

TEAC®

A-7010 GSL A-7030 GSL STEREO TAPE DECK SERVICE MANUAL



A-7010GSL



A-7030GSL

TEAC CORPORATION

TEAC CORPORATION OF AMERICA

TEAC TONBAND-ANLAGEN
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1. GENERAL DESCRIPTION

The TEAC A-7030GSL has a heavy duty transport mechanism; three motors, solenoid operated, four high density ferrite heads provided (erase, record, playback and reverse playback); dual system automatic reverse, phase sensing signal or foil operated; 10-1/2 inch reel capacity, reel size selector provides optimum tape tension.

The AR-70GSL preamplifier circuits use IC and silicon transistors. Independent circuits are provided for recording, monitoring, VU meter amplifier and playback functions. Electrical assembly provides two level bias selection for conventional and low noise/high out tapes, dual scale VU meter, meter level switch for optimum recording accuracy with any type recording tape; full MIC/LINE mixing capability with individual mic/line amplifiers and individual level controls.

The basic design of the A-7030GSL is highly similar to the preceding A-7030GSL model. The A-7030GSL is a professional tape deck offering operating speeds of 7-1/2ips and 15ips. Normal head configuration is two track record and playback with an extra four track playback head. Sensing foil operated automatic rewind or stop operation is included. Incorporates all electrical assembly feature of the A-7010GSL exception equalization is for 7-1/2ips and 15ips tape speed.

The service manual provides adjustment and alignment procedures, schematic diagrams and parts replacement information with 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, addresses of which are printed in this manual.

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2. SERVICE DATA

MECHANICAL

A-7010GSL

A-7030GSL

| | | |
|---------------------|---|---|
| FERRITE HEADS: | Four separate heads assembled in plug in unit. Erase; Four track 1.8k Ω /100kHz, erase current approx. 30mA Record; Four track 80 Ω /1kHz, bias current approx. 3mA (signal 200 μ A) Forward/Reverse playback; Four track 1.6k Ω /1kHz -64dB/400Hz | Four separate heads assembled in plug in unit. Standard; two track erase two track record two track playback four track playback Erase; 1.8k Ω at 100kHz, Erase current approx. 35mA. Record; 85k Ω at 1kHz, Bias current approx. 3mA. Playback; 1.3k Ω at 1kHz -60dB/400Hz |
| DIODES | SIB01-02 \times 2 SIB01-06 \times 6 | SIB01-02 \times 2 SIB01-06 \times 8 |
| REEL SIZE: | 10-1/2" maximum NAB reel | 10-1/2" maximum NAB reel |
| TAPE WIDTH: | Standard 1/4inch tape | Standard 1/4inch tape |
| TAPE SPEED: | 7-1/2ips and 3-3/4ips (0.5%) | 15ips and 7-1/2ips (0.5%) |
| MOTORS: | One- 4/8 pole dual speed hysteresis synchronous motor for capstan drive. Two- Six pole eddy current motors for reel drive. | One- 4/8 pole dual speed hysteresis synchronous motor for capstan drive. Two- Six pole eddy current motors for reel drive. |
| FAST WINDING TIME: | Approx. 200 seconds for 3600ft 10" NAB reel | Approx. 200 seconds for 3600ft 10" NAB reel |
| WOW AND FLUTTER: | 0.06% at 7-1/2ips 0.09% at 3-3/4ips Wow and flutter measured according to weighted NAB standard using TEAC flutter free tape. | 0.04% at 15ips 0.06% at 7-1/2ips |
| OPERATING POSITION: | Horizontal or vertical. | Horizontal or vertical. |
| POWER REQUIREMENT: | 100/117/200/220/240V AC 50/60Hz 150W | 100/117/200/220/240V AC 50/60Hz 150W |
| WEIGHT: | 28kg (61.6 lbs) | 28kg (61.6 lbs) |

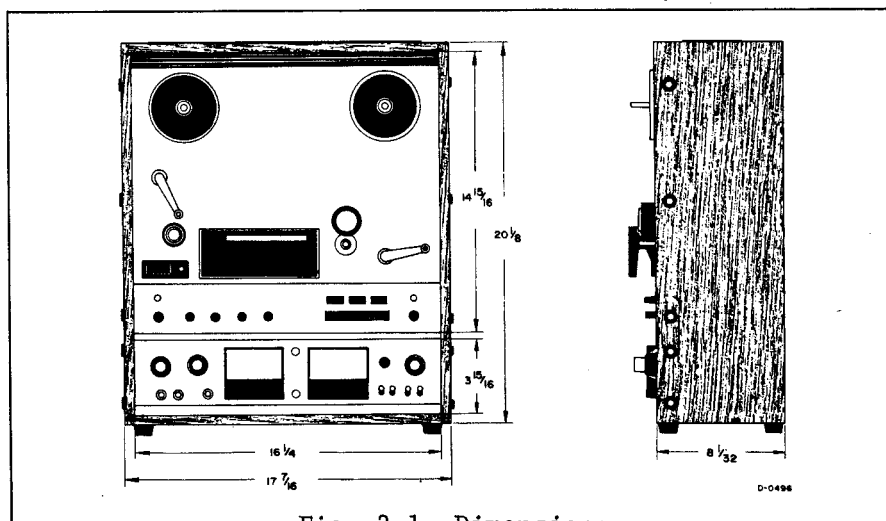


Fig. 2-1 Dimensions

SERVICE DATA (CONTINUED)

ELECTRICAL

| | |
|------------------------|--|
| Transistors: | 2SC1000BL ×2 2SC971 ×2 2SC536F ×2 2SD235 ×1 2SC693F ×2 2SA494Y (2SA666IS) ×2 2SA572YL4 (2SA666IS) ×2 2SC733Y (2SC828R) (2SC536F) ×7 |
| IC: | TEAC 42709 (LD-3120) ×4 TEAC 42710 (LD-3141) ×2 |
| Diodes: | SIB01-02 ×5, Zener, 02Z 6.2A ×1 |
| Frequency Response: | Overall from recording INPUT to playback LINE OUT. Refer to frequency response limits. |
| Equalization: | NAB equalization 15ips, 7-1/2ips 50μsec. 3-3/4ips 90μsec. |
| Input: | MIC: 600Ω, 0.25mV LINE: 50,000Ω or more, 0.1V |
| Output: | LINE: 0.3V for load impedance of 10,000Ω or more. PHONES: 8Ω |
| Bias Frequency: | 100kHz push-pull oscillator |
| Signal to Noise Ratio: | 44dB or more at 3-3/4ips 46dB or more at 15, 7-1/2ips unweighted noise |
| Cross Talk Rejection: | Channel to channel at 1kHz/45dB or more Adjacent track at 125Hz/35dB |
| Erase Efficiency: | 70dB or more at 7-1/2ips, 15ips(A-7030GSI) |

These specifications are indispensable information and are required to service the equipment properly. They may differ slightly from those printed in the advertising brochures or the operation manual.

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.

3. EQUIPMENT REQUIRED

For proper adjustment and measurement, it is recommended that the following test equipment be available;

FOR MECHANICAL MEASUREMENT

| | |
|------------------------|---|
| SPRING SCALE: | 0~4 kilo-grams (0~8 lbs) #5086025000 0~300 grams (0~10 oz) #5086026000 |
| TEST TAPE: | TEAC YTT-2004 for 15ips TEAC YTT-2003 for 7-1/2ips TEAC YTT-2002 for 3-3/4ips |
| FLUTTER METER: | Meguro Model MK665B (preferred) or Sentinel FL-3D-1 |
| DIGITAL FREQ. COUNTER: | Capable of 0 to 5kHz indication |
| TOOLS: | General, 2mm nut driver #5086014000 Hex head, Allen wrench #5086021000 |

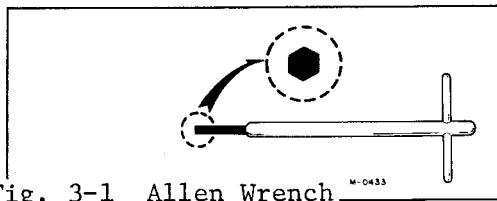


Fig. 3-1 Allen Wrench

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 tests |
| EMPTY REEL | TEAC RE-702 (2" hub) TEAC RE-701 (4" hub) TEAC 10" reel |
| TEST SET: | TEAC M-826A test set |
| BAND PASS FILTER: | TEAC M-206A (1kHz) |
| AC/DC VTVM: | General purpose |
| RESISTOR: | Non inductive type 8Ω/1W |
| OSCILLOSCOPE: | General purpose |

NOTE: Use of the TEAC M-826A test set is recommended. This set incorporates a LEVEL METER, Audio Oscillator, Channel Selecting Switch, Variable Attenuator, Monitor Speaker and Cables.

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

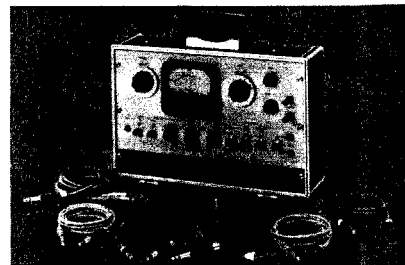


Fig. 3-1 TEAC Test Set
M-826A

4. PARTIAL DISASSEMBLY

TAPE TRANSPORT REMOVAL

- Remove power cord and other connecting cords.
- Lay the equipment face down on a soft mat.
- Remove the two rear cover screws on the top of rear cover.
- Remove three upper screws on both sides of the case.
- Gently lift the case from the tape transport.

AMPLIFIER REMOVAL

- Remove two screws on both sides of the case.
- Slide the amplifier from case.

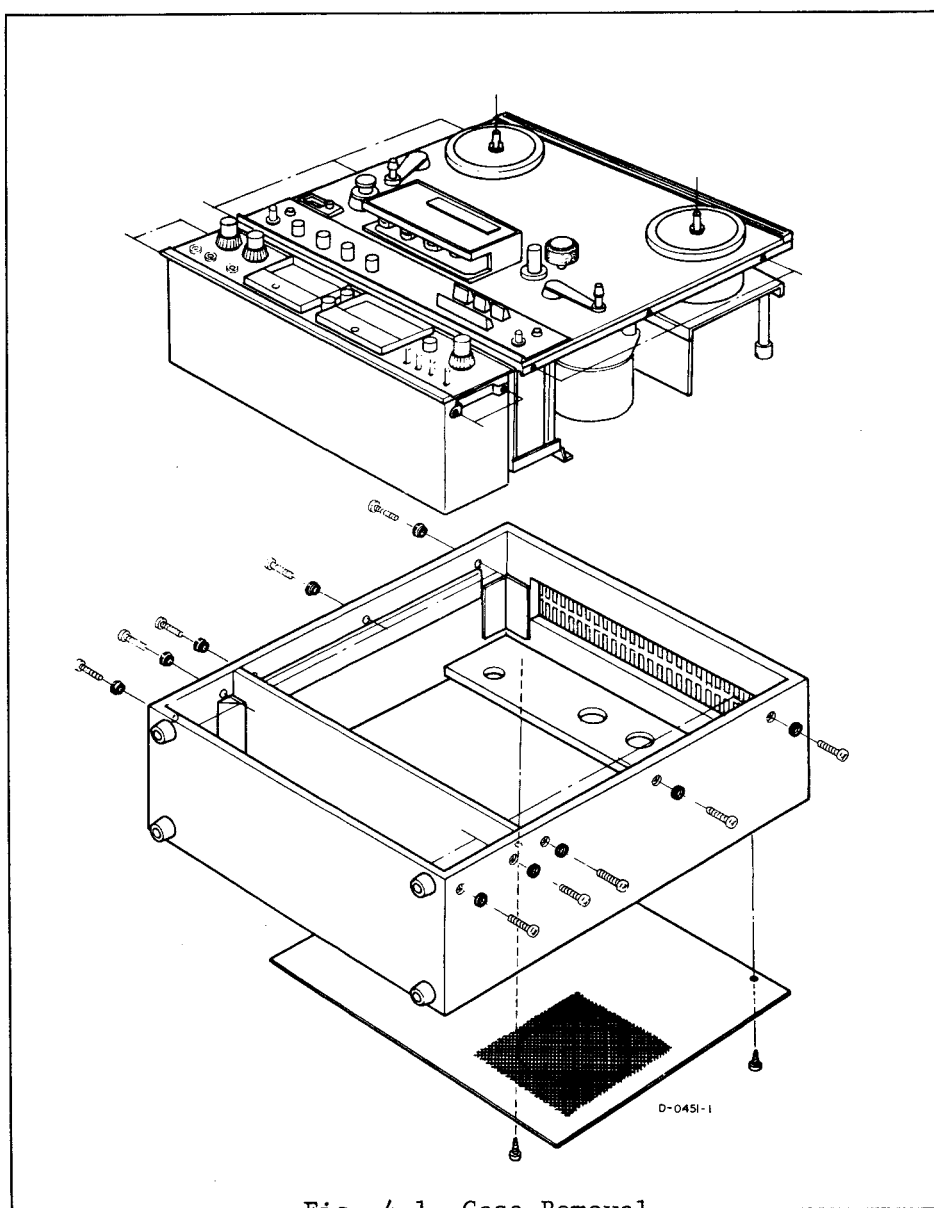


Fig. 4-1 Case Removal

LEFT TENSION ARM REPLACEMENT

- Unsolder two wires from terminal strip.
- Disconnect one end of the spring.
- Loosen allen screw and spring retaining pin then lift out tension arm.

IMPORTANT: A special grease (MULTI DIA SS-10) must be applied during installation between the tension arm shaft and the bushing to maintain proper tension arm damping.

- To install, reverse the previous procedures.

RIGHT TENSION ARM REPLACEMENT

- Disconnect one end of the spring.
- Loosen allen screw retaining the tension arm shaft, and gently lift out the tension arm.
- Apply "MORICOTE" (graphite-molybdenum based) to tension arm shaft and bushing during installation.
- After installation, check tension arm operation. It should operate freely and the thrust clearance should be minimum (secure but not binding).

REEL MOTOR REPLACEMENT

- Use a special allen wrench (Fig.3-2). Access to the two reel table retaining screws is from the top of the unit (slots provided).
- Disconnect 34P connector from the reel motor assembly.
- Remove the reel motor assembly by removing four mounting screws.

CAUTION: Extreme care must be taken not to damage PC board or relays when removing the reel motor assembly.

- Remove the brake drum after loosening the two allen screws on the motor shaft.
- Cut the four wires connecting the reel motor approx. 1" above the terminal.
- Remove the four screws mounting the motor.
- To reinstall reel motor, reverse above procedures. Use the wire remaining on the terminal for a guide in re-wiring the new motor.

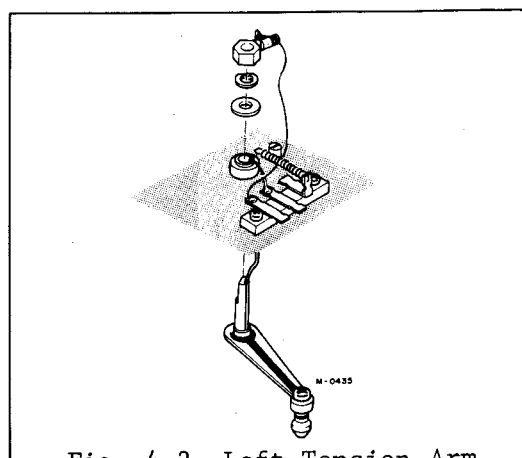


Fig. 4-2 Left Tension Arm

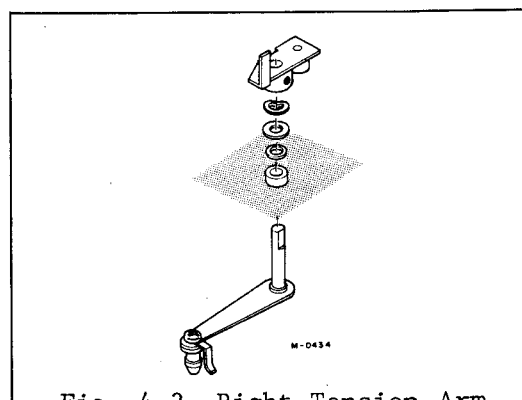
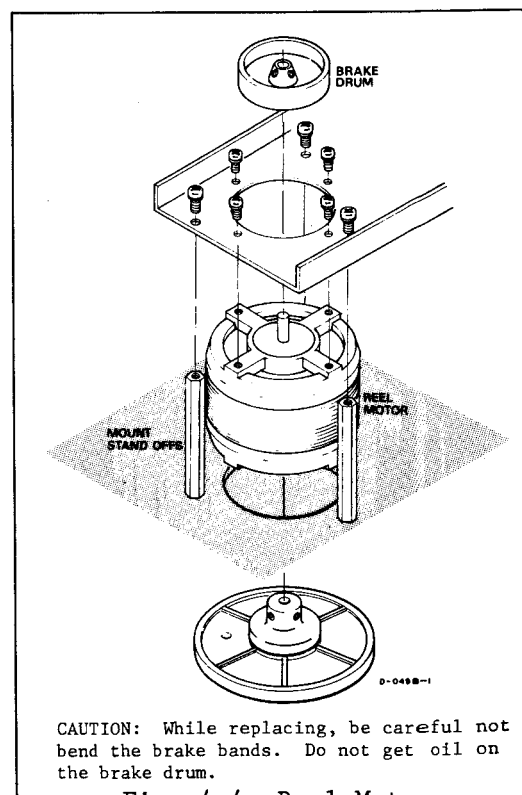


Fig. 4-3 Right Tension Arm



CAUTION: While replacing, be careful not to bend the brake bands. Do not get oil on the brake drum.

Fig. 4-4 Reel Motor

CAPSTAN ASSEMBLY REPLACEMENT

- Remove capstan dust cap on the front panel.
- Remove two screws mounting the thrust plate and pull away from the chassis.
- Remove capstan belt.
- Loosen two allen screws in the capstan flywheel and remove the flywheel.
- Remove three screws mounting the capstan assembly and lift the assy upward.
- Reverse the above procedures when installing the capstan assembly.
- During installation, apply a thin application of grease to the panel inside the thrust plate.

CAUTION: A clearance of approx. 0.5mm must be maintained between the flywheel and capstan assembly.

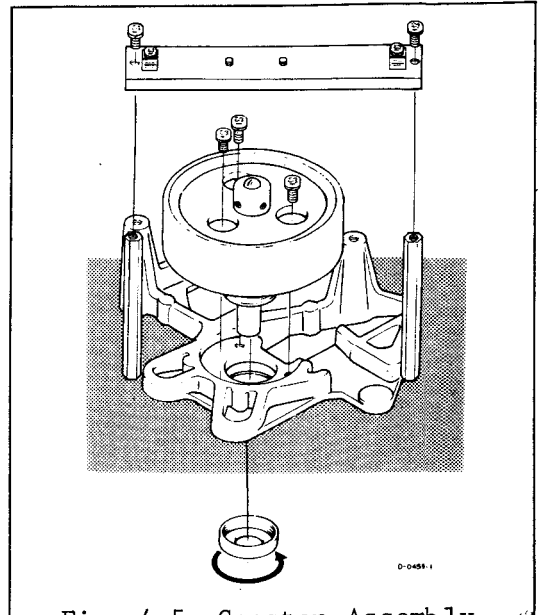


Fig. 4-5 Capstan Assembly

CAPSTAN MOTOR REPLACEMENT

- Remove the fan by loosening two hex screws.
- Remove the capstan belt, PC board and capstan pulley by loosening two hex set screws.
- Cut the six wires connecting the motor to the PC board.
- Remove the three slotted screws (studs bolt).
- Gently fold capstan motor assy and remove the four screws holding the motor on the pulley side. Then remove the four motors holding screws on the fan side.
- To reassemble, reverse the procedures.

NOTE: After motor replacement, check position of capstan pulley on shaft for proper alignment with belt guide.

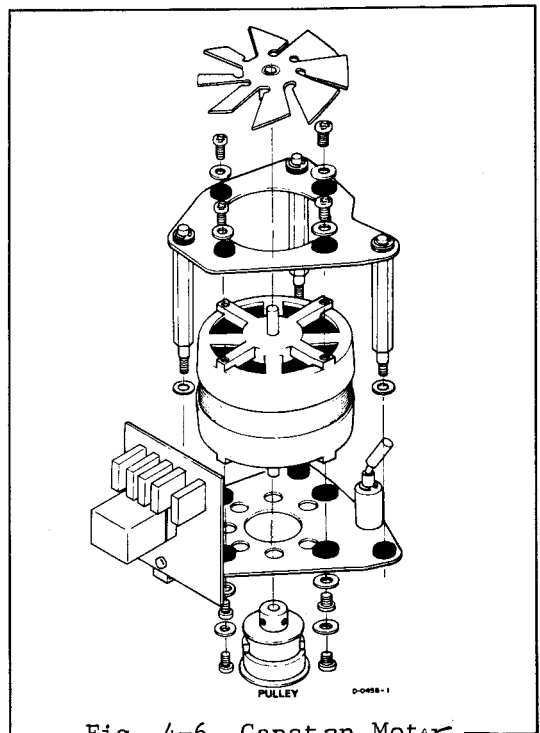
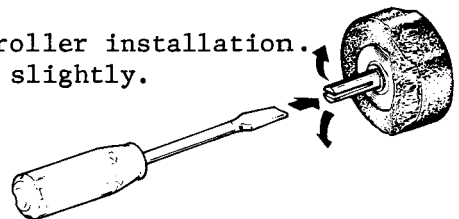


Fig. 4-6 Capstan Motor

Check for a firm, Secure pinch roller installation.
If it is loose, spread the slot slightly.



HEAD REPLACEMENT

NOTE: Heads can be replaced individually or as a complete assembly. Azimuth adjustment (electronic) is not to be performed until all mechanical alignments have been performed. After replacing the heads, proceed to the next page for mechanical alignment.

CAUTION: All power must be removed from the unit when replacing heads to prevent transient pulses from passing through the heads. These may cause strong magnetization of the head material or damage the delicate winding.

HEAD ASSEMBLY REPLACEMENT

- Remove the head housing cover by loosening two hex screws on top of cover.
- Remove the four mounting screws indicated by the arrows in the diagram.
- Slide the assy out from the plug.
- Fit the original shielding plate onto the new head assy.
- Slide the new assembly onto the unit and secure the four screws.
- Proceed to the next page for mechanical alignment procedures.

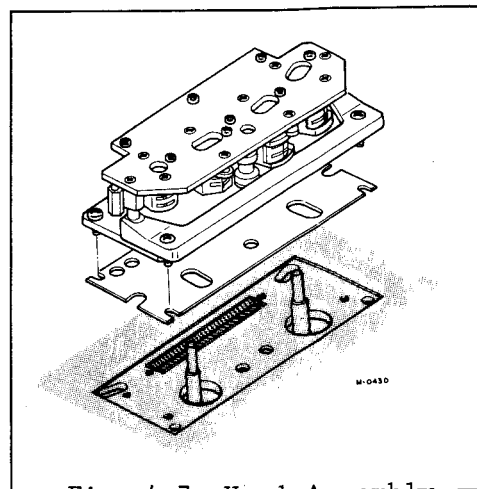


Fig. 4-7 Head Assembly

INDIVIDUAL HEAD REPLACEMENT

NOTE: All of the heads are individually mounted on the top base plate of the head assembly for easy accessibility and servicing.

