 2-20 50419070 Cover, Record Lamp 2-21 50236490 Stand-off, Amp Chassis 2-22 50535140 Potentiometer, Dual (Outer Shaft 100kΩ, Inner 10kΩ) 2-23 50535150 Potentiometer, Dual (Outer Shaft 100kΩ, Inner 10kΩ) 2-24 50440400 Switch, Slide 2-25 50430240 Jack, Phone, Single 2-26 50444440 Switch, Slide 2-27 50444450 Switch, Slide 2-29 50444460 Switch, Slide 2-30 50432450 Jack, Phone, 3 cond 2-31 50288190 Cover, Bottom 2-32 50277782 Plate, Control Base 2-33 50277540 Spacer, Control SW, A 2-34 50446090 Switch, Micro 2-35 50241120 Base Plate Holder 2-36 50443210 Switch, Push (Non Lock) 2-37 50253130 Push Button, B (Red) 2-38 50443210 Switch, Push (Non Lock) 2-39 50253120 Push Button, B (Red) 2-40 50277771 Plate, Lever Switch 2-41 50442350 Switch, Rotary (Lever Type) 2-42 50277160 Rubber Protector 2-43 50253210 Push Button, Operate 2-44 50253200 Push Button, Stop 2-45 50253113 Push Button Base 2-46 50277010 Plate 2-47 50490290 PC Board Assy, Bias Oscillator 2-48 50490230 PC Board Assy, Bias Oscillator 2-48 50490230 PC Board Assy, Mic and Playback EQ Amp						-
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2-44 50253200 Push Button, Stop 2-45 50253113 Push Button Base 2-46 50277010 Plate 2-47 50490290 PC Board Assy, Bias Oscillator 2-48 50490230 PC Board Assy, Control Relay 2-49 50490270 PC Board Assy, Mic and Playback EQ Amp						
2-45 50253113 Push Button Base 2-46 50277010 Plate 2-47 50490290 PC Board Assy, Bias Oscillator 2-48 50490230 PC Board Assy, Control Relay 2-49 50490270 PC Board Assy, Mic and Playback EQ Amp			· -			
2-46 50277010 Plate 2-47 50490290 PC Board Assy, Bias Oscillator 2-48 50490230 PC Board Assy, Control Relay 2-49 50490270 PC Board Assy, Mic and Playback EQ Amp			· =			
2-47 50490290 PC Board Assy, Bias Oscillator 2-48 50490230 PC Board Assy, Control Relay 2-49 50490270 PC Board Assy, Mic and Playback EQ Amp						
2-48 50490230 PC Board Assy, Control Relay 2-49 50490270 PC Board Assy, Mic and Playback EQ Amp						
2-49 50490270 PC Board Assy, Mic and Playback EQ Amp			* ·			]
Mic and Playback EQ Amp						
	_ ,,,				•	
	2-50	50490180				

#### PREAMPLIFIER CHASSIS (CONTINUED)

REF.	TEAC				
NO.	PARTS NO.	DESCRIPTION	1st	2nd	3rd
2-51	50490240	PC Board Assy, Rec and Meter Amp	}		
2-52	50490220	PC Board Assy, Bias Adjust A			
2-53	50490210	PC Board Assy, Bias Adjust B	•		
2-54	50233760	Plate, PC Board			
2-55	50236440	Chassis, Amp, A			}
2-56	50236450	Chassis, Amp, B			
2-57	50236330	Trim Panel, Rear			
2-58	50236480	Hinge			
2-59	50434631	Jack, Pin, 2P			1
2-60	50431050	Socket, AC			
2-61	50412143	Voltage Selector, with Fuse Holde	r	ĺ ·	
2-62	50236470	Screw			}
2-63	50452060	Terminal Strip, 1L-2P			
2-64	50454071	Ground Terminal			}
2-65	50236280	Angle, Bias Oscillator			
2-66	50330950	Angle, Control Relay Assy		·	
2-67	50490190	PC Board Assy, Headphone SW			

# PRINTED CIRCUIT BOARD AND PARTS LIST A-3340

#### REPLACEMENT INFORMATION

Replacement parts are available through your nearest TEAC dealer or directly from the TEAC office.

Changes are constantly being made to make TEAC products better and more reliable.

Therefore, when ordering parts, always include the following information:

MODEL

SERIAL NO. REF.NO.

PARTS NO.

**DESCRIPTION** 

- NOTE -

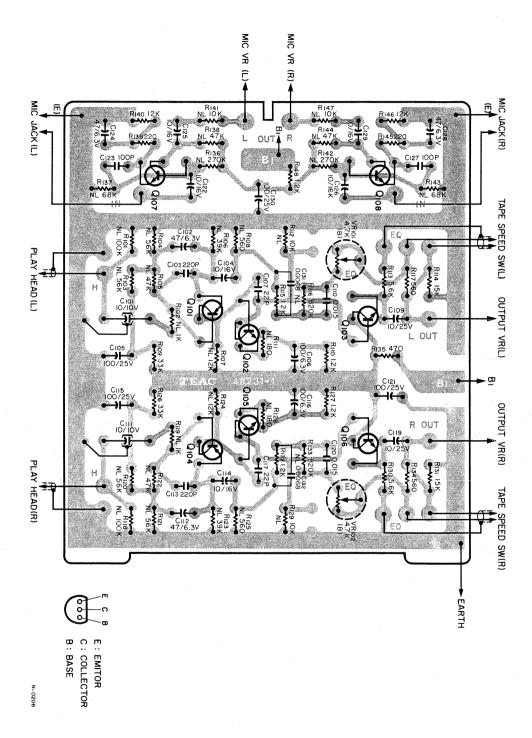
Since the following PC Board Assy is identical to that of the A-3300, please refer to PRINTED CIRCUIT BOARD AND PARTS LIST for the A-3300.

- RECTIFIER
- MOTOR STARTING TORQUE NETWORK

#### MIC AND PLAYBACK EQ. AMPLIFIER

CIRCUIT REF.NO.	TEAC PARTS NO. DESCRIPTION		lst	2nd	3rd
2-49	50490270 PC Board Assy				
	SILICON TRANSISTORS				
Q101/104 Q102/105 Q103/106 Q107/108	50424340 2SC1000-BL 50423650 2SA494-Y 50423830 2SC536-F 50423870 2SC693-G				i i ar i
	CARBON RESISTORS				
	TORS IN OHMS, 10% TOLERANCE, UNLESS OTHERWISE NOTED.				
R101/118 R102/119 R103/120 R104/121 R105/122 R106/123 R107/124 R108/125 R109/126 R110/127 R111/128 R111/128 R111/128 R113/130 R114/131 R115/132 R116/133 R117/134 R135 R136/142 R137/143 R138/144 R139/145 R140/146 R141/147	50515640         100k           50515340         1k           50515610         56k           50515610         56k           50515590         47k           50515500         12k           50515310         560           50515370         33k           50515350         1.2k           50515490         10k           50515440         5.6k           50515510         15k           50515350         1.2k           50515340         1.2k           50515340         1k           50515300         470           50515620         68k           50515590         47k           50515280         330           50515490         10k           50515350         1.2k	50515310 56 50515260 22			
	TRIMMER RESISTOR		· -		·
VR101/102	50533460 4.7kΩ B 10¢				
	CAPACITORS  TORS IN MICRO FARADS HERWISE NOTED.				
C101/111 C102/112 C103/113 C104/114 C105/115 C106/116 C107/117 C109/119 C110/120 C121/130 C122/126 C123/127 C124/128 C125/129 C131/132	50546190 Tantalum 10 10V 50554030 Elec. 47 6.3V 50543420 High Q 220pF 50V 50554050 Elec. 10 16V 50554170 Elec. 100 25V 50554230 Elec. 100 6.3V 50543330 High Q 22p 50V 50554040 Elec. 10 25V 505548420 Mylar 0.015 50V 50554170 Elec. 100 25V 50554050 Elec. 10 16V 50543400 High Q 100p 50V 50554030 Elec. 47 6.3V 50554050 Elec. 10 16V 50554050 Elec. 10 16V 50554050 Elec. 10 16V 50554050 Elec. 10 16V				

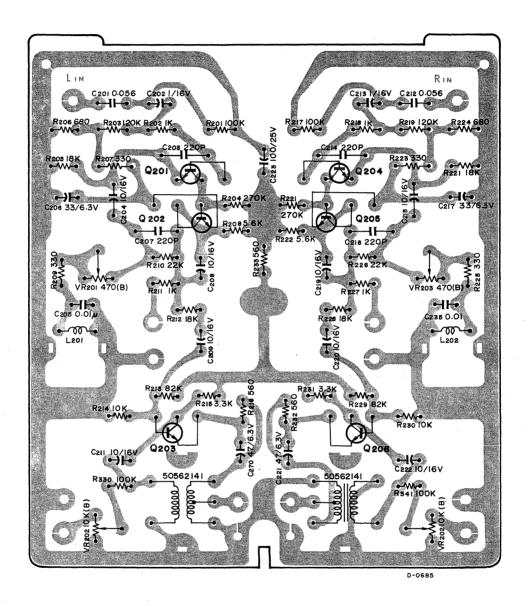
## MIC AND PLAYBACK EQ. AMPLIFIER



# LINE OUT AND PHONE AMPLIFIER

CIRCUIT REF.NO.	TEAC PARTS NO.	DESCRIPTION	lst	2nd	3rd
2-50	50490181	PC Board Assy			
	SILICON T	RANSISTORS			
Q201/204 Q202/205 Q203/206	50423300 50423310 50423310	2SC693-F 2SC536-E 2SC536-E			
	CARBON RE	SISTORS			3
ALL RESIST 1/4 WATTS	TORS IN OH UNLESS OT	MS, 10% TOLERANCE, HERWISE NOTED.			
R203/219 R204/220 R205/221 R206/222 R207/223 R208/224 R209/225 R210/226 R211/227 R212/228 R213/229 R214/230 R215/231	50515630 50515490 50515410	100k 1k 120k 270k 18k 5.6k 330 680 330 22k 1k 18k 82k 10k 3.3k			
R216/232 R233 R234	50515310 50515310 50515640				
	TRIMMER RI	ESISTORS			
	50533440 50533480		33500 1kΩ B		
	CAPACITOR	<b>S</b>		·	-
	ITORS IN M. HERWISE NO:	ICRO FARADS TED.			
C201/212 C202/213 C204/215 C205/216 C206/217 C207/218 C208/219 C209/220 C210/221 C211/222 C223	50548460 50557030 50543420 50548020 50554240 50554250 50554050 50554050 50554050 50554260 50554170	High Q 220p 50V Mylar 0.01 50V Elec. 33 6.3V High Q 220p 50V Elec. 10 16V Elec. 10 16V Elec. 47 6.3V Elec. 33 16V			
	MISCELLAN	EOUS			
T201/202 L201/202	50562140 50566640	Transformer, Output $3k\Omega:8\Omega$ Coil, Choke $220\mu H$			