- Remove head housing cover to expose head assy.
- 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 to release the head from the mounting plate.
- Note the position of the head's wires on the circuit board and unsolder the defective head.
- Using fig. 5-1 for reference, connect the new head to the circuit board.
- Head installation mounting provides for either left or right positioning.
- Determine the proper position by adjusting the nuts to obtain a 90° angle between the tape and the head.
- Proceed to the next page for mechanical alignment procedures.

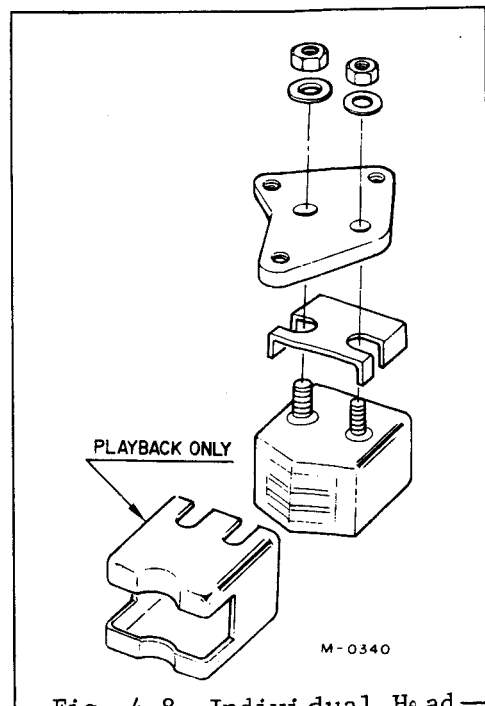


Fig. 4-8 Individual Head

5. HEAD MECHANICAL ALIGNMENT

NOTE: Head alignment is adjusted at the factory to very critical tolerances. Normally HEAD ASSEMBLY replacement will require only minor alignments or adjustments. Complete readjustment should only be necessary after an individual head is replaced. The adjustments are made as follows:

ERASE HEAD: The erase head pole should be above the edge of a threaded tape by the width of a heavy pencil line. Adjust the three screws indicated to obtain this height.

RECORD HEAD: The record head pole should be above the edge of a threaded tape by the width of a thin pencil line. Adjust the two screws indicated to obtain this height.

IMPORTANT: After completing the height adjustment make certain head surfaces are parallel with tape guide surfaces when viewed from the side.

PLAYBACK HEADS: The reverse playback head pole should be even with the bottom of the tape and the forward play head pole should be even with the top of the tape. Adjust the screws indicated.

NOTE: Refer to the figure below for locating the screws used in the preceding alignments. Azimuth adjustments are given in the section on MEASUREMENT AND ADJUSTMENT -ELECTRICAL-.

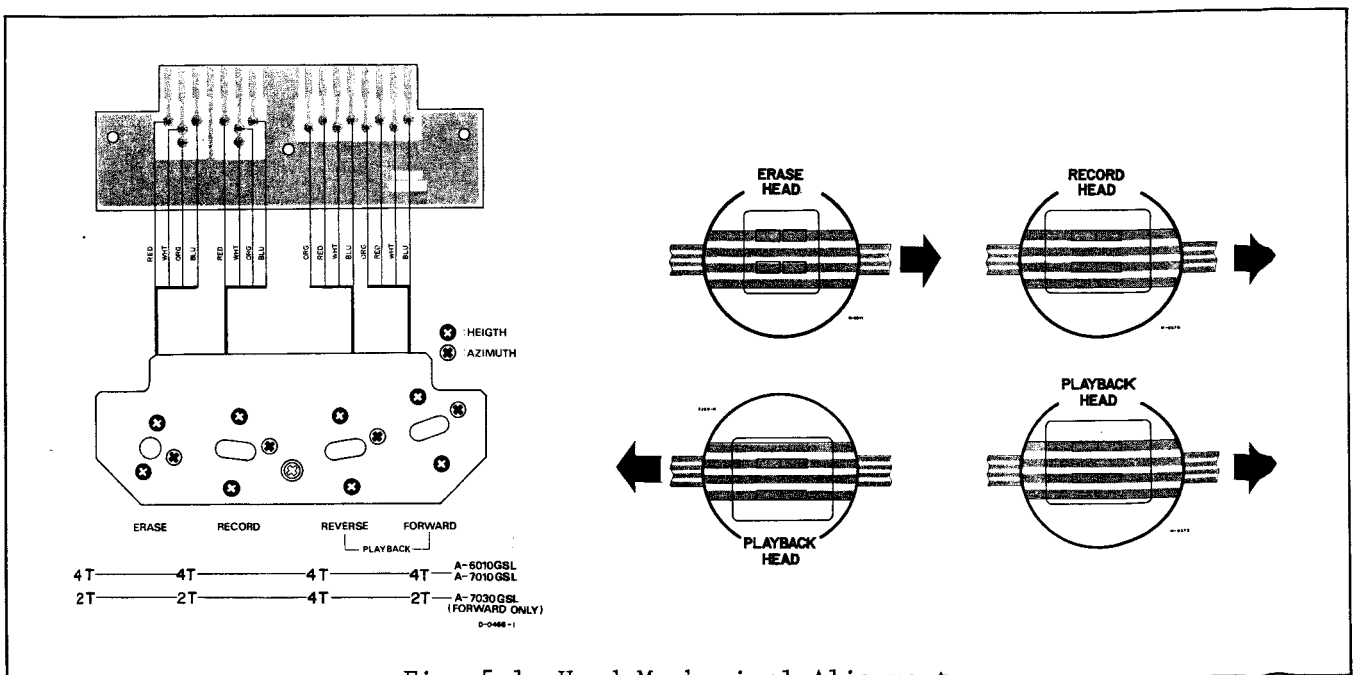
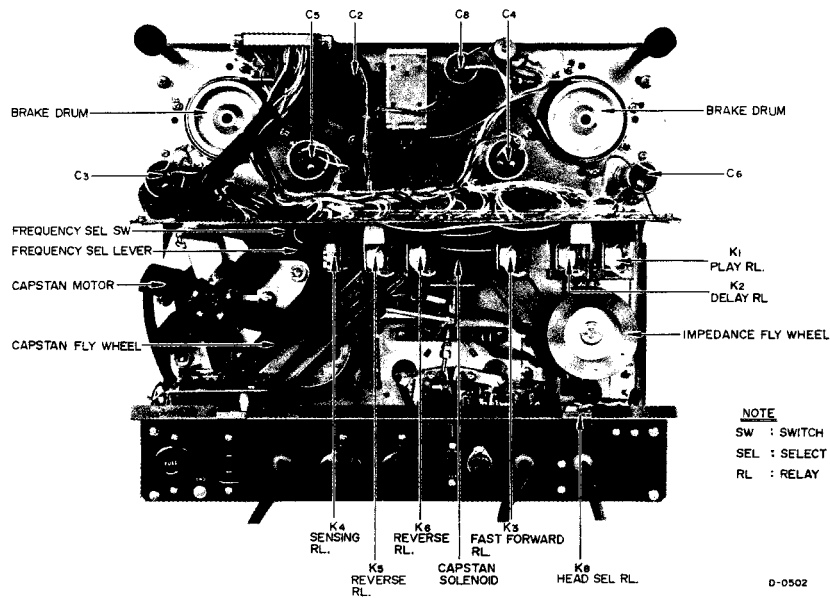


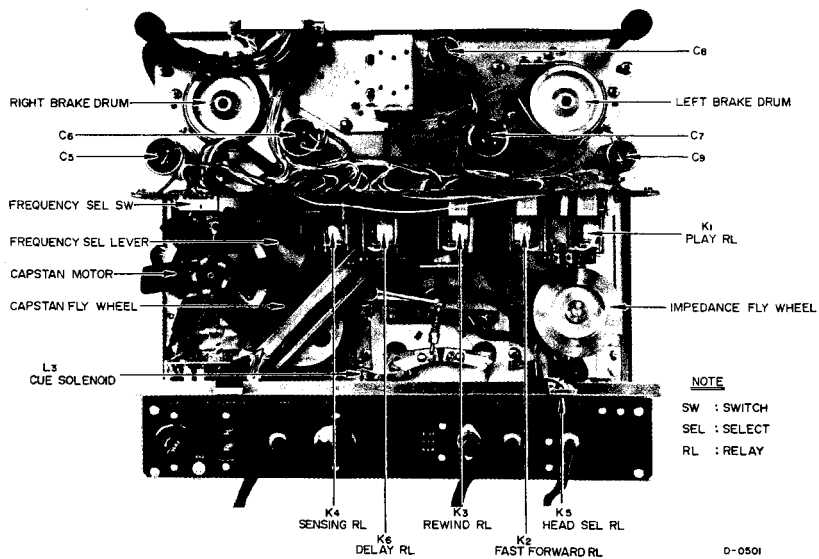
Fig. 5-1 Head Mechanical Alignment

TAPE TRANSPORT PARTS LOCATION

A-7010GSL -REAR-



A-7030GSL -REAR-



6. MEASUREMENT AND ADJUSTMENT -MECHANICAL-

NOTE: The TEAC GSL series tape decks use a highly reliable three motor drive solenoid operated 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.

PINCH ROLLER PRESSURE MEASUREMENT

NOTE: Pinch roller pressure is supplied by pinch roller pressure spring only and it is therefore most important that the solenoid plunger has fully bottomed before taking pressure measurement.

- Block the automatic shut-off arm in the ON position.
- Attach a suitable spring scale to the pinch roller shaft.
- Place the unit in the play mode (▶) and holding the scale as illustrated, slowly draw it away from the pinch roller until the roller stops rotating.
- The spring scale should indicate 2.8~3.1kg (6.6~7.2lbs).
- If adjustment is necessary, adjust the double nuts on the capstan solenoid plunger.

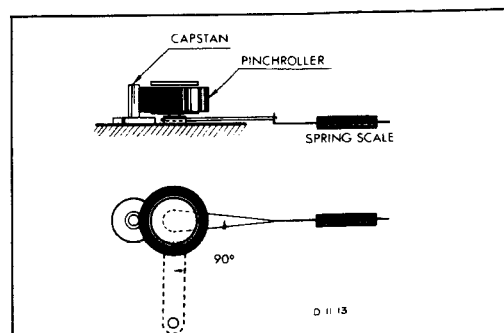


Fig. 6-1 Pressure Measurement



Fig. 6-2 Pressure Adjustment

FLUTTER & TAPE SPEED MEASUREMENT

Flutter and tape speed should be measured in playback mode using a TEAC flutter free tape YTT-2003·2002·2004. Connect test equipment to unit as shown in the figure. 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.

| A-7010GSL | A-7030GSL |
|------------------|------------------|
| 7-1/2ips : 0.06% | 7-1/2ips : 0.06% |
| 3-3/4ips : 0.09% | 15ips : 0.04% |

The tape speed should be measured using TEAC flutter free tape, model YTT-2003·2002. These tapes contain a highly accurate 3 kHz tone. The indicated frequency should be 2985 ~3015 kHz for all speeds, both directions.

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

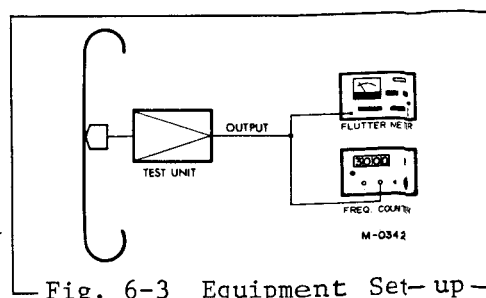


Fig. 6-3 Equipment Set-up

BACK TENSION

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

1. Block the shut-off arm in the ON position.
2. Place REEL SIZE switch to LARGE position.
3. Place an empty RE-701(10cm hub) and spring scale on left reel table.
4. Rotate the reel and wind several turns of string around the hub.
5. Place the unit in the (▶) play mode.
6. Pull the scale away from the reel against the motor torque, with a smooth steady motion.

The spring scale reading

A-7010GSL: 60~66 grams (300~330 g-cm)
A-7030GSL: 80~88 grams (400~440 g-cm)

Adjust slider tab B of R5 resistor.

Reverse Back Tension

The following procedures (step 7~10) apply to the A-7010GSL only.

7. Place the empty reel and spring scale on right reel table.
8. Repeat above procedure steps 1,2,3,4 and 6. Press (◀) play button. .
9. The scale should read 80~86 grams (400~430 g-cm).
10. If proper tension is not present, adjust the slider B of resistor R4.

NOTE: No adjustment is provided for small reel size tension of A-7010GSL. (see partial circuit).

Small Reel Size Back Tension (applies to A-7030GSL only)

11. Set REEL SIZE switch to SMALL position.
12. Repeat steps 3,4,5 and 6 above, the scale should read 30~32grams(150~170g-cm).
13. If adjustment is necessary, adjust slider tab A of resistor R5.

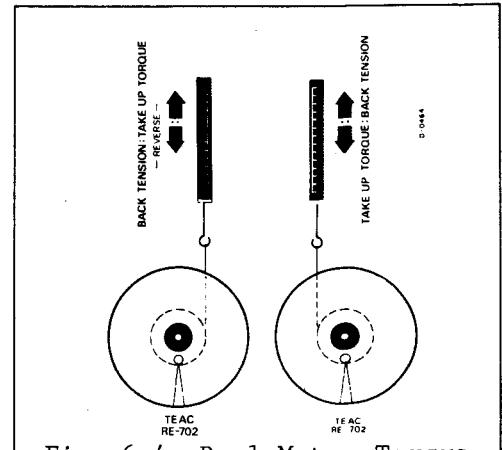


Fig. 6-4 Reel Motor Torque Measurement

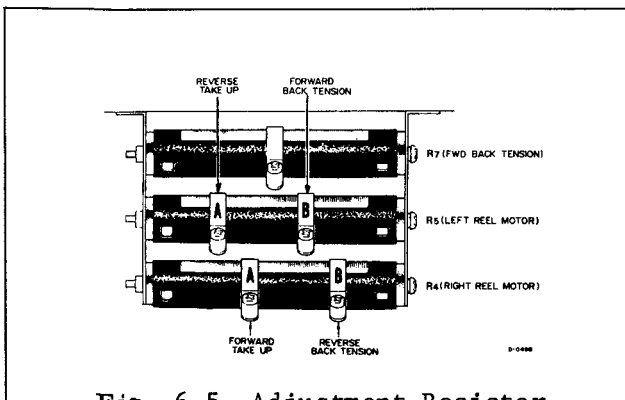


Fig. 6-5 Adjustment Resistor
-A-7010GSL-

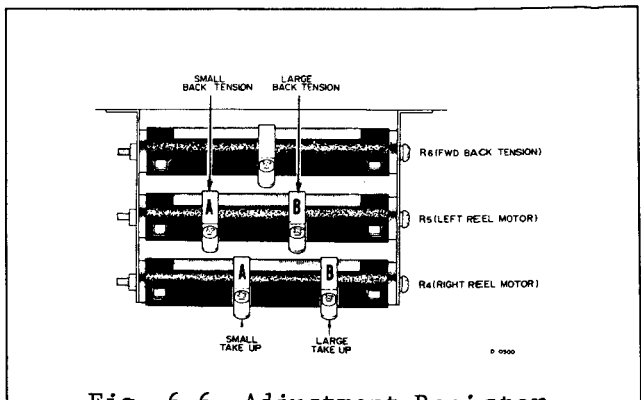


Fig. 6-6 Adjustment Resistor
-A-7030GSL-

TAKE-UP TORQUE MEASUREMENT & ADJUSTMENT

1. Place the empty reel RE-701 and attached spring scale on the right reel table.
2. Set the REEL SIZE switch to LARGE position.
3. Place the unit in the (▶) play mode. Allow the rotation of the reel to slowly draw the scale toward the hub.
4. Hold the spring scale with enough force to allow a steady reading.

A-7010GSL: 160~170 grams (800~850 g-cm)
A-7030GSL: 200~210 grams (1000~1050 g-cm)

5. If adjustment is necessary, A-7010GSL: R4 slider tab A
A-7030GSL: R4 slider tab B

Reverse Take-up Torque

The following steps (6~9) are for the A-7010GSL only.

6. Place the empty reel RE-701 and spring scale on the left reel table.
7. Pressing (◀) play button, and allow the rotation of the reel to slowly draw the scale toward the hub.
8. The spring scale should read 160~170 grams (800~850 g-cm).
9. If torque is incorrect, adjust R5 resistor slider tab A.

NOTE: Small reel size torque of A-7010GSL, no adjustment is provided.

Small Reel Size Take-up Torque (applies to A-7030GSL only)

10. Set REEL SIZE switch to SMALL position.
11. Repeat steps 3, 4 above. The scale should read 80~86grams (400~430g-cm).
If adjustment is necessary, slider tab B of R4 should be adjusted.

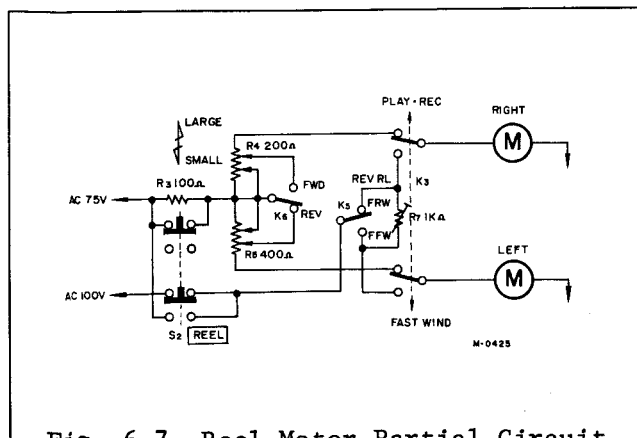


Fig. 6-7 Reel Motor Partial Circuit
-A-7010GSL-

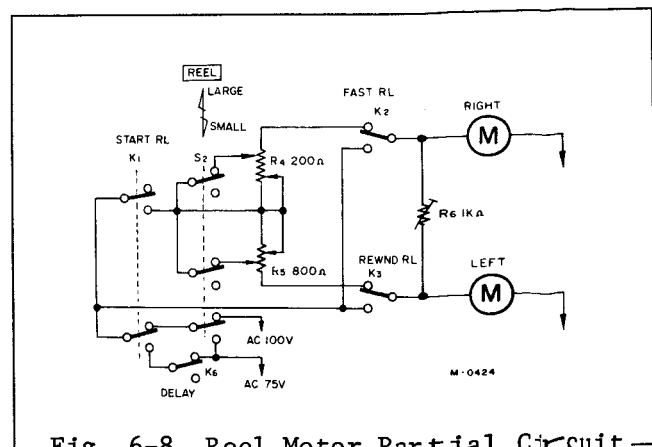
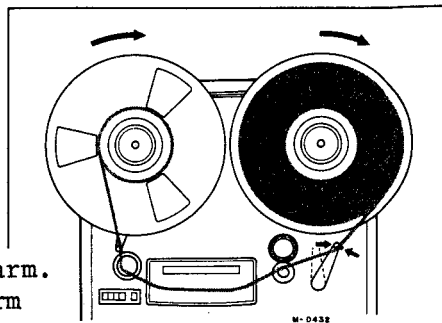


Fig. 6-8 Reel Motor Partial Circuit
-A-7030GSL-

FAST WIND BACK TENSION

1. Load a full 3600 feet 10" reel of tape on the right reel table and an empty reel on left reel table and set the REEL SIZE switch to LARGE position.
2. Depress the (◀) and the FAST button simultaneously.
3. At this time observe the right tension arm. Adjust R7 (R6: A-7030GSL) so that the arm moves approximately 1" to the right and remains there.
4. Interchange the both reels, full reel on the right and empty reel on the left reel.
5. Repeat above step 2, the full reel should start rotating quickly and smoothly.
6. Repeat above procedure until the desired results are obtained.



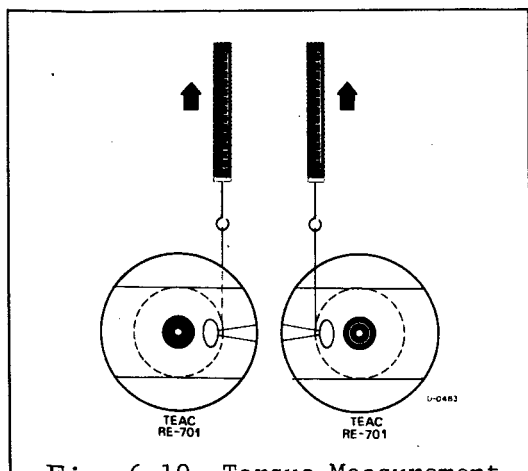
—Fig. 6-9 Fast Wind Check—

BRAKE TORQUE MEASUREMENT & ADJUSTMENT

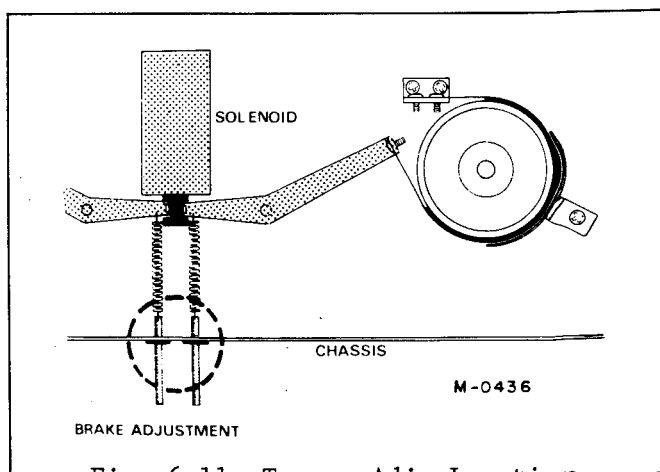
Brake adjustments are made with no power applied to the unit.

1. Place an empty 10cm(4") hub reel and spring scale on left reel table.
2. Wind several turns of string counter clockwise around the hub.
3. Pull the spring scale away from the reel. 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 350~370 grams (1800 g-cm \pm 50 g-cm).
5. If adjustment is required, adjust the adjustable nut attached to the brake spring bolt for the proper brake torque.
6. To check and adjust the right reel brake repeat all steps as described for left reel with the exception that all directions of rotation are clockwise.

IMPORTANT: The difference in torque between the right and left brake should be kept within 10 grams (50 g-cm).



—Fig. 6-10 Torque Measurement—



—Fig. 6-11 Torque Adj. Location—

7. MEASUREMENT AND ADJUSTMENT -ELECTRICAL-

GENERAL NOTICE

Before performing any maintenance on this unit, all metal parts that the tape will come into contact with must be cleaned and demagnetized.

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

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 7-1/2ips. The same procedures are to be applied to the right channel and the other tape speeds.