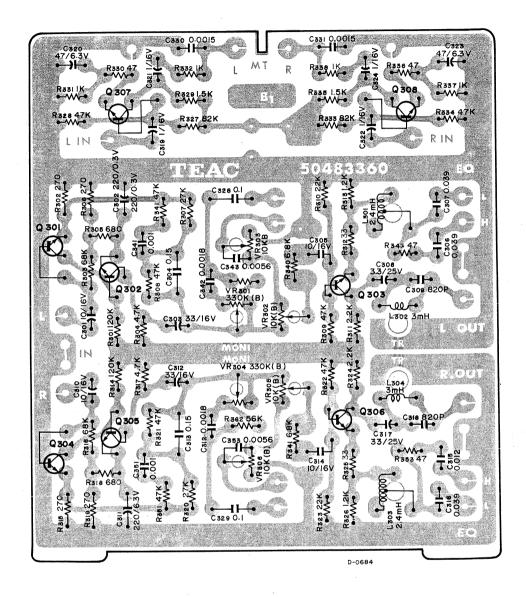
#### LINE OUT AND PHONE AMPLIFIER



# METER AND REC. EQ. AMPLIFER

CIRCUIT REF.NO.	TEAC PARTS NO.	DESCRIPTION		1st	2nd	3rd
2-51	50490240	PC Board Assy				
	SILICON T	RANSISTORS				
Q301/304 Q302/305 Q303/306 Q307/308	50423870 50424220 50424220 50424220	2SC693-G 2SC828-S 2SC828-S 2SC828-S				
	CARBON RE	SISTORS	· ·			
		M, 10% TOLERANCE ERWISE NOTED.				
R301/314 R302/315 R303/316 R304/317 R305/318 R306/319 R307/320 R308/321 R309/322 R311/324 R312/325 R313/326 R327/333 R328/334 R329/335 R330/336 R331/337 R332/338 R340-341 R342/352 R343/353	50515650 50515270 50515270 50515460 50515320 50515270 50515560 50515590 50515590 50515380 50515380 50515630 50515630 50515630 50515590 50515340 50515340	120k 270 68k 4.7k 680 270 27k 47k 47k 42k 2.2k 2.2k 33 1.2k 82k 47k 1.5k 47				
	TRIMMER R	ESISTORS				
VR302/305	50533670 50533480 50533480	330kΩ B 10φ 10kΩ B 10φ 10kΩ B 10φ				
	CAPACITOR	S				
	CITORS IN M CHERWISE NO	ICRO FARADS TED.				
C304/313	50554330 50554260 505548310 50554050 505549240 50554220 50543440 50557030 50557030 50554030 50548210 50548040 50548780 50548780	Elec. 220 6.3V Elec. 33 16V Mylar 0.15 50V	Discontinued 50543130 Polyst	. 500p		
	COILS					
L301/303 L302/304	50566370 50566300	Record Compensation 2.4~4 Trap 3mH	.2mH			

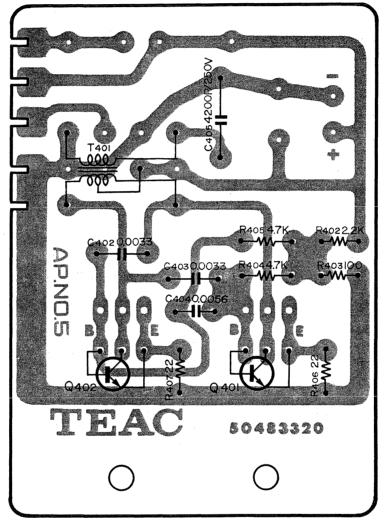
# METER AND REC. EQ. AMPLIFIER



# **BIAS OSCILLATOR**

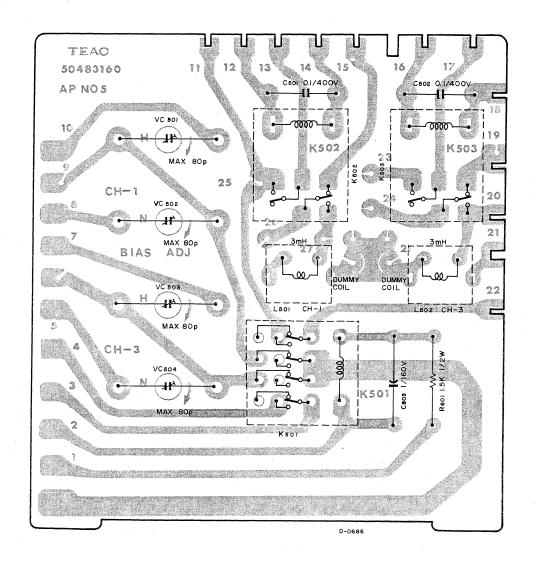
CIRCUIT REF.NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
2-47 T401	50490290 50563230	PC Board Assy Coil, Oscillator			
	SILICON T	RANSISTORS			
Q401·402	50424450	2SC1226A-R			
	RESISTORS				
R402 R403 R404 • 405 R406 • 407	50515220 50516440	Carbon 2.2k $\Omega$ 1/2W Carbon 100 $\Omega$ 1/4W Carbon 4.7k $\Omega$ 1/2W Carbon 22 $\Omega$ 1/2W			
	CAPACITOR	S			
C402·403 C404 C405		Mylar 0.0033μF 50V Mylar 0.0056μF 50V Mica 4200pF 250V			