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

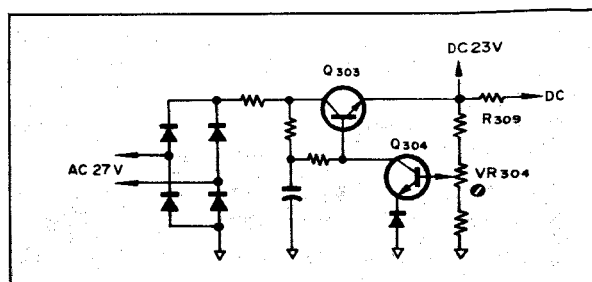
Double designated symbol numbers refer to left channel/right channel.

THD: Third harmonic distortion.

Value of "dB" in the test refer to 0 dB=0.775V, except where specified. If a Level Meter or an AC VTVM calibrated to 0 dB=1V is to be used, appropriate compensation should be made.

POWER SUPPLY CIRCUIT CHECK

Measure DC voltage of rectifier circuit at R-309 for approximately 23 volts. If proper voltage is not present, adjust VR-304.



PLAYBACK PERFORMANCE

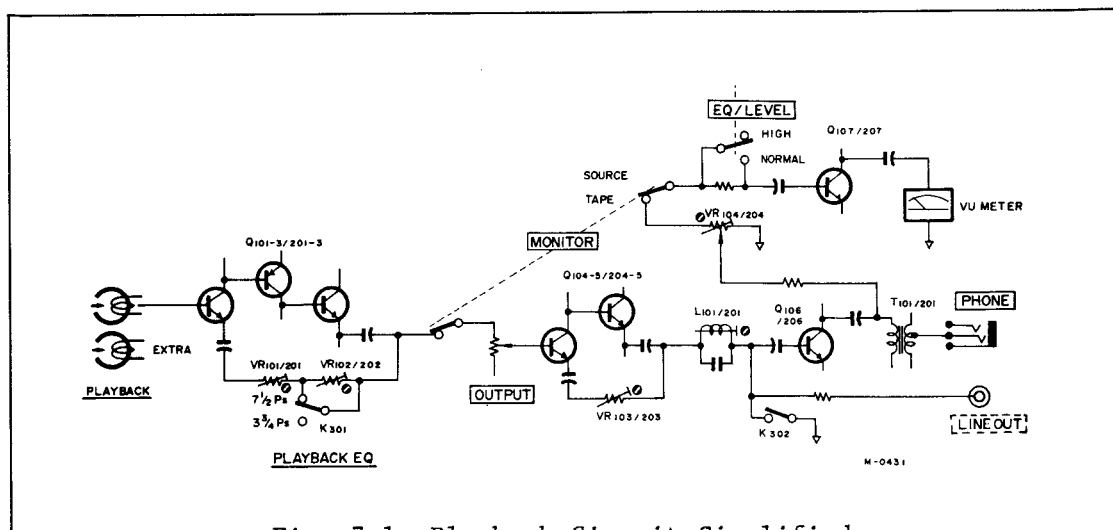


Fig. 7-1 Playback Circuit Simplified

PLAYBACK HEAD AZIMUTH ADJUSTMENT

Coarse Adjustment

1. Connect the test set to either LINE OUT jack.
2. Thread a TEAC test tape YTT-1003 on the unit with MONITOR switch to TAPE position.
3. Depress forward button (▶) and play the 15 kHz test tone in section 2 of the test tape.
4. Slowly rotate the azimuth screw (forward) until maximum indication is indicated 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 MECHANICAL ALIGNMENT readjustments should be accomplished. (See section

Fine Adjustment

CAUTION: Do not make large corrections during fine adjustment, turn the screw 1/4 of a revolution 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. 7-2.
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 azimuth adjustment screw with LOCTITE and apply the above procedure to the remaining playback head.

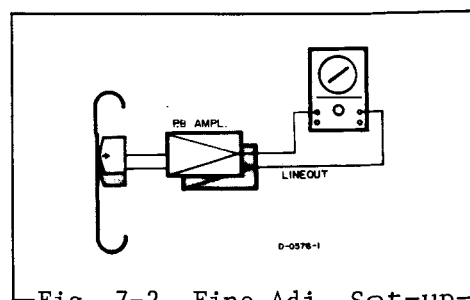


Fig. 7-2 Fine Adj. Set-up

SPECIFIED OUTPUT LEVEL SET

IMPORTANT: Unless otherwise specified, the EQ/LEVEL switch must always be in the HIGH position during measurement and adjustment.

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).
10. Turn the OUTPUT controls fully clockwise, and adjust VR-103/203 for -2 dB reading on the test set.
11. Then turn OUTPUT controls (C.C.W.) until a -8 dB reading is obtained on the test set. If equal VU meter reading cannot be obtained with both OUTPUT controls at 2 o'clock, readjust VR-103/203 slightly.

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

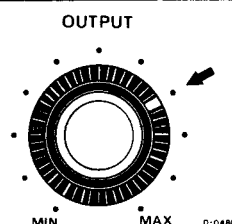


Fig. 7-3 Specified Set Position

VU METER CALIBRATION -PLAYBACK-

Place the EQ/LEVEL switch to the NORMAL position.

12. While playing the 400 Hz tone (1% THD) in section 1 of the test tape, adjust VR-104/204 for a reading of 0 VU on the VU meter.

HIGH level check: While playing back 400 Hz (operating reference level) signal, move the EQ/LEVEL switch from NORMAL to HIGH position. The VU meter should decrease 3 dB. This is a performance check only. After checking, keep the EQ/LEVEL switch in the HIGH position.

FREQUENCY RESPONSE AND THE PLAYBACK EQUALIZATION ADJUSTMENT

13. Play section 3 of TEAC Test Tape YTT-1003 at 7-1/2ips (which was recorded at 10 dB below the operating reference level).
On the A-7030GSL, Use YTT-1004 at 15ips.
14. Compare the readings with the response limits given in fig. 7-4.
15. Adjust the equalization trimmer resistors VR-101/201 to obtain the flattest possible response within ± 2 dB limits between 7.5 kHz and 10 kHz. *On the A-7030GSL, within from 7.5 kHz to 20 kHz.*
16. Play section 3 of TEAC Test Tape YTT-1002 at 3-3/4ips. (A-7010GSL only)
17. Compare the readings with the response limits given in fig. 7-4.
18. Adjust the equalization trimmer resistors VR-102/202 to obtain the flattest possible response within ± 2 dB limits between 7.5 kHz and 10 kHz.

NOTE: During reverse play, the readings should be almost identical with forward play. However, do not make any adjustments of the trimmers during reverse play (A-7010GSL only).

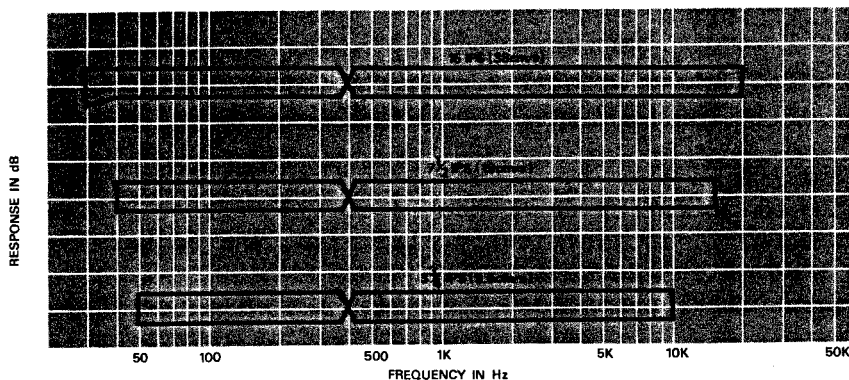


Fig. 7-4 Frequency Response Limits -Playback-

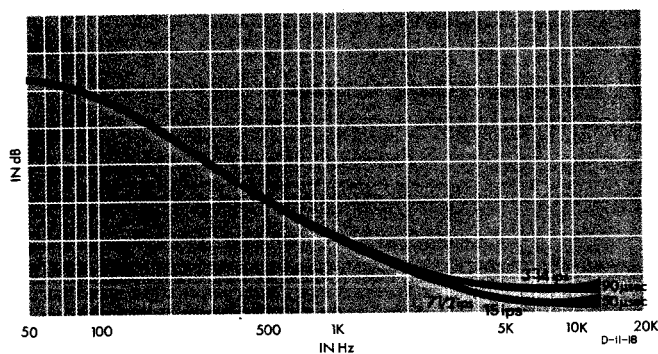


Fig. 7-5 Equalization Curves -Playback-

SIGNAL TO NOISE RATIO CHECK

NOTE: Values given are obtained using an unweighted level meter while the supply and take-up motors have voltage applied but are not rotating. The OUTPUT control should be at specified output position.

1. Thread a tape on the unit, leaving the tape outside the capstan and pinch roller. Tension arm should be in ON position.
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 as listed below.

A-7030GSL: -56dB/15ips & 7-1/2ips

A-7010GSL: -56dB/7-1/2ips

-54dB/3-3/4ips

For example: -56 dB indicated corresponds to a signal to noise ratio of 48 dB (difference between residual noise -56 dB and the specified output level of -8 dB for 1% THD).

For a 3% THD signal to noise ratio, 6 dB is added, giving 54 dB (3% THD is 6 dB above 1% THD level).

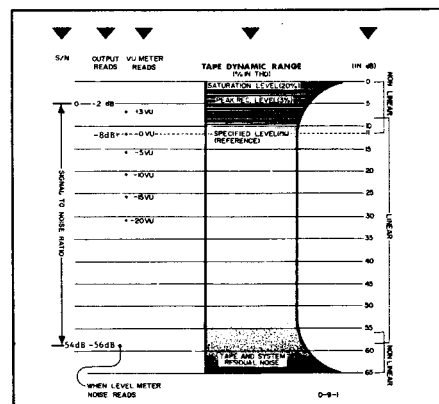


Fig. 7-6 Signal & Noise Computation

MONITOR AND RECORD PERFORMANCE

MINIMUM INPUT LEVEL ADJUSTMENT

IMPORTANT: The EQ/LEVEL switch must be in HIGH position.

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-105/205 to obtain the specified output level of -8 dB at LINE OUT jacks.

MIC Input

5. After adjusting VR-105/205, 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 counter clockwise 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. Turn the LINE controls (c.c.w.) until a -8 dB reading is obtained on the level meter.

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 indicated on the level meter. If it is not within limits, VR-105/205 must be readjusted.

VU METER CALIBRATION -MONITOR-

10. With the same 400 Hz signal at -8 dB applied and the MONITOR switch in SOURCE, adjust VR-106/206 for 0 VU on the VU meters.

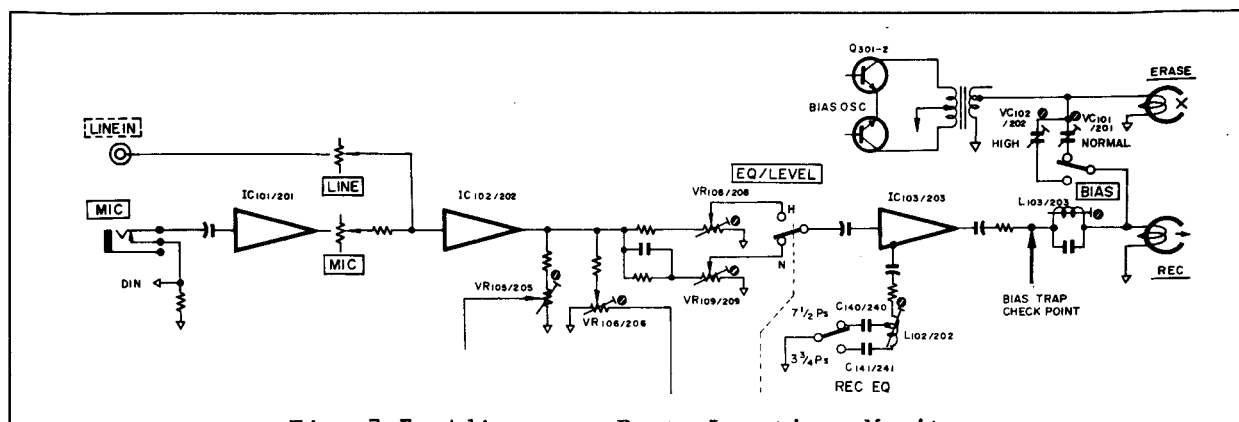


Fig. 7-7 Adjustment Parts Location -Monitor-

RECORD HEAD AZIMUTH ADJUSTMENT

Coarse Adjustment

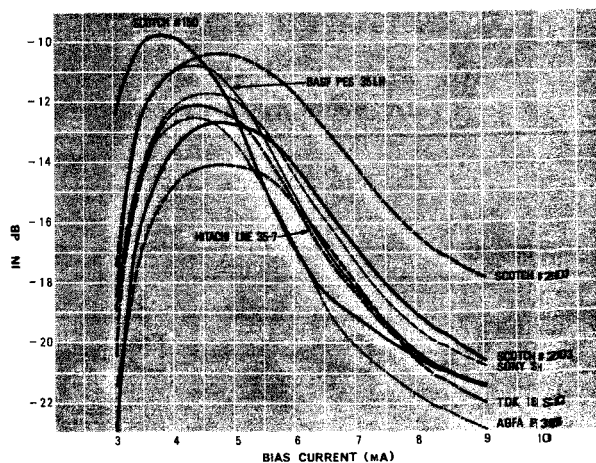
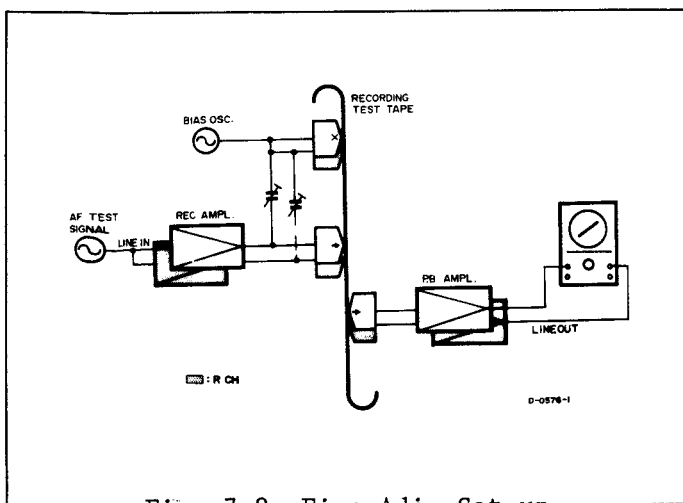
NOTE: The effect of turning the azimuth screw will not immediately register on the level meter. A slight delay will be noticed. Therefore, rotate the screw slightly, and then pause to see the effect on the level meter.

1. Connect a Level Meter to the LINE OUT 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 and place the unit in the record mode.
5. Change the MONITOR switch to the TAPE position.
6. Adjust the azimuth screw for maximum indication of the test set 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 figure below.
8. Apply a 7.5 kHz signal at -23 dB to the LINE IN jacks and record this signal.
9. While recording carefully adjust the azimuth screw until the oscilloscope shows the signals to be in phase.
10. Secure the screw with a drop of LOCTITE.



RECORD AMPLIFIER PERFORMANCE

IMPORTANT: Before making any adjustments on the record amplifier, be sure that all tests in the MECHANICAL 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) depends upon tape characteristics. The TEAC A-7010GSL/7030GSL is factory preferred set for Scotch type 203 tape. Service data is based upon the use of Scotch 203 or a close equivalent tape.

BIAS TRAP ADJUSTMENT

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 LINE OUT jacks.

NOTE: See figure for the location of these adjustments.

1. Thread a blank tape or block tension arm in ON position.
2. Place the MODE L·R switches up.
3. Place the BIAS switch to HIGH and place the unit in the record mode. Place the EQ/LEVEL switch in the HIGH position.
4. Connect a VTVM to the junction of L-103/203, R-145/245 and adjust L-103/203 for a min. reading.
5. Connect a VTVM to the LINE OUT jack. Adjust L-101/201 for a min. reading on the VTVM or oscilloscope.

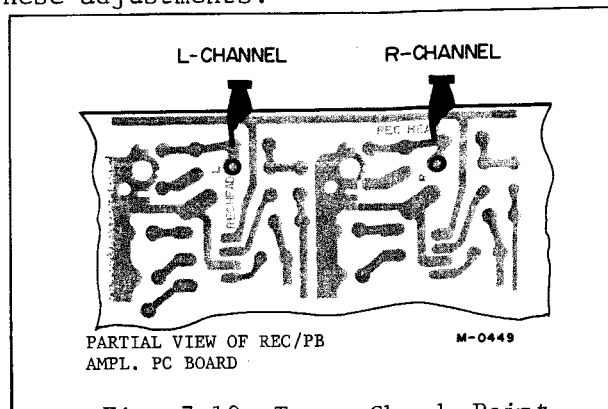


Fig. 7-10 Traps Check Point

BIAS ADJUSTMENT -Adjustments are accessible from the rear panel.

NOTE: These adjustments are only made at 7-1/2ips.
The bias oscillator frequency is 100 kHz (± 10 kHz).

HIGH bias position

1. Thread Scotch 203 recording test tape onto the unit.
2. Place the BIAS EQ/LEVEL switch to HIGH, the MONITOR switch to TAPE. Place the unit in the record mode.
3. With the level meter connected to the LINE OUT jacks, adjust capacitors VC-102/202 for a peak reading in each channel.
4. Then retard the capacitors clockwise until a decrease of 0.5 dB is indicated.

NORMAL bias position

5. Thread a Scotch 150 recording test tape onto the unit.
6. Change the BIAS switch to NORMAL and place the unit in the record mode. Adjust as above with VC-101/201.

RECORD LEVEL SET - Adjustments are accessible from the rear panel.

HIGH position

7. The OUTPUT and LINE controls must be at the specified level position.
8. Apply a 400 Hz signal at -8 dB to the LINE IN jacks.
9. Thread record test tape Scotch 203 on the unit, then set the BIAS and EQ/LEVEL switch to HIGH position.
10. Place the unit in the stereo record mode with the MONITOR switch in the TAPE position.
11. While recording this signal on the Scotch 203 record test tape, adjust VR-109/209 for a reading of 0 VU on the VU meters (-8 dB at the OUTPUT jacks).

NOTE: REC level VR-109/209, 108/208 and VU meter calibration VR-106/206 will interact; after adjusting REC level, recheck VR-106/206 to ascertain that it is still correct.

NORMAL position:

12. Thread record Scotch 150 tape on the unit, then set the BIAS and EQ/LEVEL switch to NORMAL position.
13. Repeat step 7 and 8 above, and record this signal on the tape.
14. Adjust VR-108/208 for a reading of 0 VU on the VU meters.
15. After this adjustment, return the BIAS and EQ/LEVEL switch to HIGH position.

LEVEL VARIATION CHECK

Using TEAC M-826A level meter and Scotch 203 test tape, recording at the specified level setting with BIAS control in HIGH position, the output level variations should not exceed those shown in the chart below.

| | | |
|-----------|-----------|------------------|
| A-7010GSL | 7-1/2ips: | 0.5 dB at 400 Hz |
| | | 1.0 dB at 15 kHz |
| | 3-3/4ips: | 1.0 dB at 10 kHz |
| A-7030GSL | 15ips: | 1.0 dB at 20 kHz |
| | 7-1/2ips: | 1.0 dB at 15 kHz |
| | | 0.5 dB at 400 Hz |

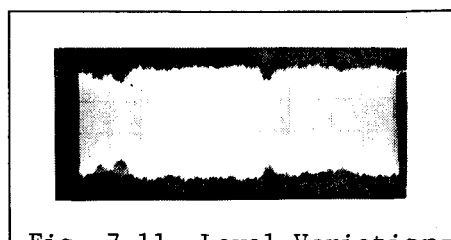


Fig. 7-11 Level Variation Wave Form

OVERALL FREQUENCY RESPONSE AND THE RECORDING EQUALIZATION ADJUSTMENT

IMPORTANT: To avoid saturation of the tape, these checks should be made at least 15 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.

1. With the MONITOR switch at TAPE, and the OUTPUT and LINE controls at their specified level position:
2. Place BIAS,EO/LEVEL switch in HIGH position, thread Scotch 203 record test tape on the unit.
3. Record test signals(approximately 30 seconds each)of a variety of frequencies: 50, 100, 250, 400Hz; 1, 2.5, 5, 7.5, 10, 15, 20 kHz at 7-1/2ips or 15ips.
4. Repeat step 3 at 3-3/4ips with frequencies from 40 Hz to 10 kHz.
5. Compare the outputs with the frequency response chart in figure. The level variation should not exceed ± 0.5 dB at the 400 Hz reference point, ± 1.5 dB at 15 kHz. At 3-3/4ips, you may see up to ± 2 dB at 10 kHz.
6. If adjustment is required, adjust L-102/202 at 7-1/2ips (on the A-7030GSL, 15ips). If the coil adjustments do not bring the response within limits, then adjust C-140/240 at 7-1/2ips (on the A-7030GSL, 15ips), and C-141/241 at 3-3/4ips (on the A-7030GSL, 7-1/2ips). Make these adjustments so that you obtain the most level response across the spectrum in reference to 400 Hz.
7. Repeat steps 3, 4 and 5 with Scotch 150 tape and set the BIAS switch to NORMAL position. Response should be flat as shown before the dotted portion of the chart.

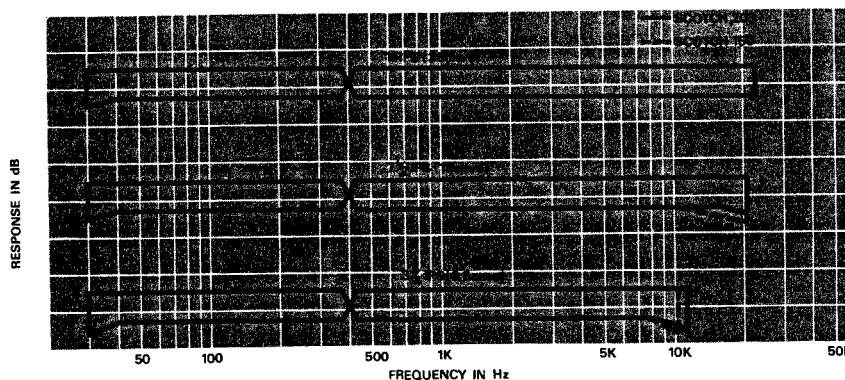


Fig. 7-12 Frequency Response Limits -Record-

OVERALL SIGNAL TO NOISE RATIO

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 unaltered.

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.

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 test set level meter should be as indicated in the chart below.

NOTE: Bias, erase and playback amplifier noise are all included in this measurement. All frequencies between 40 Hz and 20 kHz are measured unweighted.

| MODEL | TAPE SPEED | LEVEL METER READING |
|-----------|------------|---------------------|
| A-7010GSL | 3-3/4ips | -46dB or less |
| | 7-1/2ips | -48dB or less |
| A-7030GSL | 7-1/2ips | -48dB or less |
| | 15ips | -56dB or less |

ERASE EFFICIENCY CHECK

NOTE: To measure erase efficiency, a 1 kHz band pass filter (TEAC M204 CL filter) must be used.

Due to the high level of this signal, it is recommended that only a short recording be made (approximately 20 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 with no signal applied.
5. Rewind the tape to the starting point. Connect the band pass filter to the LINE OUT jacks. Connect the test set leads to the filter.
6. Play the erased portion of the tape.
7. The level meter should indicate -70 dB or more on each channel.

SPECIAL CIRCUIT

PHASE SENSING CIRCUIT SYSTEM A-7010GSL only

The phase sensing reverse utilizes a separate amplifier located on the bottom of the A-7010GSL transport section.

When the SIGNAL RECORD and (►) buttons are depressed, the AC line frequency (50 or 60 Hz) signal is recorded on the tape at a level of approximately +4~10 dB. This signal, however, is recorded out of phase between the left and right channels since one of the record head poles is electrically reversed during this mode. During playback with the AUTO REVERSE switch ON position, the record heads act as the sensing device and are connected out of phase as they were during the recording of the reversing signal.

Because the heads are now out of phase in respect to the normal audio signals they generate very little or no output since the signals tend to cancel each other out. However, when the previously recorded, out of phase, reversing signal reaches the recording head it is now in phase in respect to the record head and generates a signal which is amplified, rectified and utilized to energize the reverse relay.

It is feasible that a strong signal with no counterpart on the other channel to cancel it out could cause the recorder to reverse. However, proper adjustment of the reversing amplifier sensitivity control will eliminate this possibility.

It must be understood that the reversing signal is recorded at such a high level that normal signals do not approach this level.

Phase Sensing System Adjustments:

1. Thread a blank tape Scotch 203 on the recorder and set MONITOR switch to TAPE, TAPE SPEED switch to 3-3/4ips.
2. Place the MODE L·R switches in the UP position.
3. Place the AUTO REVERSE switch in the ON position and set VR-1 to full counter clockwise.
4. Depress the SIGNAL RECORD and the (►) button for approximately 2 seconds.
5. Rewind the tape to the start of the recorded signal and press the (►) button.
6. While playing this signal, advance VR-1 until the recorder stops and reverses operation.
7. Rewind the tape once more and check to see if the recorder stops and reverses, then increase the sensitivity of VR-1 slightly.

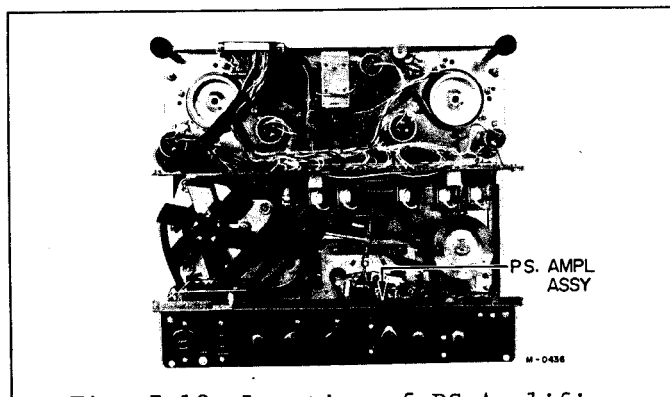


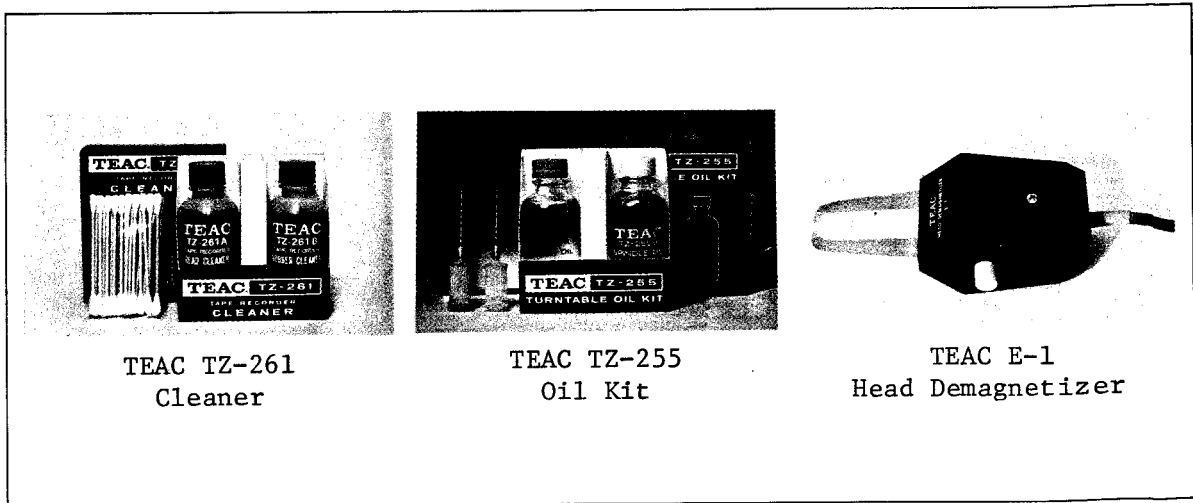
Fig. 7-13 Location of PS Amplifier

8. PREVENTIVE MAINTENANCE

The inner mechanism of the TEAC A-7010GSL/7030GSL is designed to require a minimum of maintenance. However, for optimum operation and long life, frequent cleaning of the tape path, sensing post, tension arm, tape guides, heads, capstan and pinch roller is a necessity. Do not neglect these easy procedures. If possible, they should be done before each recording session and after approximately 50 hours of playback use.

The following maintenance procedures are to be carried out after parts replacement, after extended periods of use or at overhaul. When installing new parts always clean the mechanism thoroughly using the TEAC Cleaning Kit.

TEAC MAINTENANCE EQUIPMENT



TEAC TZ-261
Cleaner

TEAC TZ-255
Oil Kit

TEAC E-1
Head Demagnetizer

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

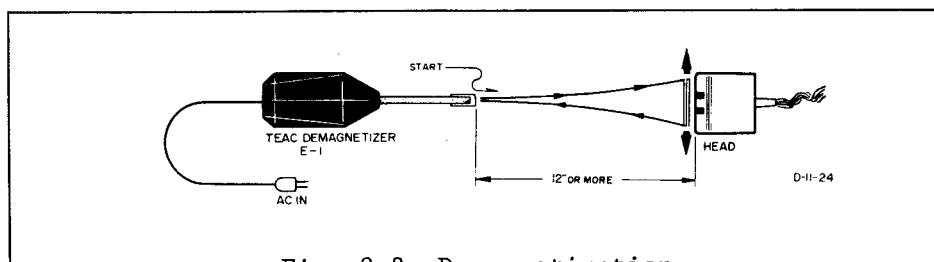
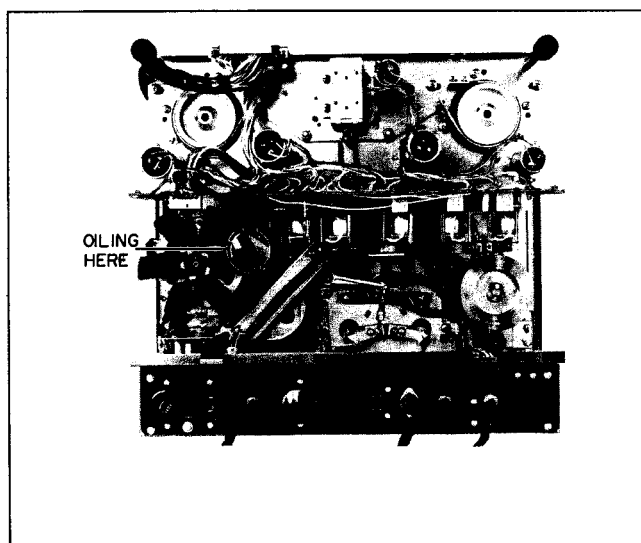


Fig. 8-2 Demagnetization



LUBRICATION: Under normal conditions the unit will not require lubrication. Most of the bearings and bushings are of the oil less 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;

Capstan bushing, pinch roller shaft 1 drop
Capstan motor 2~4 drops in the plastic tubes

NOTE: The reel motor and impedance roller assembly are permanently lubricated with sealed ball bearing and require no lubrication.

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

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.

9. TROUBLE SHOOTING CHART

NOTE: Our investigation into apparent malfunctions for which owners bring their machines into our repair shops has shown that an actual mechanical defect occurs in very few cases. Usually the indicated defect is as a result of improper operation of the machine, improper cleaning or lack of minor maintenance, or inadequate supplementary or associated equipment.

If your unit fails to perform properly, refer to the handbook of operation, clean and lubricate as per the instructions. Carefully check auxiliary or associated equipment before disassembling the machine or bringing it to the repair shop or service center. Close adherence to the maintenance, cleaning, lubricating and demagnetizing procedures outlined in the owners handbook will result in a long service life and optimum performance of your unit.

| MALFUNCTION | POSSIBLE SOURCE | CORRECTIVE PROCEDURE |
|---|--|---|
| Capstan fails to turn. <i>Right tension arm ON position.</i> | Capstan belt off. Line fuse F-2. Shut off SW S-13(S-11) Motor cap. C-3 TAPE SPEED SW S-3 Rev. relay K-9 Capstan assy | Replace belt. Replace fuse. Check shut off SW. Replace capacitor. Check switch S-3. Check contacts. Check capstan shaft. |
| Pinch roller sails to contact capstan shaft in play mode. <i>Depress ► button.</i> | REMOTE cont. jumper plug not installed or loose J-3. STOP SW S-17 (S-15) (K-4-a) PAUSE connector plug not installed or loose. K-3a (K-6d) Capstan solenoid | Secure jumper plug. Check STOP SW. Check relay contacts. Insert PAUSE plug. Check relay contacts. Replace solenoid. NOTE: The normal DC resistance of solenoid is 1.8Ωk . |
| Reel motor doesn't rotate in play mode. | K-1(a,b)K-2c(K-2a,K-3a) (S-2 REEL SW) R4~5 resistors Motor cap. C-4~5(C-6~7) Brake solenoid | Check relay contacts or replace. Check REEL SW. Check R4~5 resistors. Check motor capacitor or replace. NOTE: Normal brake solenoid resistance is 1.1 kΩ. |
| Auto-reverse, stop, rewind and repeat does not function with sensing foil. Will not reverse play (A-7010GSL only) | Sensing foil length too short. Sensing post dirty. REV relay K-5,K-6,K-9 | Foil should be 1/2 inch long. Clean sensing post. Check relay contacts or replace. |
| Pinch roller 4 second delay faulty (A-7010GSL only) | R-10,C-8,K-2 delay relay (R-9,C-9,K-6 delay relay | Check components or replace. |
| Fast forward or rewind mode inoperative. | K-5,K-3(K-2,K-6,K-1) REEL SW S-2 R-7 | Check relay contacts or replace. |

TROUBLE SHOOTING CHART CONTINUED

| MALFUNCTION | POSSIBLE SOURCE | CORRECTIVE PROCEDURE |
|---|---|--|
| Tape speed not normal or excessive wow and flutter. | Capstan belt on wrong pulley steps. Oil on belt, pinch roller. Pinch roller pressure. | Corrective belt step position. Clean belt and flywheel. Check pressure and adjust. |
| Tape damage. | Reel height incorrect. Excessive take-up torque. Brake torque not even. | Check reel height. Check for torque. Check for brake torque or replace the solenoid. |
| No playback | MONITOR SW. OUTPUT control. Playback heads dirty. Play head connector loose or out. Playback ampl. Take (no signal on tape) | Verify SW & controls position. Clean head with TEAC cleaner. Check connection. Check ampl. Change tape. |
| Playback noise or loss of high freq. | Faulty connections. Head relay K-8. Head dirty. Playback EQ. | Reconnection. Check contact or replace. Clean head with TEAC cleaner. Readjust EQ. properly. |
| No record and/or no erase. | Erase, record head dirty. Auto-reverse SW in ON. Record relay K-7. Interconnection cables loose or out. REC ampl. Bias OSC. | Clean head with TEAC cleaner. Make sure SW position. Repair or replace. Check for plug. Check or repair. |
| Loss of high freq. during record. | Head dirty. Back tension. Bias adj. | Clean head with TEAC cleaner. Check bias and readjust properly. |
| Channels not balanced during record. | Head dirty. Bias adj. REC. level calibration. Head alignment. | Clean head with TEAC cleaner. Check bias adjustment. Check REC. CAL. Check head alignment. |
| Channel unbalanced during playback. | Tape faulty. Head dirty. Head alignment. OUTPUT control. VU meter. Playback level calibration. | Change tape. Clean head. Adjust for head alignment. Check for control set position. Check meter sensitivity. Adjust PB calibration. |

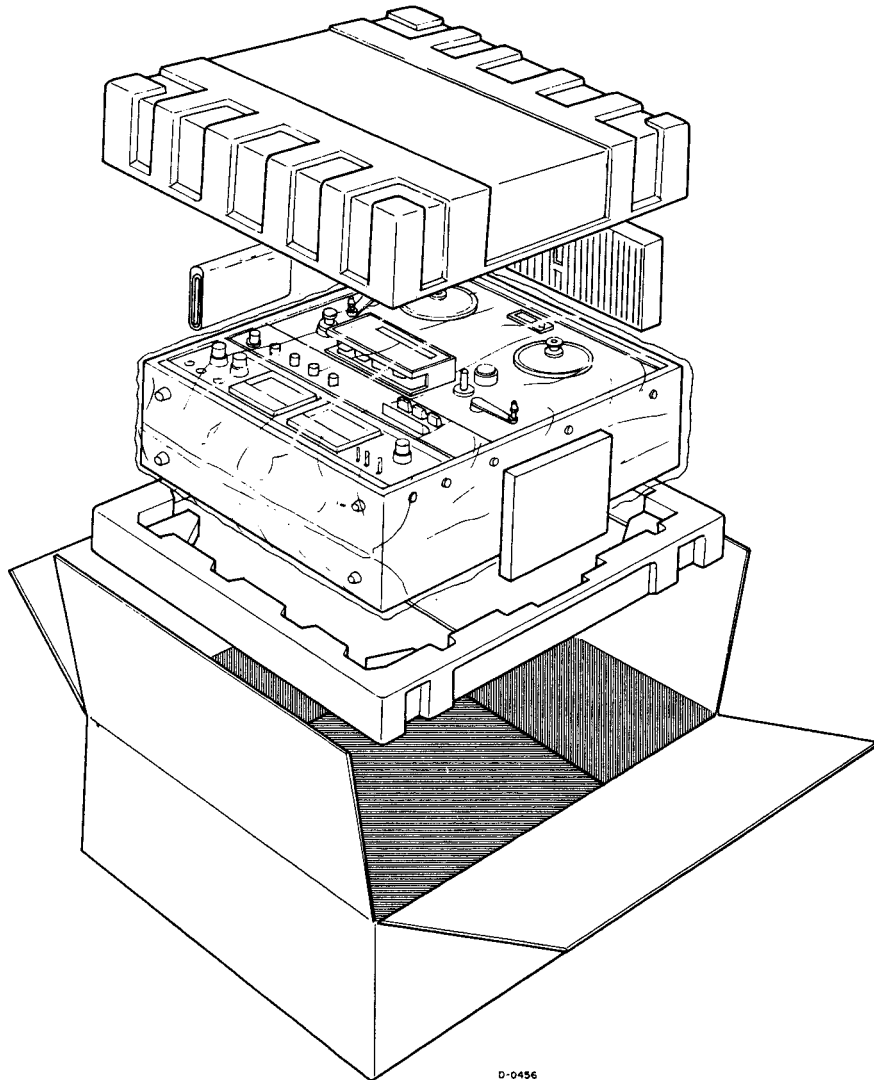
WARRANTY

Your TEAC equipment has been manufactured under strict quality control. Its normal operation is under warranty. However, warranty terms may vary with the country (area) in which it was purchased and for different models of equipment. The warranty terms are fully described on the warranty card. Please read the card for complete details.

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.



D-0456

A-7010 GS

A-7030 GS

TEAC®

A-7010 GSL A-7030 GSL

STEREO TAPE DECK PARTS LIST

REPLACEMENT INFORMATION

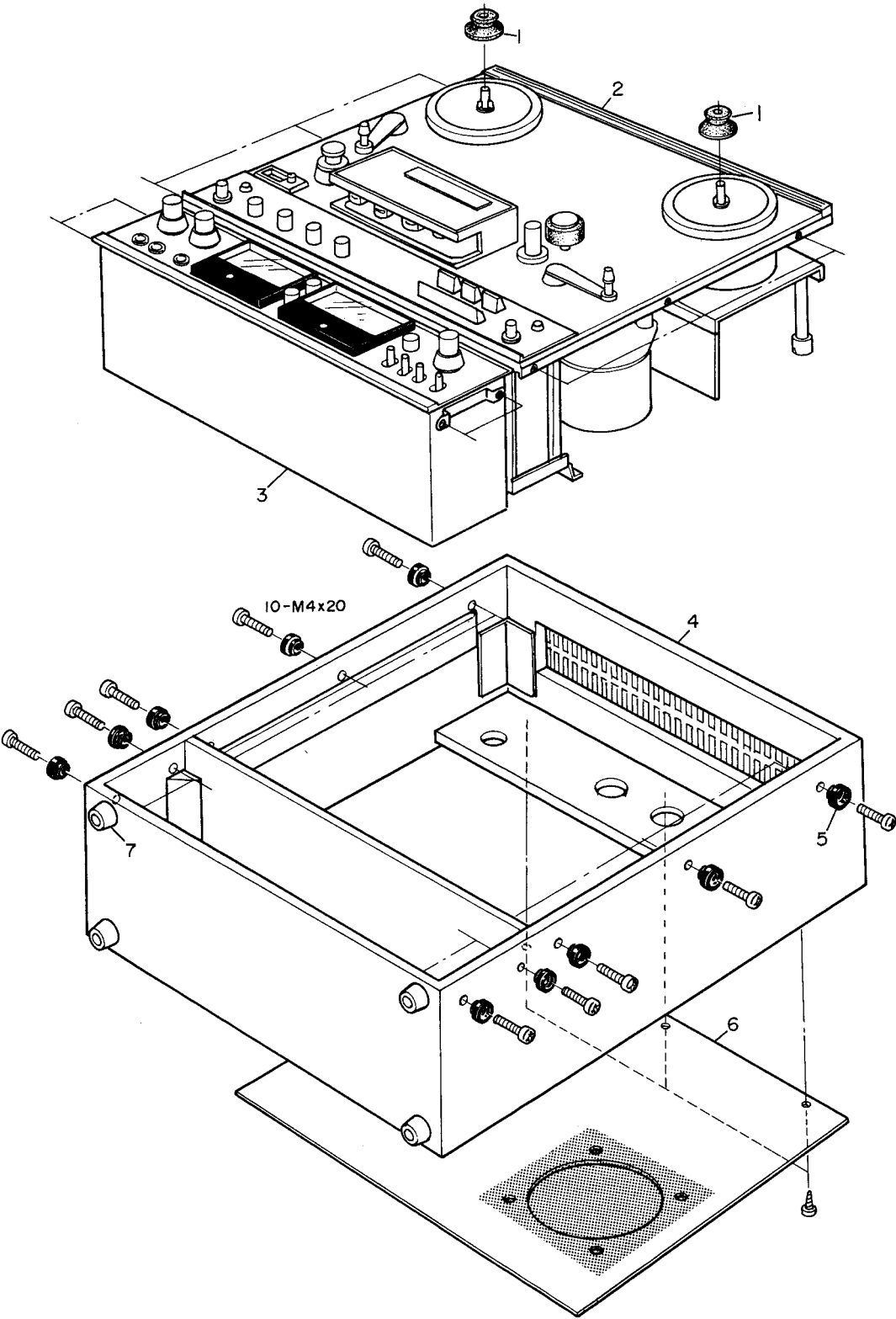
Replacement part are available through your nearest TEAC dealer or directly from the TEAC office.