## **BIAS OSCILLATOR**



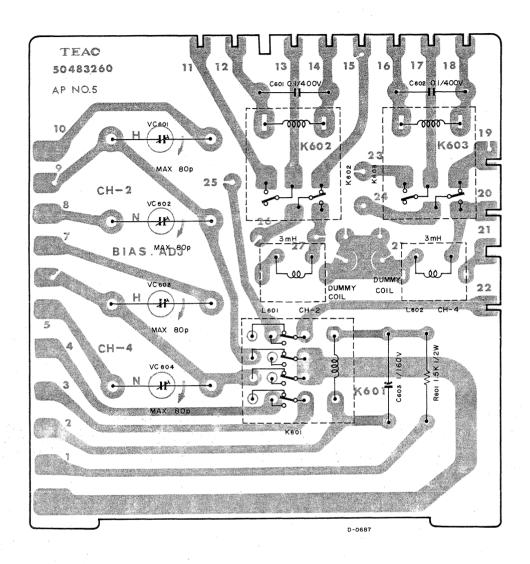
D-0690

#### BIAS ADJUST ASSY A



CIRCUIT REF.NO.	TEAC	DESCRIPTION	7 - 4	0 1	2 . 1
KEF . NO .	TAKIS NO.	DESCRIPTION	lst	2nd	3rd
2-52	50490220	PC Board Assy			
VC501·502	50547070	Trimmer Capacitor, MAX 80pF	,		
VC503·504	50547070	Trimmer Capacitor, MAX 80pF			
L501.502	50566620	Coil, Dummy Load			
C501.502	50549920	Cap., Mylar 0.1µF 400V			
C503	50554380	Cap., Elec. 1µF 160V			
K501	50610730	Relay, 4T DC 100V			
K502·503	50610790	Relay, 2T DC 24V			
R501	50574860	Resistor, Carbon $1.5k\Omega$ $1/2W$			

#### BIAS ADJUST ASSY B

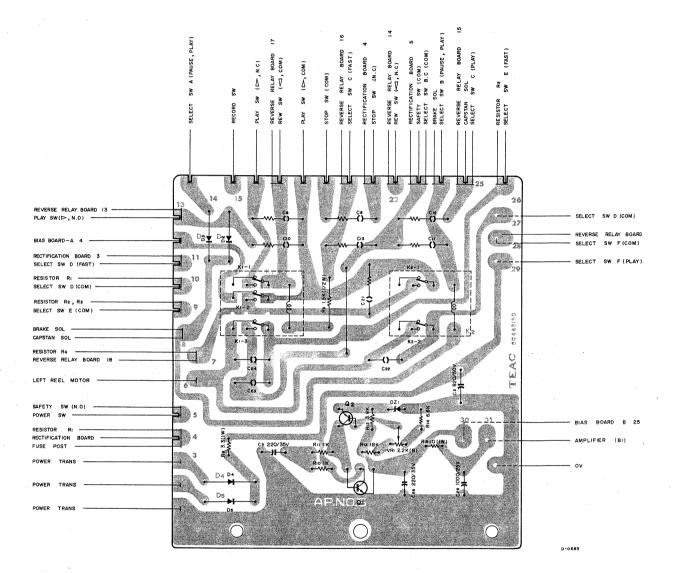


CIRCUIT REF.NO.	TEAC PARTS NO.	DESCRIPTION	lst	2nd	3rd
2-53	50490210	PC Board Assy			
VC603·604 L601·602		Trimmer Capacitor, MAX 80pF Trimmer Capacitor, MAX 80pF Coil, Dummy Load			
C603					
K601 K602·603 R601	50610730 50610790 50574860	Relay, 4T DC 100V Relay, 2T DC 24V Resistor, Carbon $1.5k\Omega$ $1/2W$			

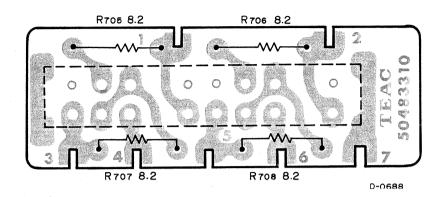
#### **CONTROL RELAY**

CIRCUIT REF.NO.	TEAC PARTS NO.	DESCRIPTION	lst	2nd	3rd
2-48	50490230	PC Board Assy			
	RELAYS				
K1 K2	50610730 50610750	4T, MY-4-0 DC 100V 2T, MY-2-0 DC 100V			
	SILICON T	RANSISTORS			
Q1 Q2	50424270 50423510				
	DIODES				
D2·4·5 D3 DZ1	50422360 50422380 50422580	FR2-10			
	RESISTORS				
R7 R8 R9 R15·16 R17·20 R18 R19	50515430	Wire Wound $3.3\Omega$ 1W Wire Wound $10\Omega$ 1W Carbon $1k\Omega$ 1/4W Carbon $3.9k\Omega$ 1/4W Carbon $8.2k\Omega$ 1/4W			
	TRIMMER R	ESISTOR			-
VR1	50533640	2.2kΩ B 10ø			
	CAPACITOR	S			
C2 C3 C8~13 C21 C22·23·24 C38 C39	50554380 50554440 50529050 50529050 4 50548390 50557080 50554630	Elec. 220µF 35V Elec. 1000µF 25V Spark Killer 0.1µF + 1 Spark Killer 0.1µF + 1 Mylar 0.1µF 400V Elec. 820µF 50V Elec. 220µF 50V			

#### CONTROL RELAY

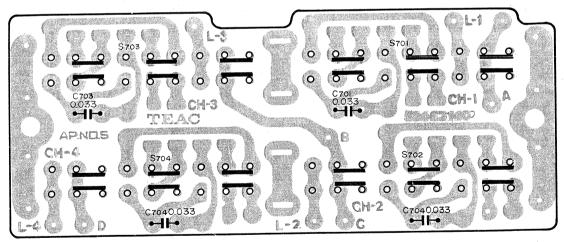


## HEADPHONE SWITCH



CIRCUIT REF.NO.	TEAC PARTS NO.	DESCRIPTION	lst	2nd	3rd
2-67		PC Board Assy			
R705∿708	50515080	PC Board Resistor, Carbon 8.2Ω 1/4W Switch, Slide	***		

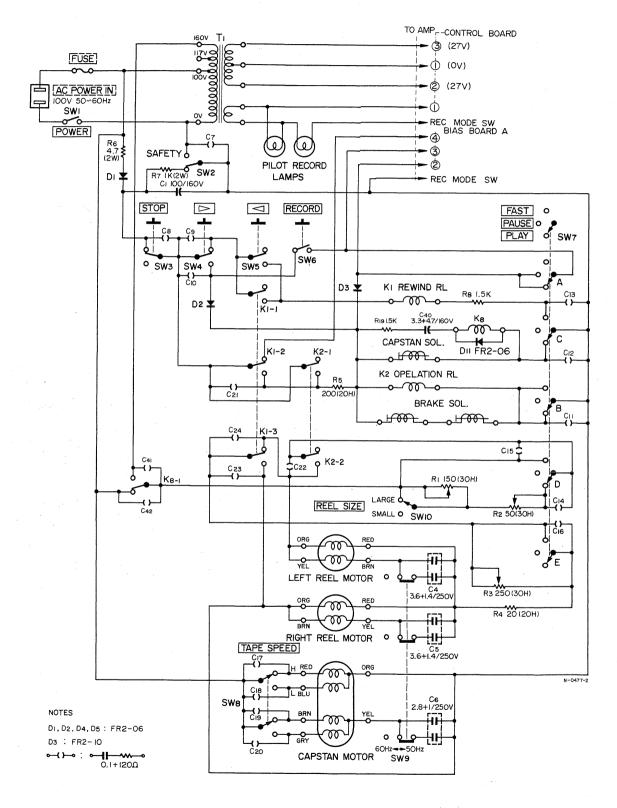
#### SYMUL-SYNC



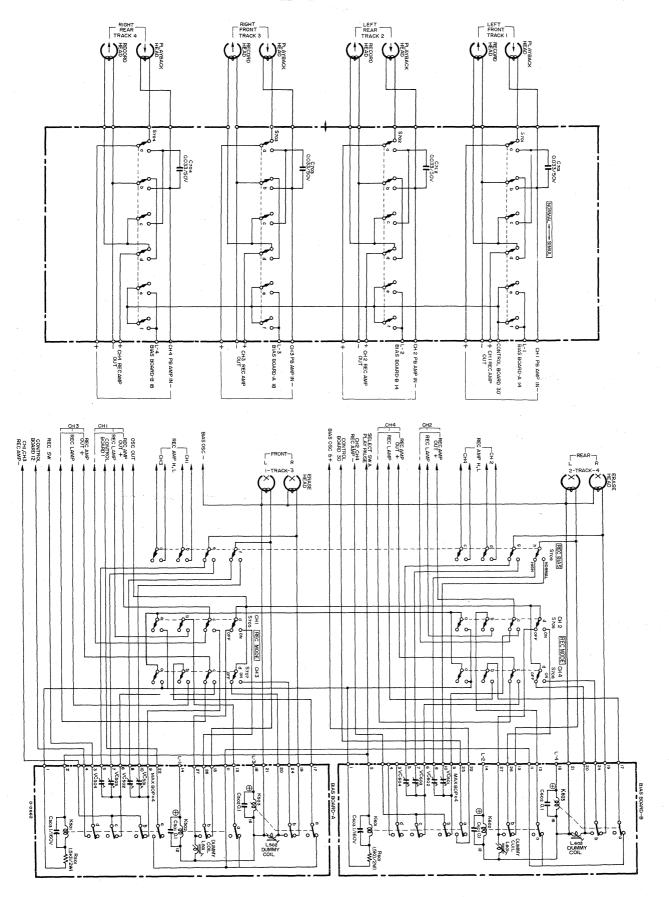
D-0689

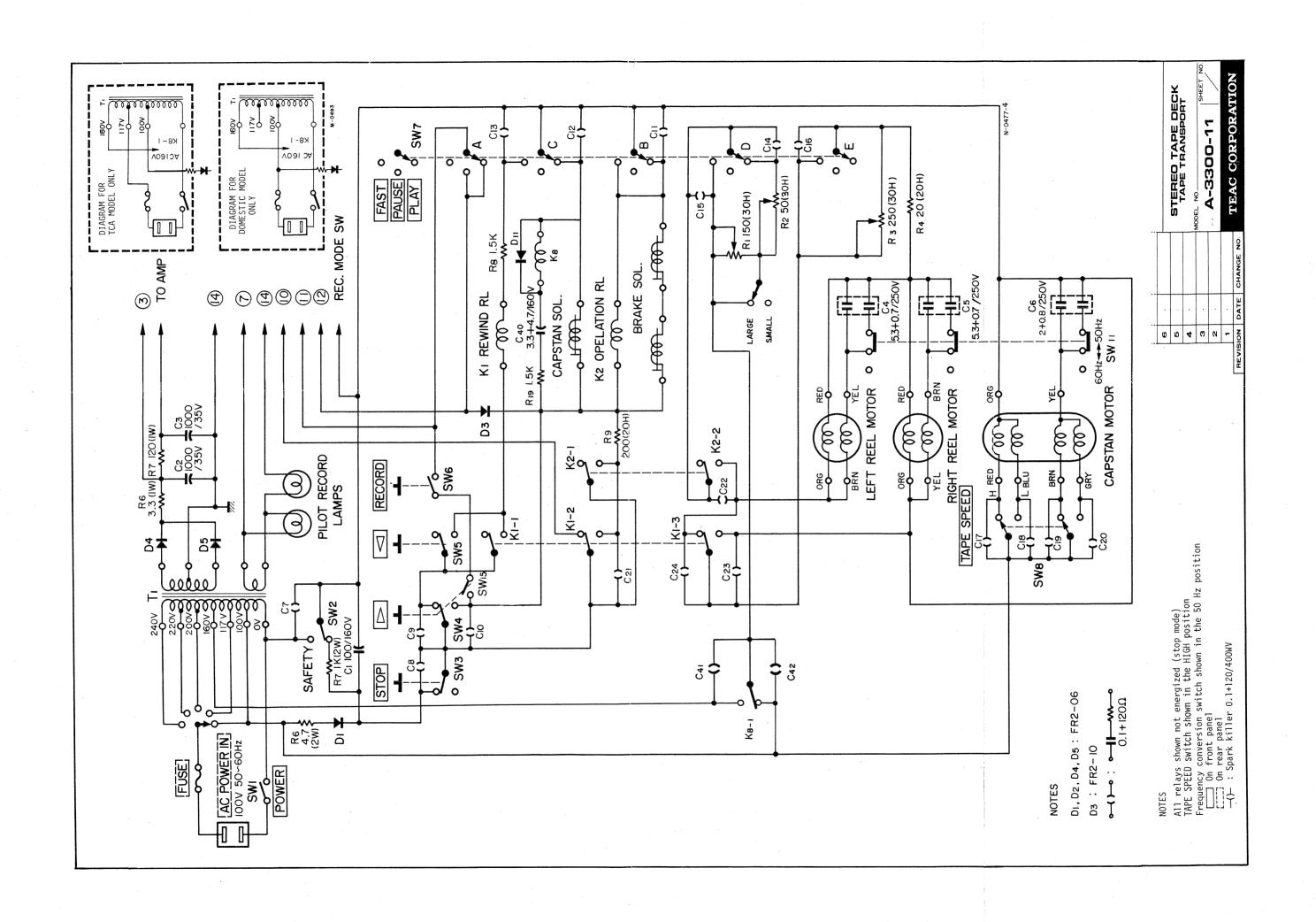
CIRCUIT REF.NO.	TEAC PARTS NO.	DESCRIPTION	lst	2nd	3rd
1-10	50483140				
C701~704	50444480 5054824 <b>0</b>	Switch, Slide Cap., Mylar 0.033µF 50V			