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

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

| <i>MODEL</i> | <i>SERIAL NO.</i> | <i>REF NO.</i> | <i>PART NO.</i> | <i>DESCRIPTION</i> |
|--------------|-------------------|----------------|-----------------|--------------------|
|--------------|-------------------|----------------|-----------------|--------------------|

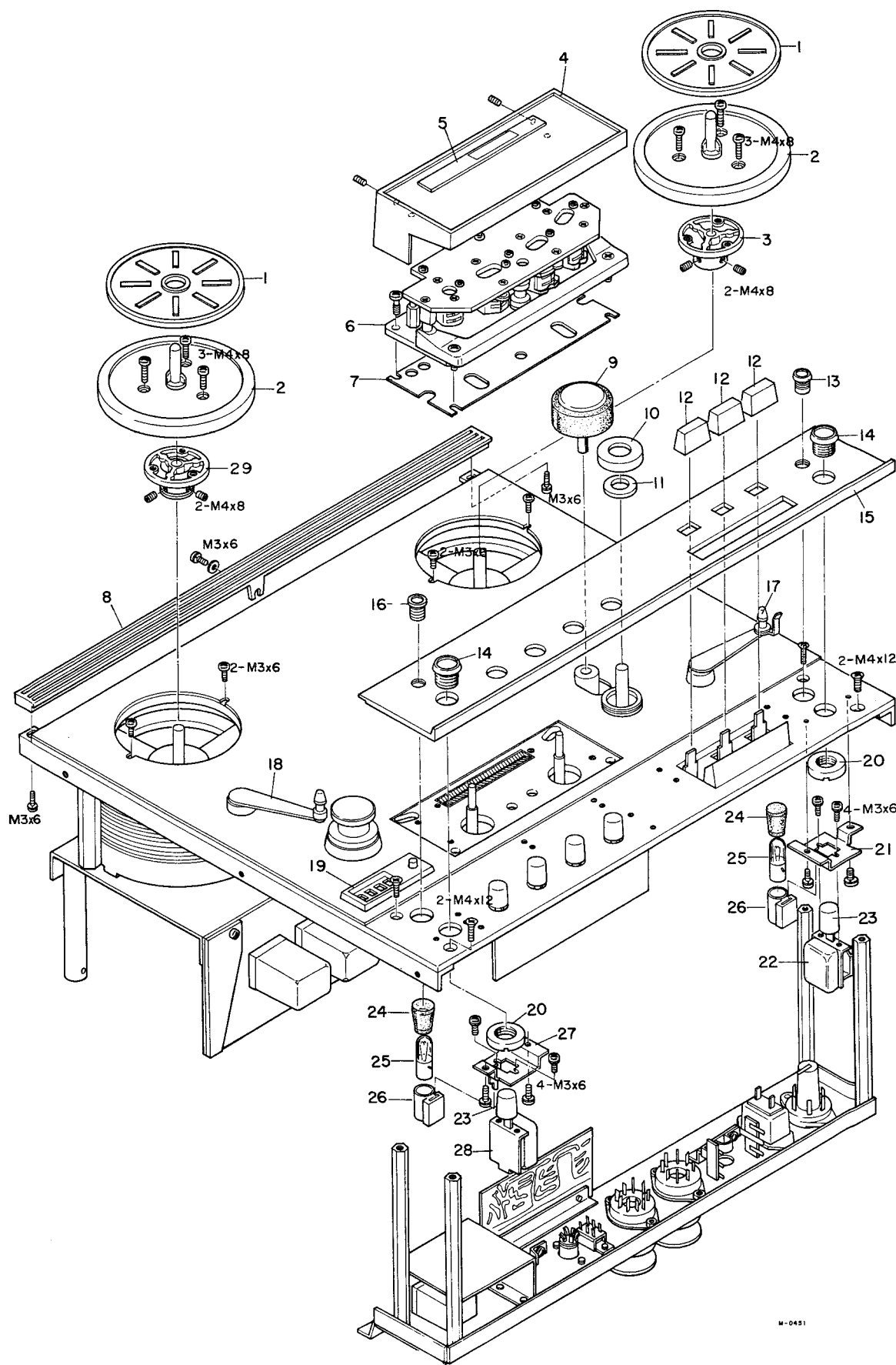
TRIM PARTS



TRIM PARTS

| | | | REVISION | |
|----------|----------------|--------------------------|----------|-----|
| REF. NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| 1-1 | 50161580 | Reel Holder | | |
| 1-2 | | Tape Transport | | |
| 1-3 | | Record/PB Ampl. AR-70GSL | | |
| 1-4 | 50287521 | Case, Wooden | | |
| 1-5 | 50276930 | Washer, Trim | | |
| 1-6 | 50286310 | Cover, Rear | | |
| 1-7 | 50283830 | Mount Foot | | |

ABOVE THE MAIN CHASSIS



ABOVE THE MAIN CHASSIS

| REF. TEAC NO. PARTS NO. DESCRIPTION | | | REVISION | |
|--|----------|---|----------------|--------|
| | | | 1st | 2nd |
| 2- 1 | 50162161 | Mat, Reel Table | * See the NOTE | below. |
| 2- 2 | 50162181 | Reel Table | * See the NOTE | below. |
| 2- 3 | 50162150 | Flange, Reel Table, R | * See the NOTE | below. |
| 2- 4 | 50136390 | Head Housing (except Name Plate) | | |
| 2- 5 | 50136410 | Name Plate, B (A-7010GSL) (DM,EX) | | |
| | 50136450 | Name Plate, E (7010GSL) (TCA only) | | |
| | 50136420 | Name Plate, C (A-7030GSL) (DM,EX) | | |
| | 50136460 | Name Plate, F (7030GSL) (TCA only) | | |
| 2- 6 | 50500760 | Head Assy (for A-7010GSL) | | |
| | | Head Assy (for A-7030GSL) | | |
| 2- 7 | 50133751 | Shield Plate, Head Assy | | |
| 2- 8 | 50112730 | Air Vent | | |
| 2- 9 | 50140260 | Pinch Roller Assy | | |
| 2-10 | 50122863 | Cap, Dust | | |
| 2-11 | 50125010 | Oiler | | |
| 2-12 | 50252271 | Push Button, Control | | |
| 2-13 | 50415181 | Pilot Holder, Record (Red) | | |
| 2-14 | 50253510 | Escutcheon, Push Button | | |
| 2-15 | 50113210 | Panel, Control (A-7010GSL/7010GSL) | | |
| | 50113220 | Panel, Control (A-7030GSL/7030GSL) | | |
| 2-16 | 50415171 | Pilot Holder, Power (Green) | | |
| 2-17 | 50180630 | Right Tension Arm Sub (C) Assy (A-7010GSL) | | |
| | 50180640 | Right Tension Arm Sub (C) Assy (A-7030GSL) | | |
| 2-18 | 50180620 | Left Tension Arm Sub (C) Assy | | |
| 2-19 | 50271810 | Escutcheon, Counter | | |
| 2-20 | 50210470 | Nut, Escutcheon | | |
| 2-21 | 50234770 | Bracket, A (Record SW) | | |
| 2-22 | 50443410 | SW, Push (Record) | | |
| 2-23 | 50252320 | Push Button, A | | |
| 2-24 | 50419070 | Cover, Pilot Lamp | | |
| 2-25 | 50414580 | Pilot Lamp, Bayonet Type (8V) | | |
| 2-26 | 50415250 | Socket, Pilot Lamp | | |
| 2-27 | 50234780 | Bracket, B (Power SW) | | |
| 2-28 | 50444510 | SW, Push (Power) (EX,DM only) | | |
| | 50444500 | SW, Push (Power) (TCA only) | | |
| 2-29 | 50162140 | Flange, Reel Table, L | * See the NOTE | below. |

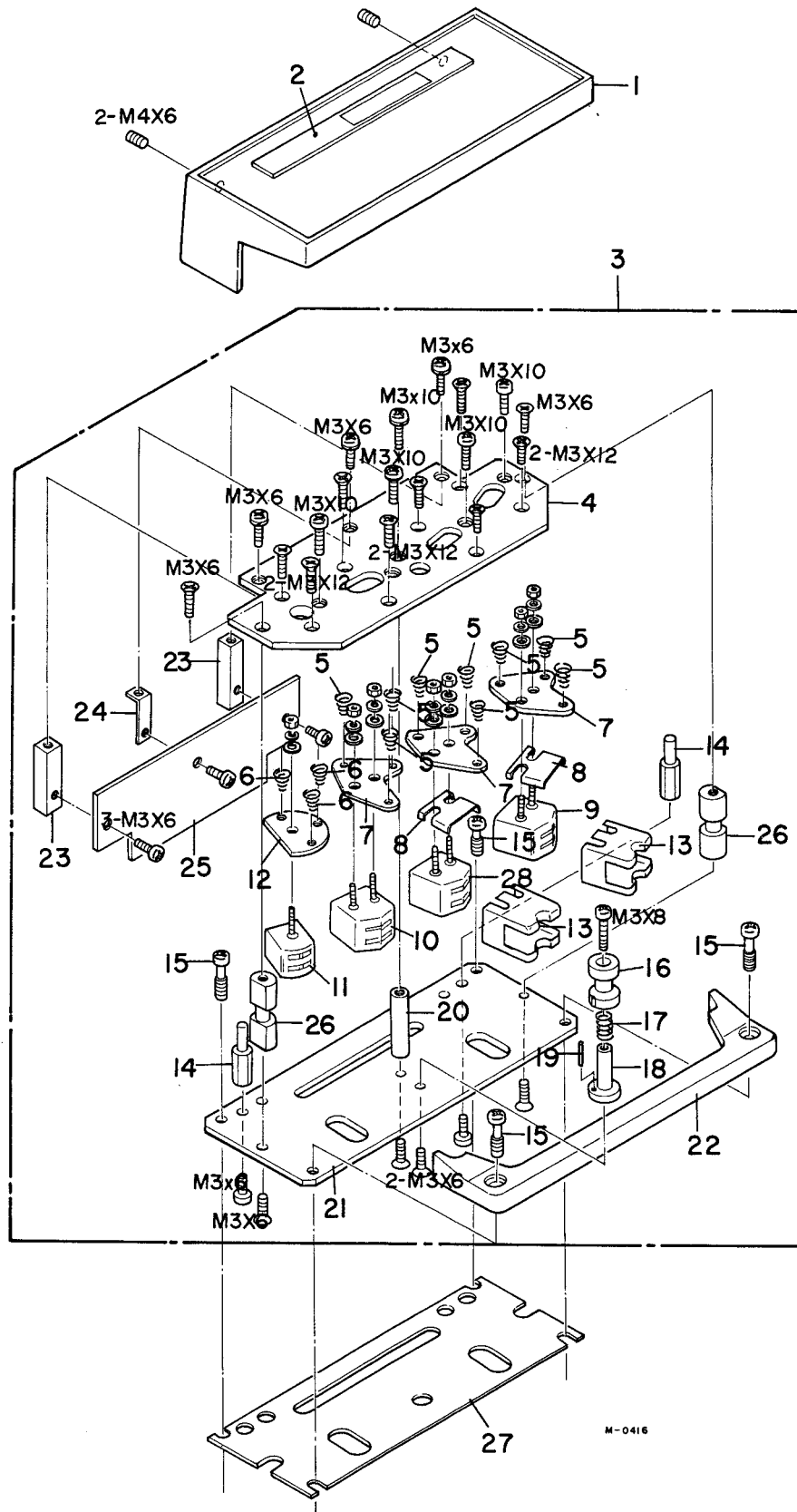
NOTE:

* Asterisk-indicated parts have been replaced by a complete assembly and are only available in the "Quik-Lok" Reel Table Assembly. For any of these parts, order TEAC Part Number 50160421 Reel Table Assy.

This change is applicable from Unit Serial Number 28741 (A-7010GSL) and 26391 (A-7030GSL).

"Quik-Lok" Reel Holder reel tables are standard with later models of this deck and are completely interchangeable with the earlier type illustrated.

HEAD ASSY



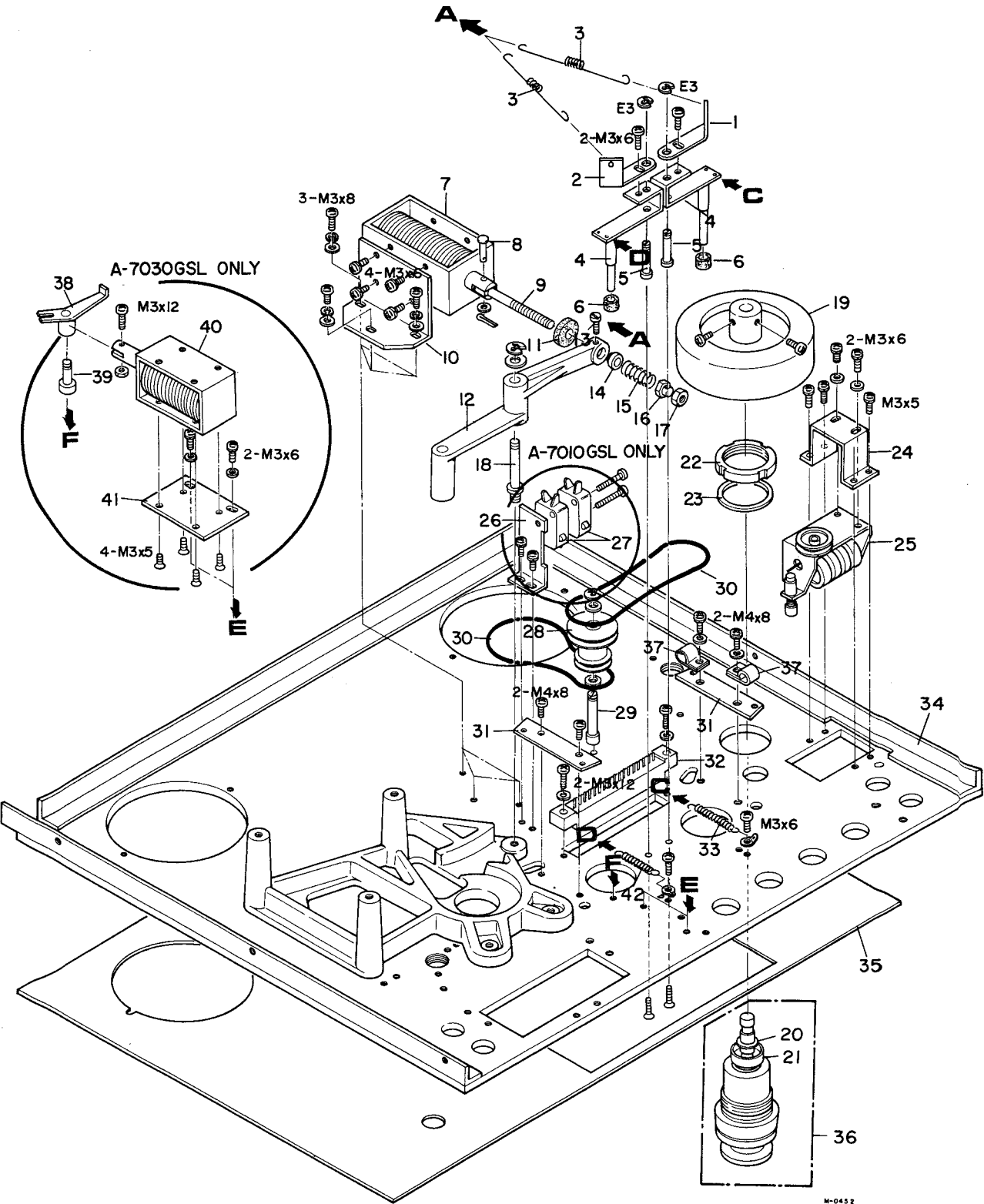
HEAD ASSY

| | | | REVISION | |
|----------|----------------|------------------------------------|----------|-----|
| REF. NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| 3- 1 | 50136390 | Head Housing (except Name Plate) | | |
| 3- 2 | 50136410 | Name Plate, B (A-7010GSL)(DM,EX) | | |
| | 50136450 | Name Plate, E (7010GSL)(TCA only) | | |
| | 50136420 | Name Plate, C (A-7030GSL)(DM,EX) | | |
| | 50136460 | Name Plate, F (7030GSL)(TCA only) | | |
| 3- 3 | 50500760 | Head Assy | | |
| 3- 4 | 50133735 | Plate, Head Base | | |
| 3- 5 | 50220500 | Spring, Head, B | | |
| 3- 6 | 50220470 | Spring, Head, A | | |
| 3- 7 | 50133830 | Plate, Head, C | | |
| 3- 8 | 50675320 | Spacer, PB Head | | |
| 3- 9 | 50667310 | Head, PB (Ferrite) 4T (A-7010GSL) | | |
| | 50666310 | Head, PB (Ferrite) 2T (A-7030GSL) | | |
| 3-10 | 50667200 | Head, Rec.(Ferrite) 4T (A-7010GSL) | | |
| | 50666200 | Head, Rec.(Ferrite) 2T (A-7030GSL) | | |
| 3-11 | 50663030 | Head, Erase 4T (A-7010GSL) | | |
| | 50662030 | Head, Erase 2T (A-7030GSL) | | |
| 3-12 | 50133601 | Plate, Erase Head | | |
| 3-13 | 50675650 | Head Shield, A | | |
| 3-14 | 50133760 | Stand-off, Head Housing | | |
| 3-15 | 50132770 | Screw, Head Assy Mount | | |
| 3-16 | 50132640 | Guide, Tape | | |
| 3-17 | 50220110 | Spring, Tape Guide | | |
| 3-18 | 50132630 | Shaft, Tape Guide | | |
| 3-19 | 50132650 | Pin, Tape Guide | | |
| 3-20 | 50241140 | Stand-off | | |
| 3-21 | 50133741 | Plate, Housing Base | | |
| 3-22 | 50133720 | Lower Head Protector | | |
| 3-23 | 50132610 | Stand-off, Head Assy | | |
| 3-24 | 50132601 | Angle, Head PC Board | | |
| 3-25 | 50483700 | PC Board, Head | | |
| 3-26 | 50133810 | Guide, Tape | | |
| 3-27 | 50133751 | Shield Plate, Head Assy | | |
| 3-28 | 50667310 | Head, PB (Ferrite) 4T | | |

REAR PANEL (TAPE TRANSPORT)

| REF. TEAC NO. PARTS NO. DESCRIPTION | | | REVISION | |
|--|----------|---|----------|-----|
| | | | 1st | 2nd |
| 4- 1 | 50135360 | Shield Plate, Head Relay | | |
| 4- 2 | 50452170 | Terminal Strip, 1L2P | | |
| 4- 3 | 50489280 | PC Board Assy, P.S. Ampl. (Used on A-7010GSL only) | | |
| 4- 4 | 50135351 | Bracket, Head Relay | | |
| 4- 6 | 50611090 | Relay, Head | | |
| 4- 7 | 50444080 | SW, Slide (A-7010GSL only) | | |
| | 50444221 | SW, Slide (A-7030GSL only) | | |
| 4- 8 | 50432350 | Socket, 11P (Female) | | |
| 4-10 | 50276290 | Clamp, Wire, B | | |
| 4-11 | 50411140 | Fuse, 2A | | |
| 4-12 | 50432950 | Outlet, AC | | |
| 4-13 | 50412142 | Voltage Selector, with Fuse | | |
| 4-14 | 50279480 | Clamp, A | | |
| 4-15 | 50279490 | Clamp, B | | |
| 4-16 | 50234921 | Chassis, Connector | | |
| 4-17 | 50113271 | Panel, Plastic Trim (A-7010GSL) | | |
| | 50113261 | Panel, Plastic Trim (A-7030GSL) | | |
| 4-18 | 50452170 | Terminal Strip, 1L2P | | |
| 4-19 | 50454071 | Post, Grounding | | |
| 4-20 | 50323010 | Grommet, Rubber | | |
| 4-21 | 50476800 | Cord, Multiple Cond., B (11P) (A-7010GSL) | | |
| | 50476810 | Cord, Multiple Cond., B (11P) (A-7030GSL) | | |
| 4-22 | 50432520 | Plug, Dummy, 11P (A-7010GSL) | | |
| | 50432510 | Plug, Dummy, 11P (A-7030GSL) | | |
| 4-23 | 50475590 | Cord, Multiple Cond., A (8P) (A-7010GSL) | | |
| | 50475570 | Cord, Multiple Cond., A (8P) (A-7030GSL) | | |
| 4-24 | 50430270 | Receptacle, DIN 6P (Pause) | | |
| 4-25 | 50475610 | Cord, Connection | | |
| 4-26 | 50430260 | Plug, Dummy, 6P (Pause) | | |

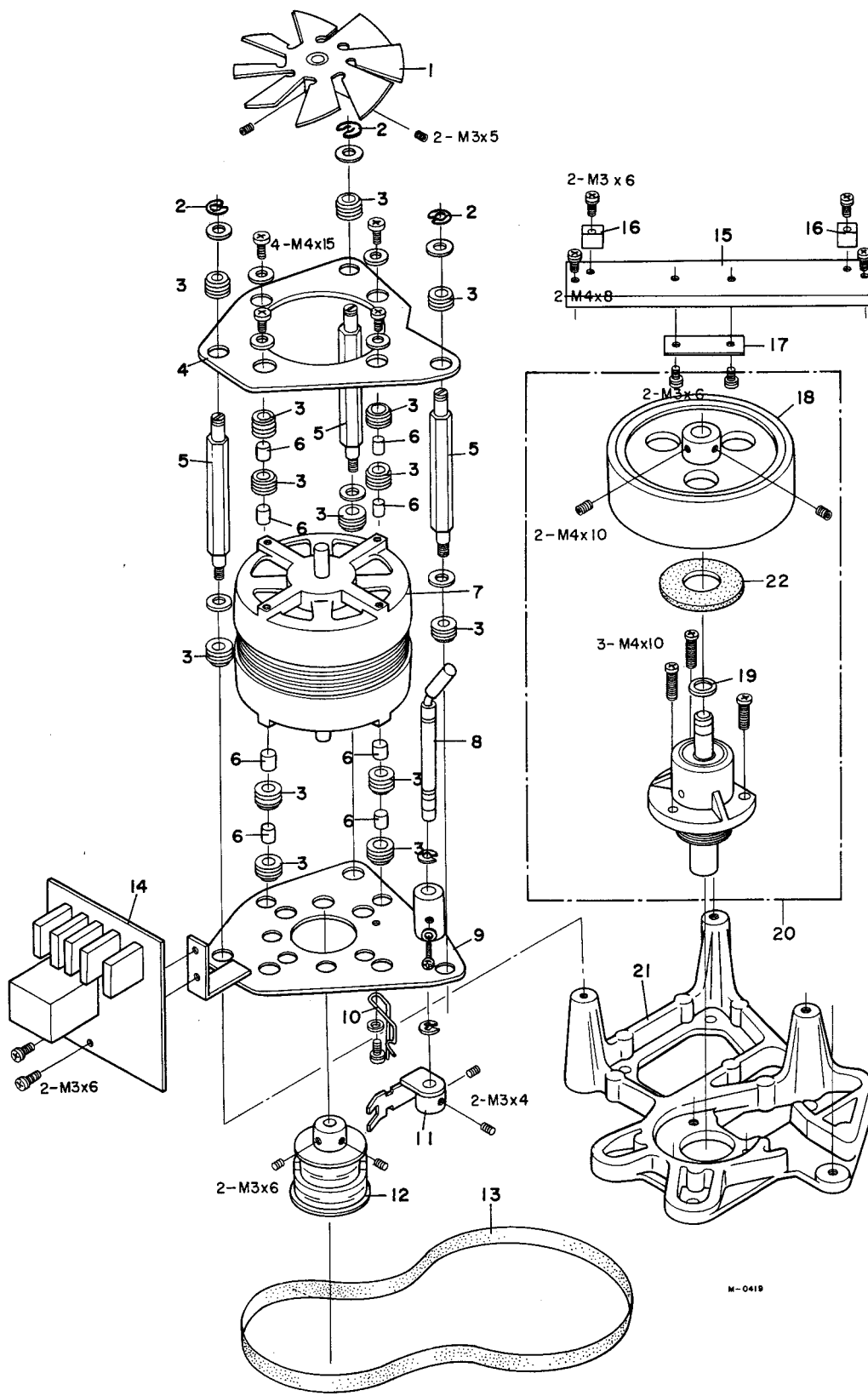
BELOW THE MAIN CHASSIS



BELOW THE MAIN CHASSIS

| REF. TEAC NO. PARTS NO. DESCRIPTION | | | REVISION | |
|--|----------|--------------------------------------|----------|-----|
| | | | 1st | 2nd |
| 5- 1 | 50152520 | Arm, Lifter Lower, L | | |
| 5- 2 | 50152510 | Arm, Lifter Lower, R | | |
| 5- 3 | 50151963 | Spring, Lifter | | |
| 5- 4 | 50150130 | Lifter Arm Assy | | |
| 5- 5 | 50151982 | Shaft, Lifter Arm | | |
| 5- 6 | 50277350 | Ring, Rubber | | |
| 5- 7 | 50616393 | Solenoid, Capstan | | |
| 5- 8 | 50121550 | Pin, Plunger, A | | |
| 5- 9 | 50121530 | Screw, Pressure Adjust | | |
| 5-10 | 50141550 | Plate, Solenoid | | |
| 5-11 | 50271520 | Washer, Felt | | |
| 5-12 | 50141594 | Arm, Pinch Roller | | |
| 5-13 | 50151971 | Screw, Lifter Spring | | |
| 5-14 | 50141581 | Washer | | |
| 5-15 | 50220041 | Spring, Pressure | | |
| 5-16 | 50141501 | Nut, Lock, A | | |
| 5-17 | 50141511 | Nut, Lock, B | | |
| 5-18 | 50141571 | Shaft, Roller Arm | | |
| 5-19 | 50122142 | Flywheel, Impedance Roller | | |
| 5-20 | 50221210 | Washer, Spring | | |
| 5-21 | 50124110 | Washer, Shoulder | | |
| 5-22 | 50121430 | Nut, Collar | | |
| 5-23 | 50121440 | Washer | | |
| 5-24 | 50124290 | Bracket, Counter | | |
| 5-25 | 50585050 | Counter | | |
| 5-26 | 50273142 | Bracket, Micro SW (A-7010GSL only) | | |
| 5-27 | 50446180 | SW, Micro (A-7010GSL only) | | |
| 5-28 | 50125810 | Pulley, Counter Idler | | |
| 5-29 | 50125830 | Shaft, Idler | | |
| 5-30 | 50277590 | Belt, Counter | | |
| 5-31 | 50133770 | Plate, Head Assy | | |
| 5-32 | 50438130 | Connector, 18P | | |
| 5-33 | 50152020 | Spring, Lifter Return | | |
| 5-34 | 50113191 | Panel, Chassis | | |
| 5-35 | 50112780 | Panel, Trim | | |
| 5-36 | 50126231 | Impedance Roller Assy | | |
| 5-37 | 50276280 | Clamp, Wire | | |
| 5-38 | 50152550 | Arm, Cue (A-7030GSL only) | | |
| 5-39 | 50152561 | Shaft, Cue Arm (A-7030GSL only) | | |
| 5-40 | 50616432 | Solenoid, Cue (A-7030GSL only) | | |
| 5-41 | 50616410 | Plate, Cue Solenoid (A-7030GSL only) | | |
| 5-42 | 50152570 | Spring, Lifter Return, A | | |