#### TAPE TRANSPORT

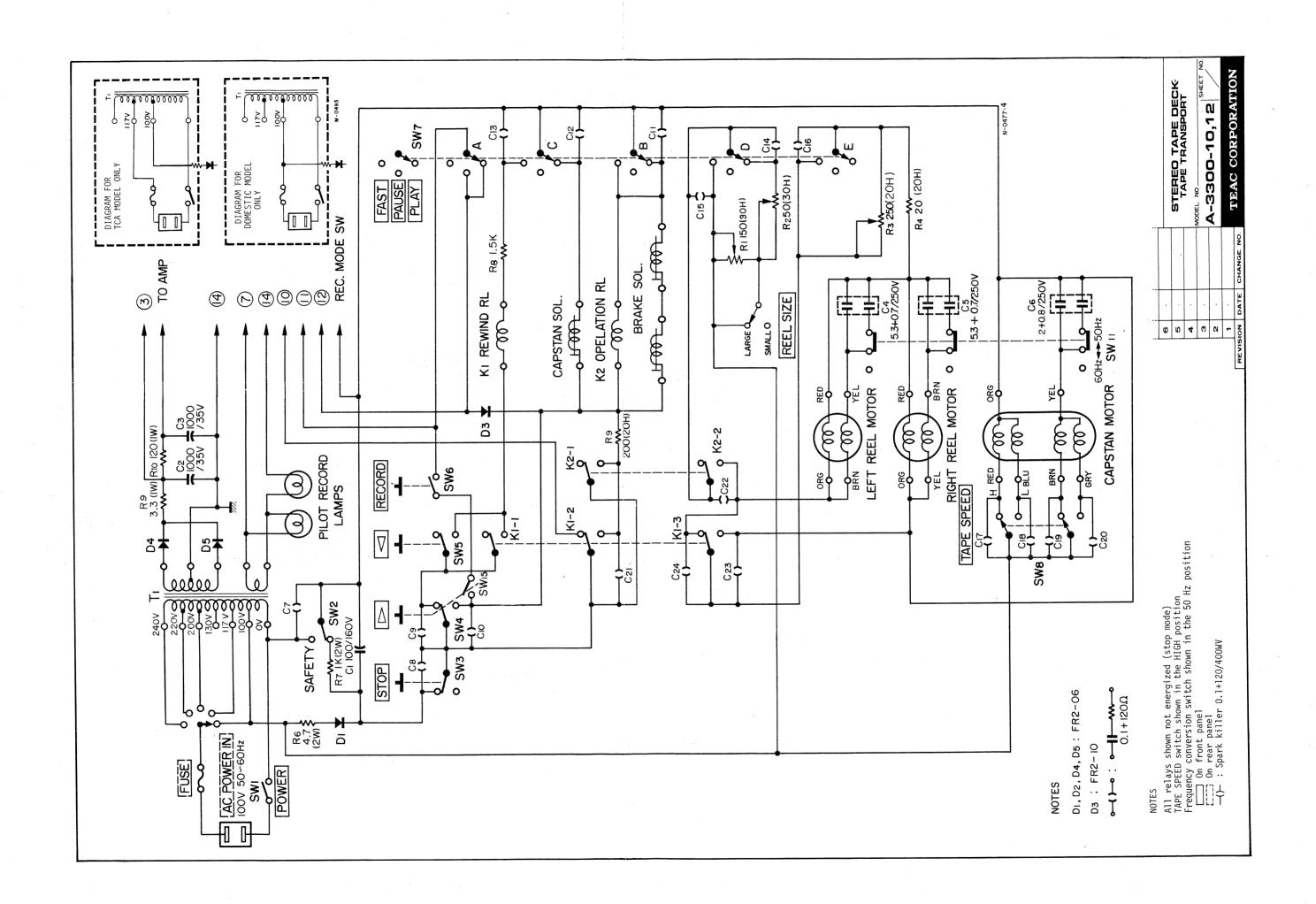


#### HEAD ASSY

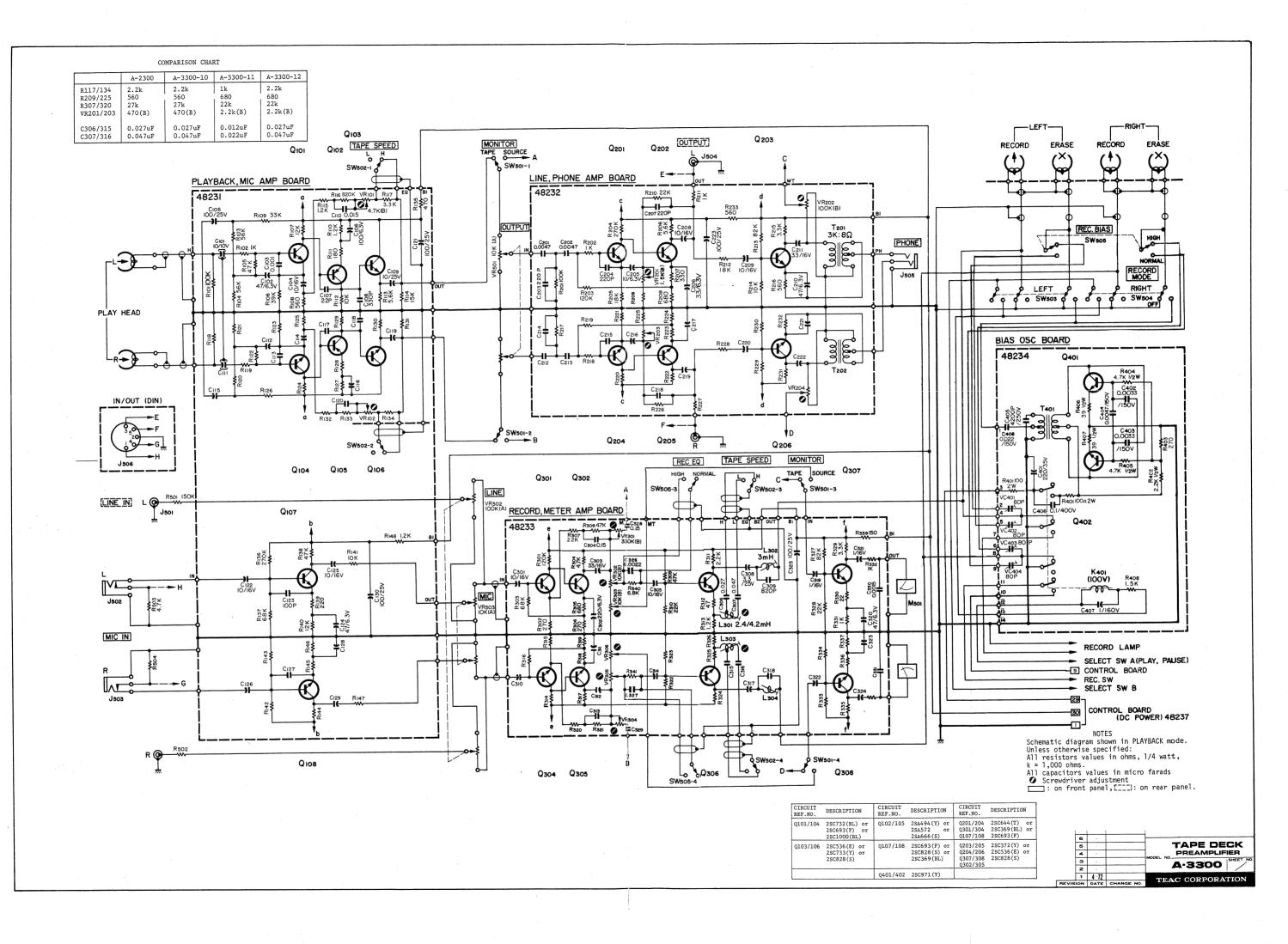




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# TIBAC MANUAL SHILLT

MT2300C103 MT2500C104 MT3300C101 MT3310C101

APPLICABLE SERIAL NO.

10500 / 11500 (BLK) FOR A-2500

LOCATION IN SERVICE MANUAL CONTROL PANEL

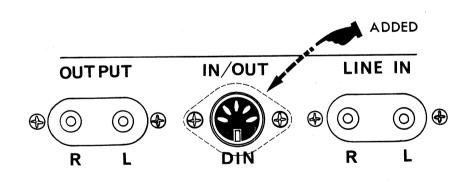
MODELS A-2300, A-2500, A-3300

ADDITION OF DIN CONNECTOR

#### ALSO APPLICABLE

DESCRIPTION	MODEL	PARTS NO.
DIN CONNECTOR	A-2300 (DM) TEAC 2300 (UL) A-2500 (DM) TEAC 2500 (UL) A-3300 (DM) TEAC 3300 (UL)	50430010

MODEL		SERIAL NO.	
A-3300-10(EX)		7021	
	(EX)	7101	
	TEAC	7151	
A-2300	(EX)	21010	
-	(DM)	21090	



#### NOTE

DM : For only domestic (Japan) market decks, all models.

EX: For all export versions except TCA or Japan, all models.

TCA: For TCA (US) versions only, all models.