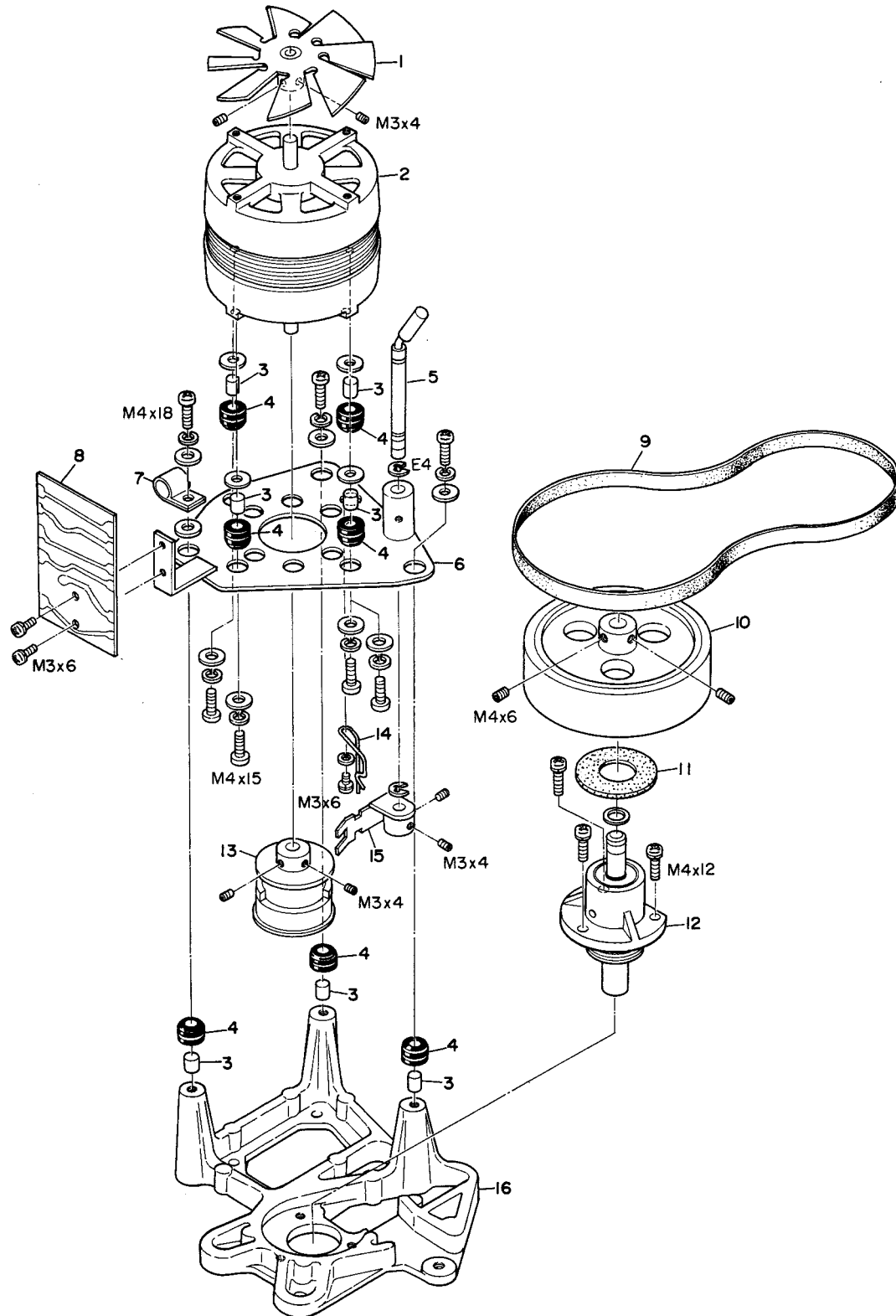
CAPSTAN DRIVE ASSY A-7010 GSL



CAPSTAN DRIVE ASSY **A-7010 GSL**

| REF. TEAC NO. PARTS NO. DESCRIPTION | | | REVISION | |
|--|----------|-----------------------------|----------|-----|
| | | | 1st | 2nd |
| 6- 1 | 50124351 | Fan | | |
| 6- 2 | 50277730 | Retaining Ring (E Clip) | | |
| 6- 3 | 50706211 | Cushion, Rubber | | |
| 6- 4 | 50124310 | Plate, Motor Support | | |
| 6- 5 | 50241220 | Stand-off, Capstan Motor | | |
| 6- 6 | 50241210 | Spacer | | |
| 6- 7 | 50701170 | Motor, Capstan | | |
| 6- 8 | 50122943 | Shaft, Frequency Change | | |
| 6- 9 | 50124332 | Plate, Capstan Motor | | |
| 6-10 | 50122950 | Spring, Belt Change Lock | | |
| 6-11 | 50122772 | Guide, Belt Change | | |
| 6-12 | 50124390 | Pulley, Motor | | |
| 6-13 | 50122850 | Belt, Capstan | | |
| 6-14 | 50489220 | PC Board Assy, Spark-Killer | | |
| 6-15 | 50234721 | Angle, Thrust | | |
| 6-16 | 50270771 | Clamp, Wire | | |
| 6-17 | 50277230 | Plate, Thrust | | |
| 6-18 | 50124220 | Flywheel, Capstan | | |
| 6-19 | 50124180 | Washer, Plastic | | |
| 6-20 | 50120360 | Capstan Assy | | |
| 6-21 | 50122901 | Capstan Assy Base | | |
| 6-22 | 50122550 | Oil Pad Ring | | |

CAPSTAN DRIVE ASSY A-7030 GSL

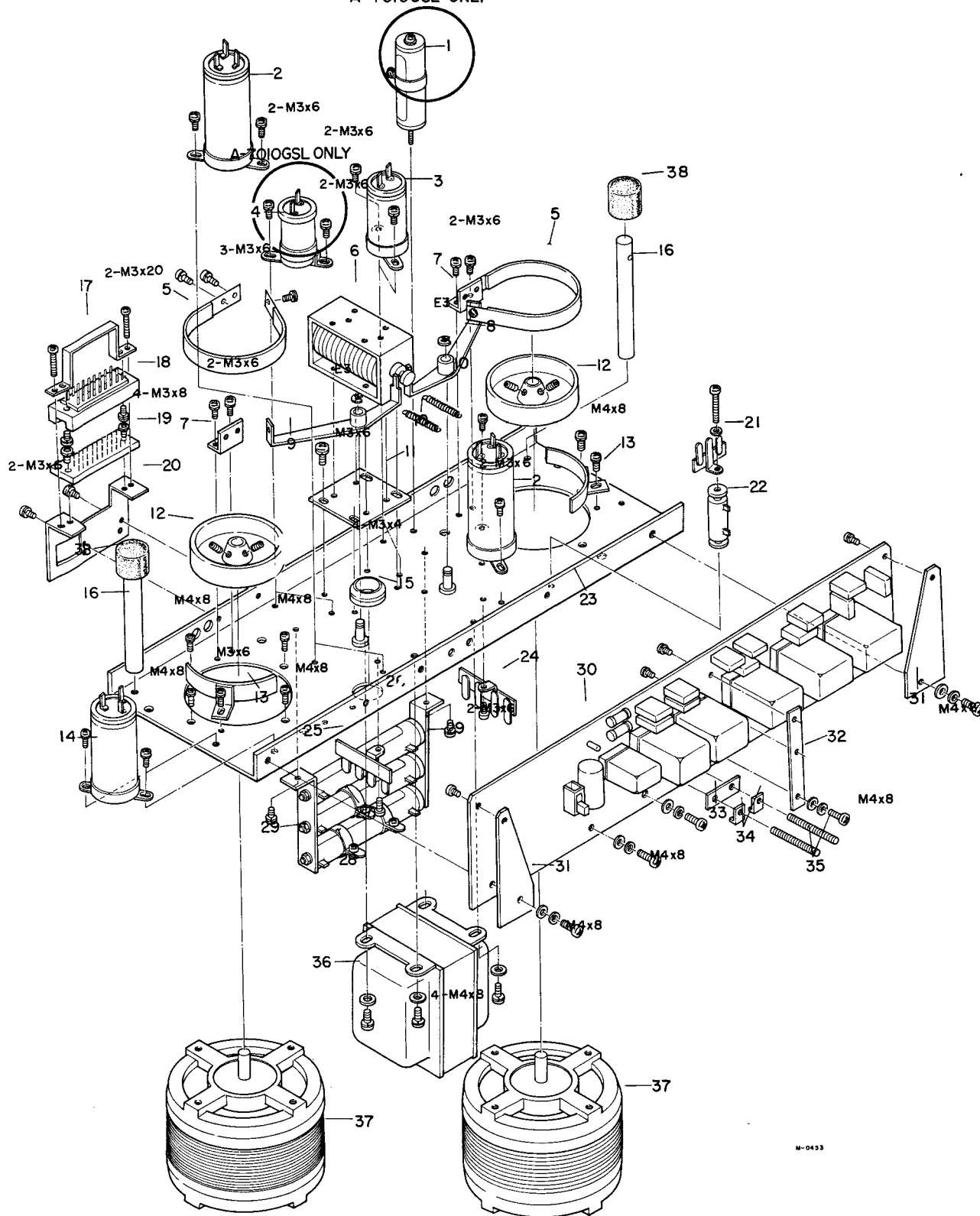


CAPSTAN DRIVE ASSY **A-7030 GSL**

| | | | REVISION | |
|----------|----------------|-----------------------------|----------|-----|
| REF. NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| 7- 1 | 50124351 | Fan | | |
| 7- 2 | 50701170 | Motor, Capstan | | |
| 7- 3 | 50241210 | Spacer | | |
| 7- 4 | 50706211 | Cushion, Rubber | | |
| 7- 5 | 50122943 | Shaft, Frquency Change | | |
| 7- 6 | 50124332 | Plate, Capstan Motor | | |
| 7- 7 | 50276280 | Clamp, Wire, A | | |
| 7- 8 | 50489291 | PC Board Assy, Spark-Killer | | |
| 7- 9 | 50122850 | Belt, Capstan | | |
| 7-10 | 50124220 | Flywheel, Capstan | | |
| 7-11 | 50122550 | Oil Pad Ring | | |
| 7-12 | 50120350 | Capstan Assy | | |
| 7-13 | 50124230 | Pulley, Motor | | |
| 7-14 | 50122950 | Spring, Belt Change Lock | | |
| 7-15 | 50122772 | Guide, Belt Change | | |
| 7-16 | 50122901 | Capstan Assy, Base | | |

REEL MOTOR ASSY

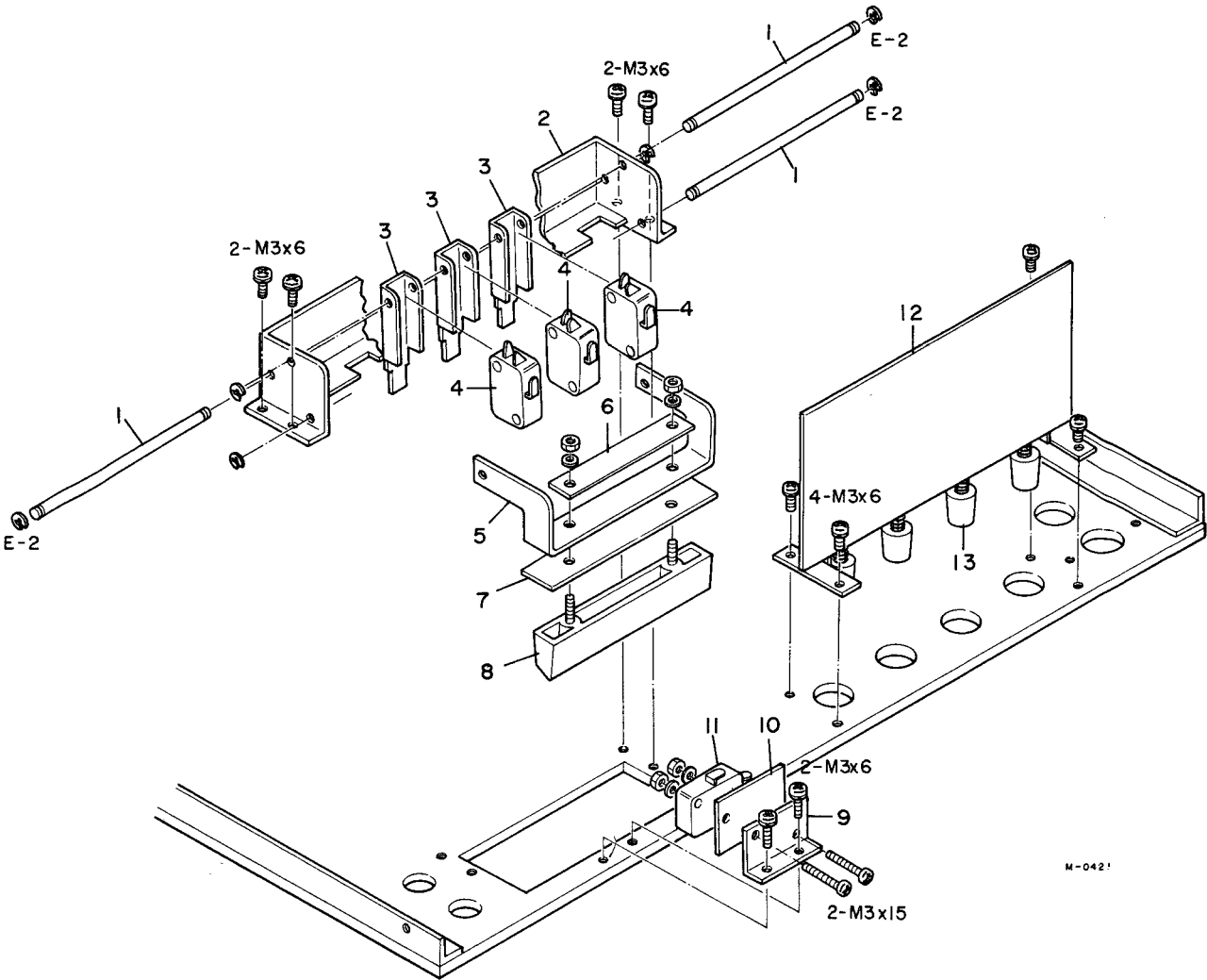
A-7010GSL ONLY



REEL MOTOR ASSY

| REF. TEAC NO. PARTS NO. DESCRIPTION | | | REVISION | |
|--|----------|---|----------|-----|
| | | | 1st | 2nd |
| 8- 1 | 50524412 | Resistor, Wire Wound 100 Ω 30W (Used on A-7010GSL only) | | |
| 8- 2 | 50545680 | Cap., MP 4+1 μ F (250V) | | |
| 8- 3 | 50551120 | Cap., Elec. 100 μ F 160V | | |
| 8- 4 | 50551170 | Cap., Elec. 1000 μ F 16V (Used on A-7010GSL only) | | |
| 8- 5 | 50172780 | Brake Band | | |
| | 50277610 | Felt | | |
| 8- 6 | 50616570 | Solenoid, Brake | | |
| 8- 7 | 50172771 | Bracket, Brake Band | | |
| 8- 8 | 50172810 | Arm, Brake, L | | |
| 8- 9 | 50172790 | Arm, Brake, R | | |
| 8-10 | 50172820 | Spring, Brake | | |
| 8-11 | 50616423 | Plate, Solenoid | | |
| 8-12 | 50172800 | Brake Drum | | |
| 8-13 | 50172761 | Brake Retainer | | |
| 8-14 | 50545310 | Cap., MP 1+2.8 μ F (250V) | | |
| 8-15 | 50277710 | Grommet | | |
| 8-16 | 50241203 | Stand-off, Deck Support | | |
| 8-17 | 50287490 | Connector Handle | | |
| 8-18 | 50436280 | Socket, 34P Connector (DM,EX only) | | |
| | 50438290 | Socket, 34P Connector (TCA only) | | |
| 8-19 | 50436480 | Plug, 34P Connector (DM,EX only) | | |
| | 50436510 | Plug, 34P Connector (TCA only) | | |
| 8-20 | 50234740 | Plate, Connector | | |
| 8-21 | 50452060 | Terminal Strip, 1L2P | | |
| 8-22 | 50524360 | Resistor, Wire Wound 10 Ω 5W | | |
| 8-23 | 50162831 | Plate, Reel Motor | | |
| 8-24 | 50452010 | Terminal Strip, 1L3P | | |
| 8-25 | 50452020 | Terminal Strip, 1L3P | | |
| 8-26 | 50524402 | Resistor, Wire Wound 1k Ω 40W | | |
| 8-27 | 50524382 | Resistor, Wire Wound 400 Ω 40W (A-7010GSL) | | |
| | 50524392 | Resistor, Wire Wound 800 Ω 40W (A-7030GSL) | | |
| 8-28 | 50524372 | Resistor, Wire Wound 200 Ω 40W | | |
| 8-29 | 50277660 | Bracket, Resistor | | |
| 8-30 | 50489691 | PC Board Assy, Control Relay (A-7010GSL) | | |
| | 50489700 | PC Board Assy, Control Relay (A-7030GSL) | | |
| 8-31 | 50277630 | Plate, Reinforcing | | |
| 8-32 | 50234790 | Plate, Reinforcing | | |
| 8-33 | 50277641 | Plate, Screw Guide | | |
| 8-34 | 50277370 | Nut Plate | | |
| 8-35 | 50277360 | Screw, Brake Adjustment | | |
| 8-36 | 50561890 | Transformer, Power | | |
| 8-37 | 50702260 | Motor, Reel (EM-115A) | | |
| 8-38 | 50321740 | Rubber Foot | | |

MODE CONTROL

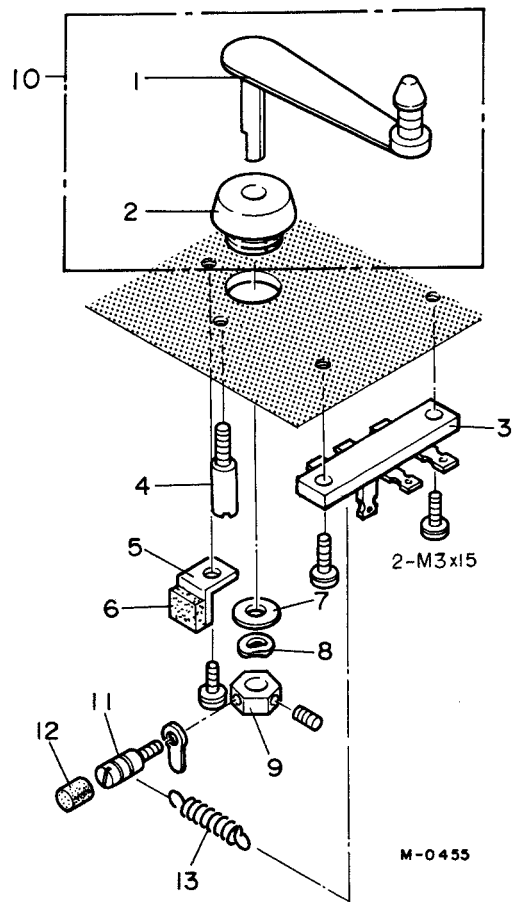


M-0421

MODE CONTROL

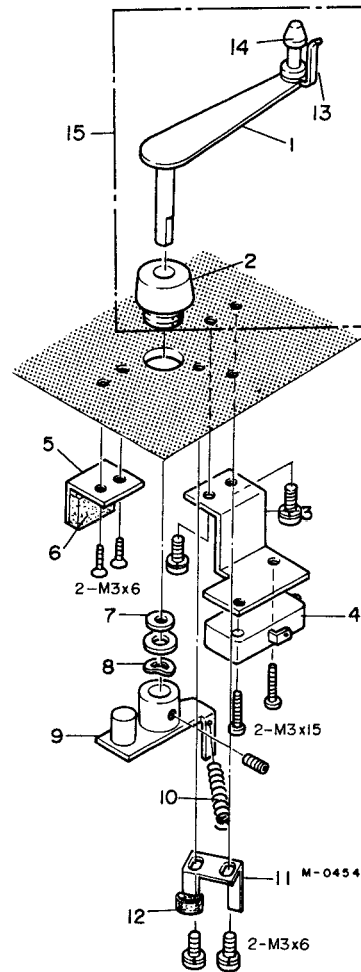
| REF. TEAC NO. PARTS NO. DESCRIPTION | | | REVISION | |
|--|----------|-------------------|----------|-----|
| | | | 1st | 2nd |
| 9- 1 | 50252301 | Rod, SW Mount | | |
| 9- 2 | 50273050 | Bracket, SW, A | | |
| 9- 3 | 50273070 | Bracket, SW, C | | |
| 9- 4 | 50446090 | SW, Micro | | |
| 9- 5 | 50273060 | Bracket, SW, B | | |
| 9- 6 | 50273150 | Bracket, SW, D | | |
| 9- 7 | 50273120 | Cushion, Rubber | | |
| 9- 8 | 50252340 | Push Button, Stop | | |
| 9- 9 | 50273040 | Bracket, Micro SW | | |
| 9-10 | 50271790 | Insulator Plate | | |
| 9-11 | 50446090 | SW, Micro | | |
| 9-12 | 50443670 | Push SW Assy | | |
| | 50443670 | SW, Push | | |
| 9-13 | 50253500 | Push Button, B | | |

LEFT TENSION ARM



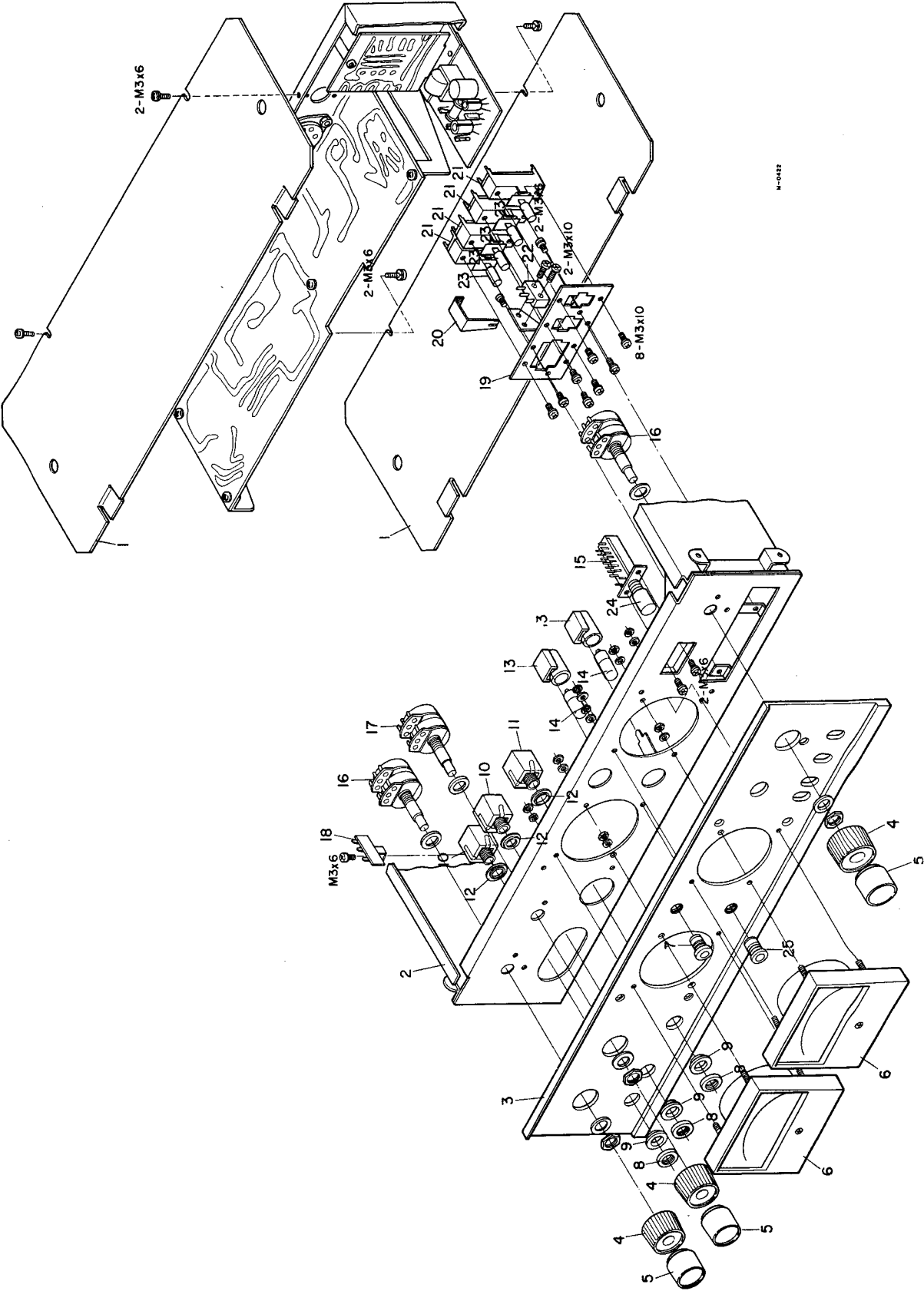
| | | | REVISION | |
|----------|----------------|-------------------------------|----------|-----|
| REF. NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| 10- 1 | 50183021 | Tension Arm, L | | |
| 10- 2 | 50182870 | Bushing, Tension Arm L | | |
| 10- 3 | 50453160 | Terminal Strip | | |
| 10- 4 | 50181360 | Pin, Limit Stop | | |
| 10- 5 | 50111710 | Bracket, Limit Stop | | |
| 10- 6 | 50277620 | Cushion, Rubber | | |
| 10- 7 | 50182140 | Washer, Thrust | | |
| 10- 8 | 50221200 | Washer, Thrust | | |
| 10- 9 | 50277390 | Nut | | |
| 10-10 | 50180620 | Left Tension Arm Sub (C) Assy | | |
| 10-11 | 50123140 | Pin, Spring Retainer | | |
| 10-12 | 50277400 | Vinyl Tube | | |
| 10-13 | 50220030 | Spring, Tension Arm | | |

RIGHT TENSION ARM



| REF. NO. TEAC PARTS NO. DESCRIPTION | | | REVISION | |
|-------------------------------------|----------|--|----------|-----|
| | | | 1st | 2nd |
| 11- 1 | 50182941 | Tension Arm, R (A-7010GSL) | | |
| | 50182981 | Tension Arm, R (A-7030GSL) | | |
| 11- 2 | 50181920 | Bushing, Tension Arm R | | |
| 11- 3 | 50272951 | Bracket, Micro SW | | |
| 11- 4 | 50446180 | SW, Micro | | |
| 11- 5 | 50272940 | Bracket, Magnet | | |
| 11- 6 | 50183900 | Magnet | | |
| 11- 7 | 50182140 | Washer, Thrust | | |
| 11- 8 | 50221200 | Washer, Spring | | |
| 11- 9 | 50277412 | Arm, Micro SW Actuator | | |
| 11-10 | 50182311 | Spring, Tension Arm R | | |
| 11-11 | 50141561 | Limit Stop, Tension Arm R | | |
| 11-12 | 50182950 | Cushion, Rubber | | |
| 11-13 | 50182360 | Guide, Tape | | |
| 11-14 | 50182340 | Post, Tape Guide, L | | |
| 11-15 | 50180630 | Right Tension Arm Sub (C) Assy (A-7010GSL) | | |
| | 50180640 | Right Tension Arm Sub (C) Assy (A-7030GSL) | | |

PREAMPLIFIER CHASSIS-1



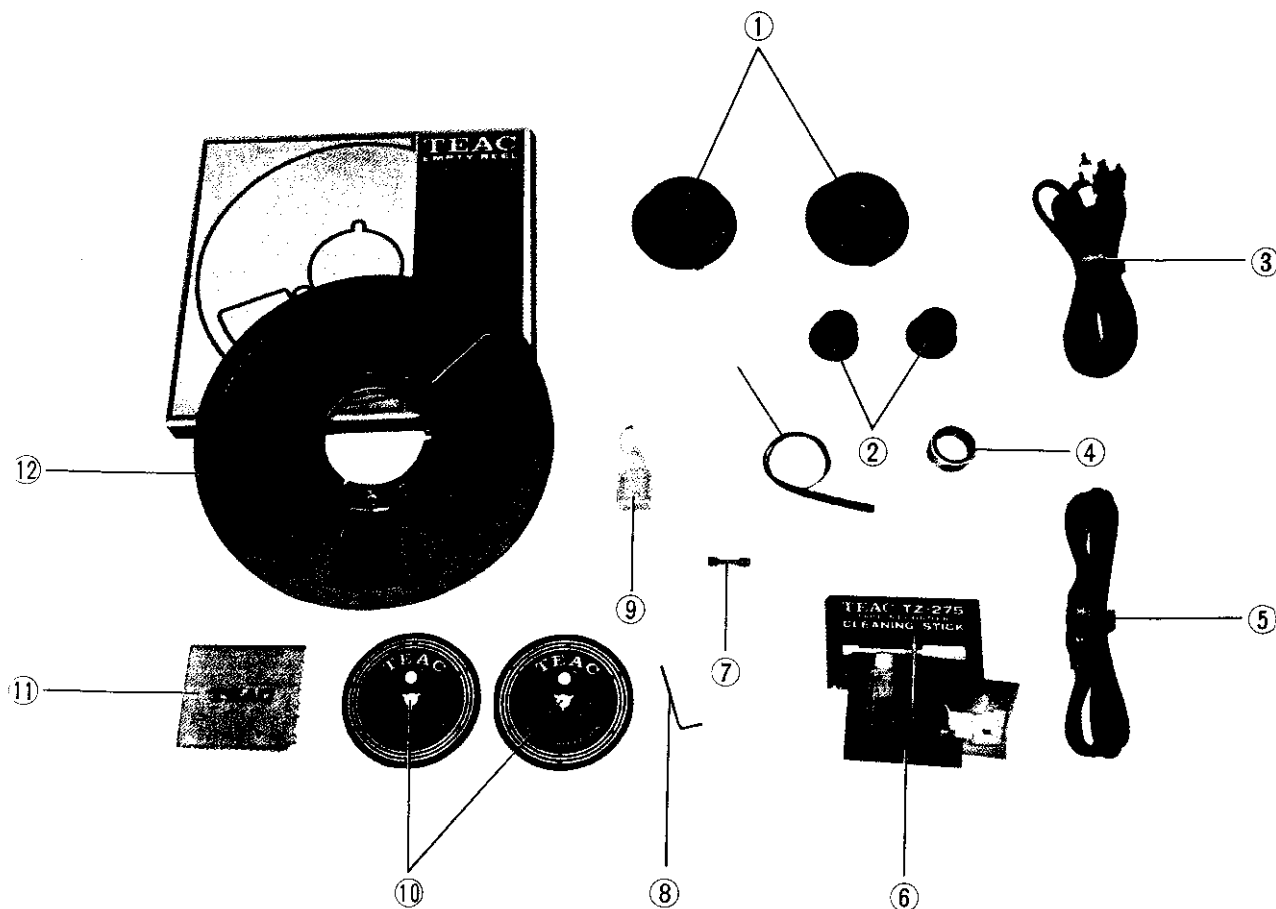
PREAMPLIFIER CHASSIS-1

| | | | REVISION | |
|----------|----------------|--|----------|-----|
| REF. NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| 12- 1 | 50233832 | Cover, Ampl. Chassis | | |
| 12- 2 | 50234801 | Chassis, Ampl. | | |
| 12- 3 | 50113910 | Panel, Ampl. Trim | | |
| 12- 4 | 50252331 | Knob, B (Inner) | | |
| 12- 5 | 50252261 | Knob, A (Outer) | | |
| 12- 6 | 50581390 | VU Meter | | |
| 12- 7 | 50415181 | Pilot Holder, REC BIAS (Red) | | |
| 12- 8 | 50231951 | Nut, Trim | | |
| 12- 9 | 50272620 | Washer, Insulator, B | | |
| 12-10 | 50430240 | Jack, Phone, Single (MIC) | | |
| 12-11 | 50432450 | Jack, Phone, 3 Cond. (Headphone) | | |
| 12-12 | 50272620 | Washer, Insulator, B | | |
| 12-13 | 50415250 | Socket, Pilot Lamp | | |
| 12-14 | 50414580 | Pilot Lamp, Bayonet Type (8V) | | |
| 12-15 | 50443630 | SW, Push (Monitor) | | |
| 12-16 | 50537090 | Potentiometer, 2 Gang, 100k Ω A | | |
| 12-17 | 50537100 | Potentiometer, 2 Gang, 10k Ω A | | |
| 12-18 | 50452170 | Terminal Strip, 1L2P | | |
| 12-19 | 50235221 | Plate, Lever SW | | |
| 12-20 | 50235230 | Bracket, Micro SW | | |
| 12-21 | 50937580 | SW, Lever | | |
| 12-22 | 50446330 | SW, Micro | | |
| 12-23 | 50253440 | Knob, Lever SW | | |
| 12-24 | 50253500 | Push Button, B | | |
| 12-25 | 50415190 | Pilot Holder, REC EQ/LEVEL (Violet) | | |

PREAMPLIFIER CHASSIS-2

| REF. NO. TEAC PARTS NO. DESCRIPTION | | | REVISION | |
|-------------------------------------|----------|----------------------------|----------|-----|
| | | | 1st | 2nd |
| 13- 1 | 50234801 | Chassis, Ampl. | | |
| 13- 2 | 50113251 | Panel, Ampl. Trim | | |
| 13- 3 | 50430010 | Connector, DIN | | |
| 13- 4 | 50434631 | Jack, Pin, 2P | | |
| 13- 5 | 50434650 | Socket, 8P (Female) | | |
| 13- 6 | 50432340 | Socket, 11P (Male) | | |
| 13- 7 | 50241730 | Spacer | | |
| 13- 8 | 50489320 | PC Board Assy, Bias Adjust | | |
| 13- 9 | 50234880 | Angle, OSC Assy | | |
| 13-10 | 50489300 | PC Board Assy, Bias OSC | | |
| 13-11 | 50234850 | Bracket, A | | |
| 13-12 | 50234860 | Bracket, B | | |
| 13-13 | 50489311 | PC Board Assy, Record/PB | | |
| 13-14 | 50241720 | Stand-off | | |
| 13-15 | 50231930 | Bracket, C | | |

STANDARD ACCESSORIES



| REF. NO. | TEAC PARTS NO. | DESCRIPTION | REVISION | |
|----------|----------------|-----------------------------------|----------|-----|
| | | | 1st | 2nd |
| 14- 1 | 50162040 | Reel Holders (TZ-610), ×2 | | |
| 14- 2 | 50161580 | Reel Holders, ×2 | | |
| 14- 3 | 50471250 | Input Output Connection Cords, ×2 | | |
| 14- 4 | 50862030 | Splicing Tape | | |
| 14- 5 | 50470771 | AC Power Cord (DM,EX) | | |
| | 50470501 | AC Power Cord (TCA only) | | |
| 14- 6 | 57100300 | Cleaning Stick (TZ-275) | | |
| 14- 7 | 50411140 | Fuse, 2A, ×2 (EX, TCA) | | |
| 14- 8 | 50860010 | Hex Wrench, M3 (EX, TCA) | | |
| | 50860020 | Hex Wrench, M4 (EX, TCA) | | |
| 14- 9 | | Oil | | |
| 14-10 | 50162170 | Reel Adjusting Disc, ×2 (TZ-611) | | |
| 14-11 | 50292260 | Silicone Cloth | | |
| 14-12 | 50162040 | Empty Reel, 10 inch (RE-1002) | | |

A-7010GS

A-7030GS

PRINTED CIRCUIT BOARD AND PARTS LIST

A-7010 GSL/A-7030 GSL

REPLACEMENT INFORMATION

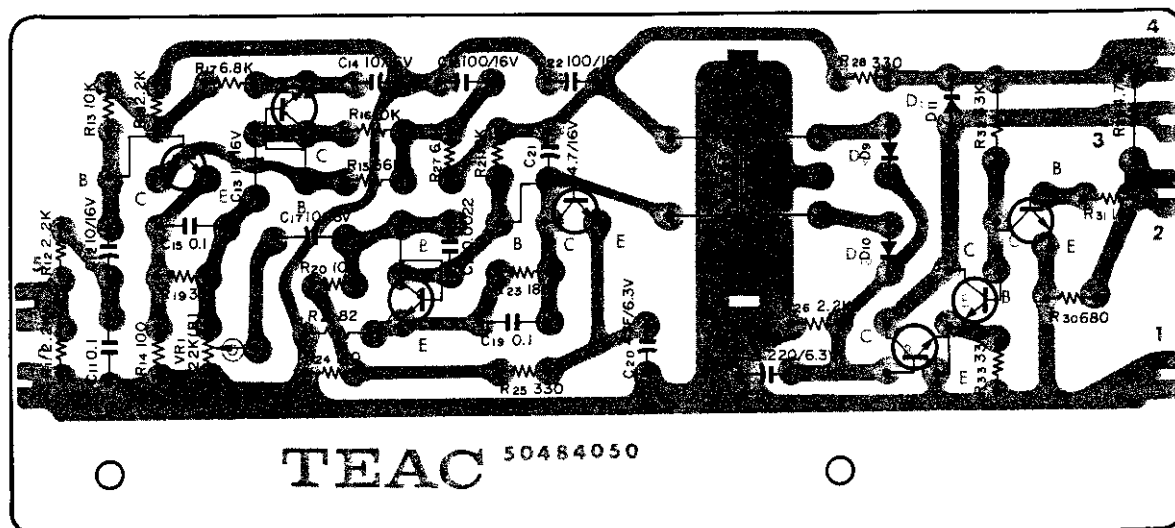
Replacement parts are available through your nearest TEAC dealer or directly from the TEAC office.

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

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

| <i>MODEL</i> | <i>SERIAL NO.</i> | <i>REF.NO.</i> | <i>PARTS NO.</i> | <i>DESCRIPTION</i> |
|--------------|-------------------|----------------|------------------|--------------------|
|--------------|-------------------|----------------|------------------|--------------------|

P.S. AMPLIFIER (PHASE SENSING AMPL.)
A-7010GSL

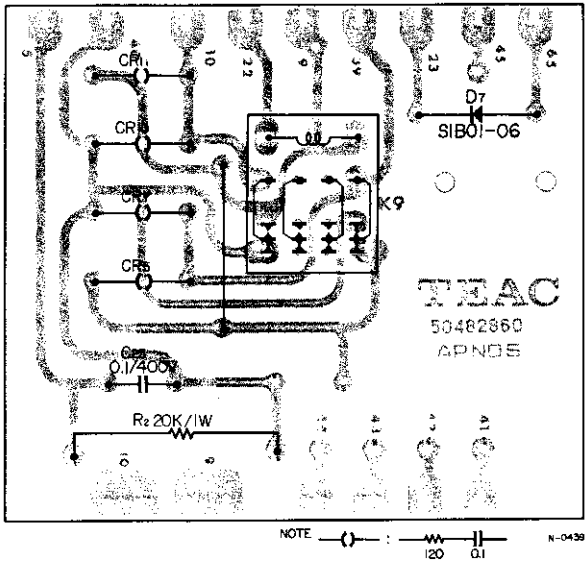


M-0428

| CIRCUIT REF.NO. | | | REVISION | |
|--------------------|-----------|--------------------------------------|----------|-----|
| | | | 1st | 2nd |
| | TEAC | | | |
| | PARTS NO. | DESCRIPTION | | |
| | 50491040 | PC Board Assy, P.S. Ampl. | | |
| | 50484050 | PC Board | | |
| D11 | 50422560 | Diode, SIB01-02 | | |
| D9-10 | 50422130 | Diode, (or IN-60) | | |
| T1 | 50562100 | Transformer, Output | | |
| Q1 | 50423300 | Transistor 2SC693F or | | |
| | 50423510 | Transistor 2SC733(Y) | | |
| Q2-4 | 50423830 | Transistor 2SC536F or | | |
| | 50423510 | Transistor 2SC733(Y) | | |
| Q5 | 50423850 | Transistor 2SC971 | | |
| R11-12. 18-26 | 50515380 | Resistor, Carbon 2.2k Ω 1/4W | | |
| R13-16. 20-21 | 50515490 | Resistor, Carbon 10k Ω 1/4W | | |
| R14 | 50515640 | Resistor, Carbon 100 Ω 1/4W | | |
| R15 | 50515610 | Resistor, Carbon 56k Ω 1/4W | | |
| R17-27 | 50515470 | Resistor, Carbon 6.8k Ω 1/4W | | |
| R19 | 50515570 | Resistor, Carbon 33k Ω 1/4W | | |
| R22 | 50515630 | Resistor, Carbon 82 Ω 1/4W | | |
| R23 | 50515520 | Resistor, Carbon 18k Ω 1/4W | | |
| R25-28 | 50515280 | Resistor, Carbon 330 Ω 1/4W | | |
| R24 | 50515230 | Resistor, Carbon 120 Ω 1/4W | | |
| R29 | 50515170 | Resistor, Carbon 33 Ω 1/4W | | |
| R30 | 50515320 | Resistor, Carbon 680 Ω 1/4W | | |
| R31 | 50515340 | Resistor, Carbon 1k Ω 1/4W | | |
| R32 | 50515460 | Resistor, Carbon 4.7k Ω 1/4W | | |
| R33 | 50515570 | Resistor, Carbon 33k Ω 1/4W | | |
| VR1 | 50533560 | Trimmer Resistor 22k Ω B | | |
| C23 | 50554330 | Capacitor, Elec. 220 μ F 6.3V | | |
| C16-22 | 50554200 | Capacitor, Elec. 100 μ F 16V | | |
| C20 | 50554030 | Capacitor, Elec. 47 μ F 6.3V | | |
| C12-13. 14-17 | 50554050 | Capacitor, Elec. 10 μ F 16V | | |
| C11-15-19 | 50548040 | Capacitor, Mylar 0.1 μ F 50V | | |
| C18 | 50548220 | Capacitor, Mylar 0.0022 μ F 150V | | |
| C21 | 50546170 | Capacitor, Tantalum 4.7 μ F 16V | | |

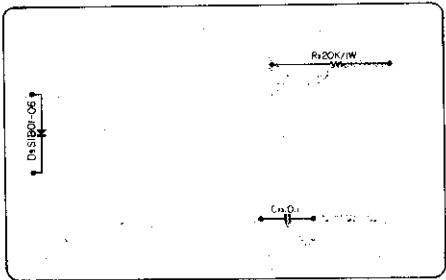
SPARK KILLER ASSY

A-7010GSL



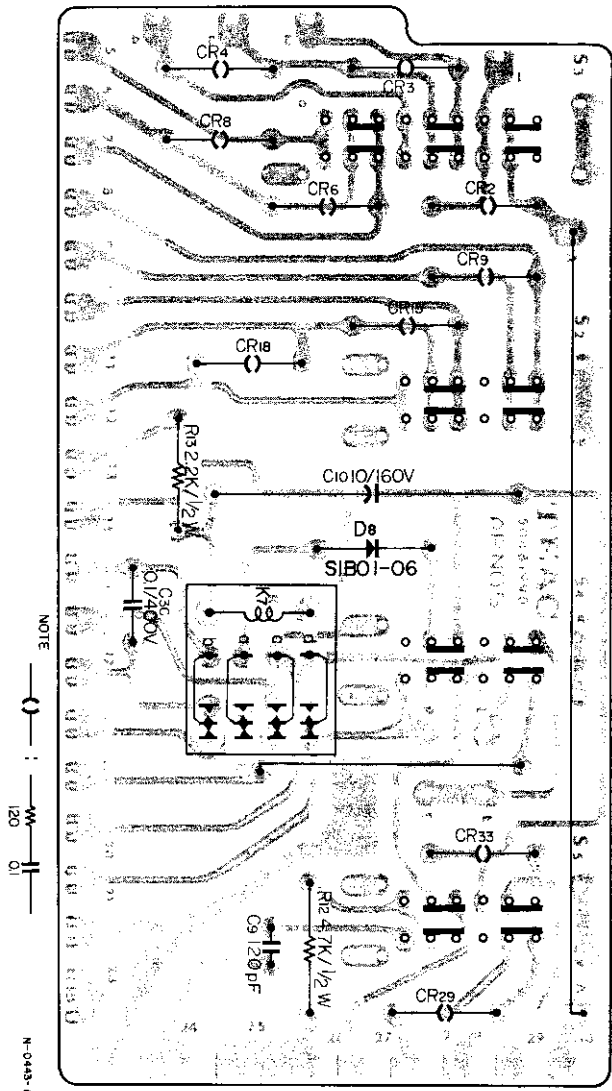
| | | | REVISION | |
|-----------------|----------------|----------------------------------|----------|-----|
| CIRCUIT REF.NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| | 50489220 | PC Board Assy, Spark Killer | | |
| | 50482860 | PC Board, Spark Killer | | |
| C23 | 50548390 | Cap., Metalized Mylar 0.1µF 400V | | |
| R2 | 50526220 | Resistor, Carbon 20kΩ 1W | | |
| CR5.7. 9.10 | 50529050 | Spark Killer 0.1µF + 120Ω | | |
| D7 | 50422570 | Diode, SIB01-06 | | |
| K9 | 50610770 | Relay, Miniature DC 100V | | |