E-323

# TILAC MANUAL SHIBIDO O SERVES NO MT2500C107/MT3300C102

MT3310C102

#### APPLICABLE SERIAL NO.

6341 FOR A-2500

# LOCATION IN SERVICE MANUAL REAR COVER ASSY

MODELS A-2300, A-2500, A-3300, A-3340

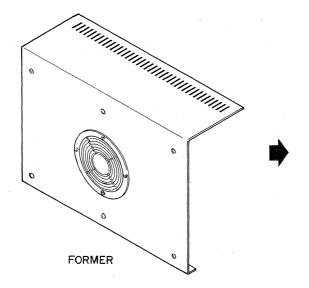
REAR COVER REVISION

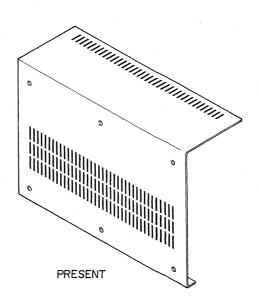
Rear Cover Assy has been revised as shown in the below illustration.

DECORTRETON		TEAC PARTS NO.	
DESCRIPTION	MODELS	FORMER	PRESENT
	A-3300 A-3340	50287620	50288300
REAR COVER ASSY	A-1230 A-2520	50941242	50288290
	A-2100 A-2300	50286631	50288280

ALSO APPLICABLE

MODEL	SERIAL NO.
A-2100 (DM)	3441
A-3340 (EX)	114801
(DM)	114831
(EX)	114871
(DM)	114941





E-391

M-0250

# TEAC MANUAL SHEET

#### APPLICABLE CHASSIS NO.

SEE BELOW CHART

#### LOCATION IN SERVICE MANUAL

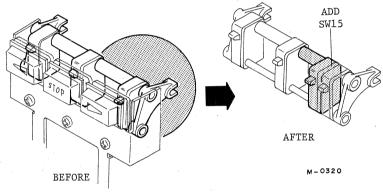
MODELS

A-2300, A-3300, A-2340, A-3340

CONTROL PANEL -EXPLODED VIEW-

#### RECORDING RELAY CIRCUIT CHANGE

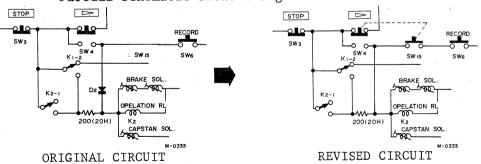
To insure reliable operation of the recording relay circuit the circuit and parts have been revised as shown in the diagram. Diode D2 has been deleted and switch SW15 has been added.



MODELS	APPLICABLE SERIAL NO.
A-2300	22611 AND AFTER
A-1230	66951 AND AFTÉR
A-2340	1387 AND AFTER
A-3300(10)	12621 AND AFTER
A-3340	115701 AND AFTER

CONTROL PUSH BUTTON ASSY

Partial schematic shows change in this circuit.



		TEAC PARTS NO.	
REF.NO.	DESCRIPTION	BEFORE	AFTER
2-30	BASE PLATE HOLDER A BASE PLATE HOLDER B MICRO SW V-1A44 DIODE FR2-06	50241121 ×2  50446180	50241121 ×1 50241950 ×1 50446180 ×1 OMIT

E-458

**SERIES NO. MT2300C207** MT3300C104 MT2500C208 MT3310C104

A-2100

A-2300, A-1230, TEAC-1230

A-2500, A-1250, TEAC-1250 A-3300, TEAC-3300

MODELS\_

A-3340, TEAC-3340

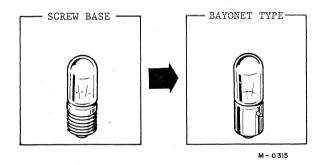
APPLICABLE SERIAL NO.

SEE BELOW CHART

LOCATION IN SERVICE MANUAL

#### PILOT LIGHT CHANGE

Pilot light assy has been changed from screw base to bayonet type to preclude loosening of bulb during transportation.



MODELS	APPLICABLE SERIAL NO.
A-2300	21010 AND AFTER
A-1230	65971 AND AFTER
TEAC-1230	111701 AND AFTER
A-2500	10500 AND AFTER
A-1250	55651 AND AFTER
TEAC-1250	101001 AND AFTER
A-3300(10)	7021 AND AFTER
A-3300(11)	1980 AND AFTER
A-3300(12)	0501 AND AFTER

The chart below describes the changes. For reference, see the appropriate schematic and exploded view.

· .	TEAC PARTS NO.	
DESCRIPTION	BEFORE	AFTER
Socket, Lamp Lamp, Bayonet Type (8V)(DM,EX) Lamp, Bayonet Type (8V)(TCA)	50415030 50414131 50414131	50415250 50414510 50414580

NOTE: DM

For only domestic (Japan) market decks, all models.

ΕX

For all export versions except TCA or Japan, all models.

TCA

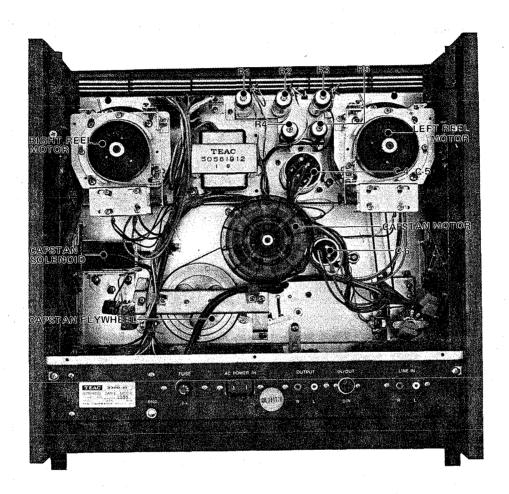
For TCA (US) versions only, all models.

E-280, E-470

# TEAC A-3340 STEREO TAPE DECK



# TAPE TRANSPORT PARTS LOCATION A-3300/3340



REAR