A-7030 GSL



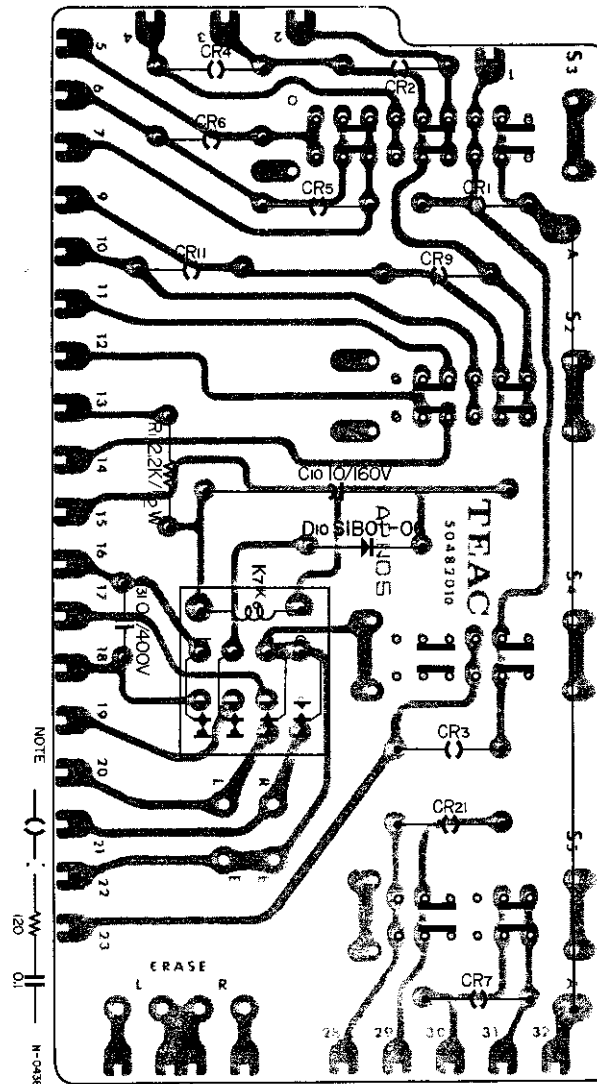
| | | | REVISION | |
|-----------------|----------------|----------------------------------|----------|-----|
| CIRCUIT REF.NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| | 50489291 | PC Board Assy, Spark Killer | | |
| | 50482971 | PC Board, Spark Killer | | |
| C23 | 50548390 | Cap., Metalized Mylar 0.1µF 400V | | |
| | 50526220 | Resistor, Carbon 20kΩ 1W | | |
| D9 | 50422570 | Diode, SIB01-06 | | |

RECORD RELAY ASSY
A-7010GSL

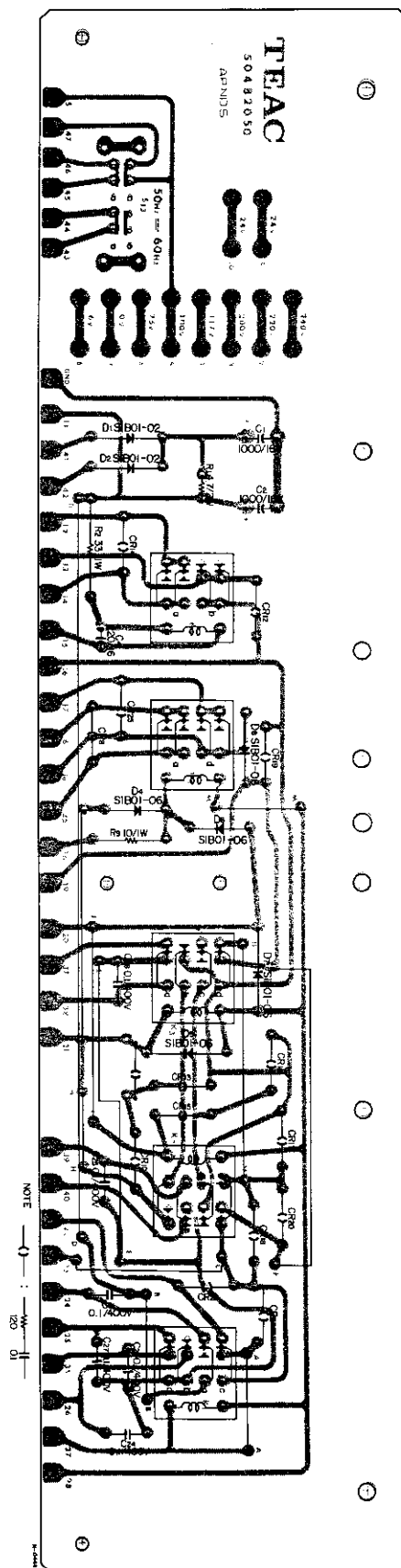


| | | | REVISION | |
|-----------------|----------------|----------------------------------|----------|-----|
| CIRCUIT REF.NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| | 50489270 | PC Board Assy, Record Relay | | |
| | 50481990 | PC Board, Record Relay | | |
| | 50443670 | Push SW Assy | | |
| K7 | 50610730 | Relay, DC 100V | | |
| C10 | 50555450 | Cap., Elec. 10µF 160V | | |
| C30 | 50548390 | Cap., Metalized Mylar 0.1µF 400V | | |
| C9 | 50544140 | Cap., Polyst. 120pF 125V | | |
| R13 | 50516380 | Resistor, Carbon 2.2kΩ 1/2W | | |
| R12 | 50516440 | Resistor, Carbon 4.7kΩ 1/2W | | |
| D8 | 50442570 | Diode, SIB01-06 | | |
| | 50529050 | Spark Killer 0.1µF + 120Ω, ×10 | | |

RECORD RELAY ASSY A-7030 GSL



| | | | REVISION | |
|---------|-----------|----------------------------------|----------|-----|
| CIRCUIT | TEAC | | 1st | 2nd |
| REF.NO. | PARTS NO. | DESCRIPTION | | |
| | 50489340 | PC Board Assy, Record Relay | | |
| | 50482010 | PC Board, Record Relay | | |
| | 50443670 | Push SW Assy | | |
| K7 | 50610730 | Relay, DC 100V | | |
| C10 | 50555450 | Cap., Elec. 10µF 160V | | |
| C31 | 50548390 | Cap., Metalized Mylar 0.1µF 400V | | |
| R11 | 50516380 | Resistor, Carbon 2.2kΩ 1/2W | | |
| D10 | 50442570 | Diode, SIB01-06 | | |
| | 50529050 | Spark Killer 0.1µF + 120Ω, ×10 | | |



CONTROL RELAY ASSY

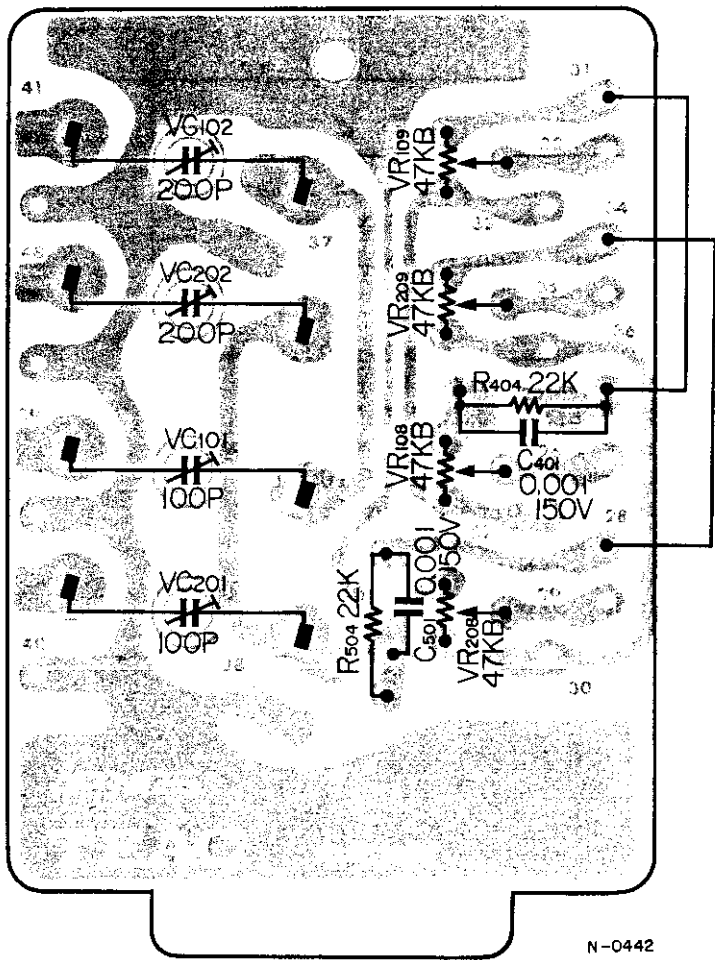
A-7010GSL

| | | | REVISION | |
|--------------------|-------------------|----------------------------------|----------|-----|
| CIRCUIT REF.NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| | 50489331 | PC Board Assy, Control Relay | | |
| | 50489691 | PC Board Assy, Control Relay | | |
| | 50482040 | PC Board, Control Relay | | |
| K1~3·5·6 | 50610770 | Relay, DC 100V | | |
| K4 | 50610780 | Relay, DC 12V | | |
| C24~27 | 50548390 | Cap., Metalized Mylar 0.1μF 400V | | |
| C1 | 50555160 | Cap., Elec. 1000μF 16V | | |
| C7 | 50555360 | Cap., Elec. 3.3μF 160V | | |
| | 50529050 | Spark Killer, 0.1μF + 120Ω, ×16 | | |
| R7 | 50525100 | Resistor, Wire Wound 10Ω 1W | | |
| R1 | 50525920 | Resistor, Wire Wound 4.7Ω 1W | | |
| R9 | 50527010 | Resistor, 1.5kΩ 1W | | |
| D4~6 | 50422570 | Diode, SIB01-06 | | |
| D1·2 | 50422560 | Diode, SIB01-02 | | |
| S11 | 50444280 | SW, Slide | | |

A-7030 GSL

| | | | REVISION | |
|--------------------|-------------------|----------------------------------|----------|-----|
| CIRCUIT REF.NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| | 50489700 | PC Board Assy, Control Relay | | |
| | 50482050 | PC Board, Control Relay | | |
| K1~3·6 | 50610770 | Relay, DC 100V | | |
| K4 | 50610830 | Relay, DC 12V | | |
| C21·24~28 | 50548390 | Cap., Metalized Mylar 0.1μF 400V | | |
| C1·2 | 50554890 | Cap., Elec. 1000μF 16V | | |
| C4 | 50554390 | Cap., Elec. 220μF 16V | | |
| | 50529050 | Spark Killer, 0.1μF + 120Ω, ×15 | | |
| R9 | 50525100 | Resistor, Wire Wound 10Ω 1W | | |
| R1 | 50525920 | Resistor, Wire Wound 4.7Ω 1W | | |
| R2 | 50525940 | Resistor, Wire Wound 33Ω 1W | | |
| D4~8 | 50422570 | Diode, SIB01-06 | | |
| D1·2 | 50422560 | Diode, SIB01-02 | | |
| S13 | 50444280 | SW, Slide | | |

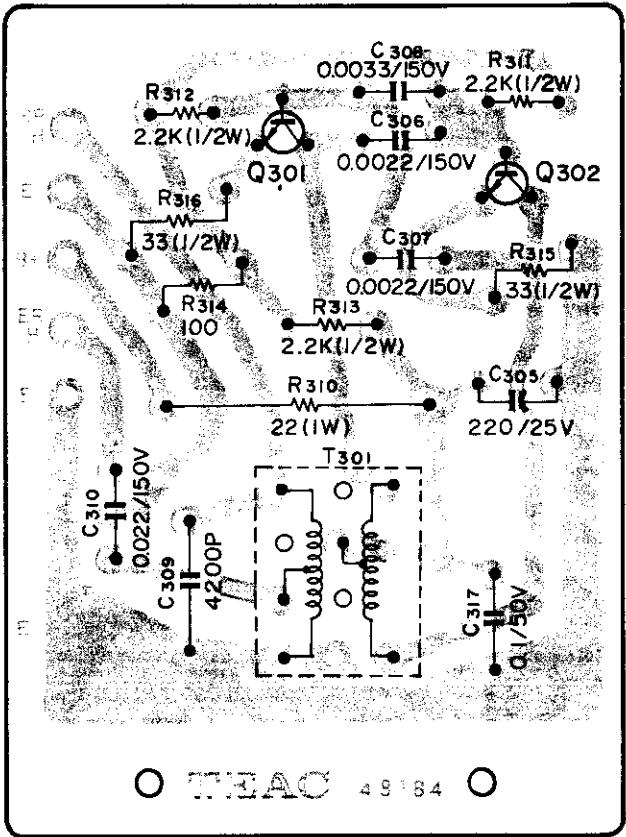
BIAS ADJUST ASSY



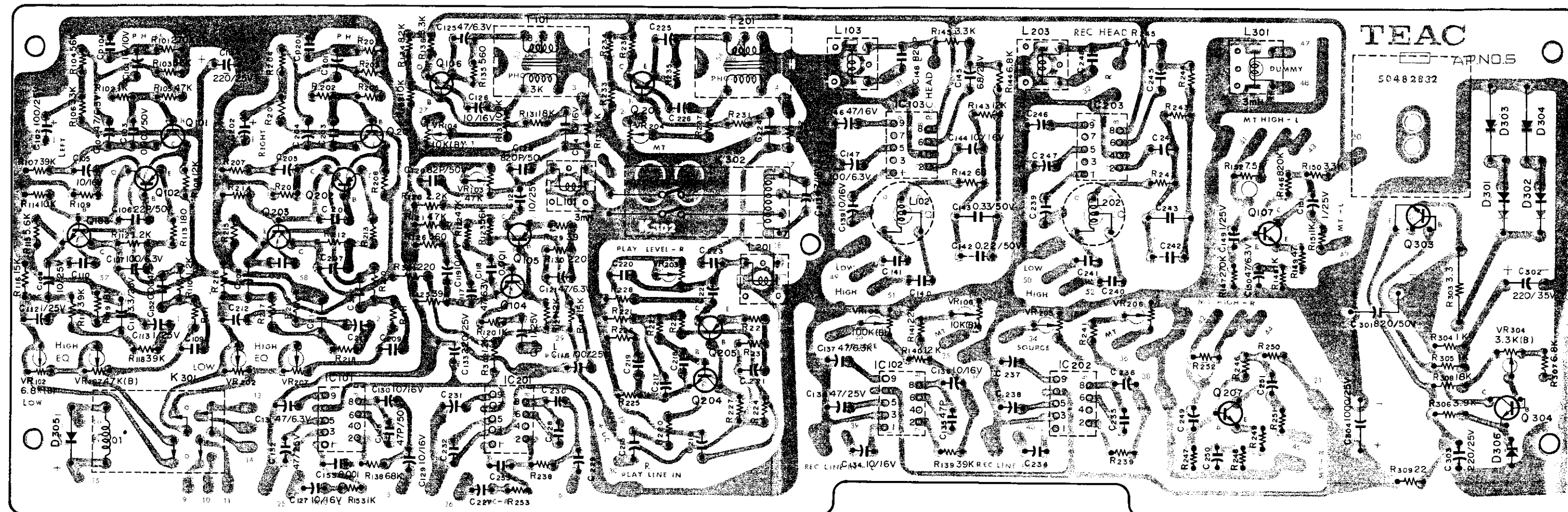
N-0442

| | | | REVISION | |
|-----------|-----------|----------------------------|----------|-----|
| CIRCUIT | TEAC | | 1st | 2nd |
| REF.NO. | PARTS NO. | DESCRIPTION | | |
| | 50489320 | PC Board Assy, Bias Adjust | | |
| | 50481980 | PC Board, Bias Adjust | | |
| VR108/208 | 50533520 | Trimmer Resistor 47kΩ B | | |
| VR109/209 | 50533520 | Trimmer Resistor 47kΩ B | | |
| VC101/201 | 50547040 | Trimmer Capacitor 100pF | | |
| VC102/202 | 50547050 | Trimmer Capacitor 200pF | | |
| C401/501 | 50548820 | Cap., Mylar 0.001μF 150V | | |
| R404/504 | 50517100 | Resistor, Carbon 22kΩ 1/8W | | |

BIAS OSCILLATOR



| | | | REVISION | |
|-----------------|----------------|--|----------|-----|
| CIRCUIT REF.NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| | 50489300 | PC Board Assy, Bias OSC | | |
| | 50481840 | PC Board, Bias OSC | | |
| T301 | 50563170 | Transformer, Oscillator | | |
| Q301-302 | 50423850 | Transistor, Silicon 2SC971 (with Heat Sink) | | |
| R310 | 50525950 | Resistor, Wire Wound 22Ω 1W | | |
| R311-312 | 50514920 | Resistor, Carbon 2.2kΩ 1/2W | | |
| R313 | 50514920 | Resistor, Carbon 2.2kΩ 1/2W | | |
| R314 | 50515220 | Resistor, Carbon 100Ω 1/4W | | |
| R315-316 | 50514990 | Resistor, Carbon 33Ω 1/2W | | |
| C305 | 50554180 | Cap., Elec. 220μF 25V | | |
| C306-307 | 50548790 | Cap., Mylar 0.0022μF 150V | | |
| C308 | 50548530 | Cap., Mylar 0.0033μF 150V | | |
| C309 | 50544040 | Cap., Mica 4200pF 250V | | |
| C310 | 50548740 | Cap., Mylar 0.022μF 150V | | |
| C317 | 50548040 | Cap., Mylar 0.1μF 50V | | |



| REC EQ | | |
|-----------------|------------------------|--------------------|
| CIRCUIT REF.NO. | A-6010GSL A-7010GSL | A-7030GSL |
| C140/240 | 0.015 μ F/50V | 0.0047 μ F/50V |
| C141/241 | 0.033 μ F/50V | 0.015 μ F/50V |

PREAMPLIFIER

| | | | REVISION | |
|---------------------|-------------------|---|----------|-----|
| CIRCUIT REF.NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| | 50489311 | PC Board Assy, Preamp1. | | |
| | 50482831 | PC Board, Preamp1. | | |
| | 50234870 | Heat Sink | | |
| K301 | 50610850 | Relay, DC 12V | | |
| K302 | 50610870 | Relay, 12V | | |
| T101/201 | 50562141 | Transformer, Headphone 3k Ω :8 Ω or | | |
| | 50563270 | Transformer, Headphone 3k Ω :8 Ω | | |
| | 50270160 | Cushion, Rubber | | |
| SILICON TRANSISTORS | | | | |
| Q101/201 | 50424340 | 2SC1000-BL | | |
| Q102/202 | 50424210 | 2SA666-I(S) or | | |
| | 50424140 | 2SA572-YL4 | | |
| Q103/203 | 50423830 | 2SC536-F | | |
| Q104/204 | 50424180 | 2SC693Fa | | |
| Q105/205 | 50424210 | 2SA666-I(S) or | | |
| | 50423650 | 2SA494-Y | | |
| Q106/206 | 50423620 | 2SC828R (or S) or | | |
| | 50423510 | 2SC733Y | | |
| Q107/207 | 50423830 | 2SC536F or | | |
| | 50423620 | 2SC828R (or S) or | | |
| | 50423510 | 2SC733Y | | |
| Q303 | 50423800 | 2SD235-0 or | | |
| | 50424190 | 2SC1226A-Q | | |
| Q304 | 50423510 | 2SC733Y | | |
| INTEGRATED CIRCUITS | | | | |
| IC101/201 | 50427090 | TEAC-42709 (LD-3120) | | |
| IC102/202 | 50427090 | TEAC-42709 (LD-3120) | | |
| IC103/203 | 50427100 | TEAC-42710 (LD-3141) | | |
| DIODES | | | | |
| D301~305 | 50422560 | SIB01-02 | | |
| D306 | 50422580 | Zener 0.2Z6.2A | | |
| COILS | | | | |
| L101/201 | 50566300 | Trap 3mH | | |
| L102/202 | 50566370 | Record Compensation 4.2/2.4mH | | |
| L103/203 | 50566300 | Trap 3mH | | |
| L301 | 50566581 | Dummy Load 3mH | | |

PREAMPLIFIER (CONTINUED)

| | | | REVISION | |
|---|-------------------|-----------------------|----------|-----|
| CIRCUIT REF.NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| CARBON RESISTORS | | | | |
| ALL RESISTORS IN OHMS, 10% TOLERANCE 1/4 WATTS AND FIXED CARBON FILM TYPE UNLESS OTHERWISE NOTED. | | | | |
| R101/201 | 50515700 | 270k | | |
| R102/202 | 50515340 | 1k | | |
| R103/203 | 50515610 | 56k | | |
| R104/204 | 50515610 | 56k | | |
| R105/205 | 50515590 | 47k | | |
| R106/206 | 50515570 | 33k | | |
| R107/207 | 50515580 | 39k | | |
| R108/208 | 50515500 | 12k | | |
| R109/209 | 50515300 | 470 (A-7010GSL only) | | |
| | 50515310 | 560 (A-7030GSL only) | | |
| R110/210 | 50515350 | 1.2k | | |
| R111/211 | 50515660 | 150k (A-7010GSL only) | | |
| | 50515670 | 180k (A-7030GSL only) | | |
| R112/212 | 50515350 | 1.2k | | |
| R113/213 | 50515250 | 180 | | |
| R114/214 | 50515490 | 10k | | |
| R115/215 | 50515460 | 5.6k | | |
| R116/216 | 50515510 | 15k | | |
| R117/217 | 50515580 | 39k | | |
| R118/218 | 50515580 | 39k | | |
| R119/219 | 50515520 | 18k | | |
| R120/220 | 50515340 | 1k | | |
| R121/221 | 50519810 | 47k | | |
| R122/222 | 50515590 | 47k | | |
| R123/223 | 50515610 | 56k | | |
| R124/224 | 50515510 | 15k | | |
| R125/225 | 50515580 | 39k | | |
| R126/226 | 50515310 | 560 | | |
| R127/227 | 50515500 | 12k | | |
| R128/228 | 50515380 | 2.2k | | |
| R129/229 | 50515160 | 39 | | |
| R130/230 | 50515260 | 220 | | |
| R131/231 | 50515520 | 18k | | |
| R132/232 | 50515340 | 1k | | |
| R133/233 | 50515490 | 10k | | |
| R134/234 | 50515630 | 82k | | |
| R135/235 | 50515310 | 560 | | |
| R136/236 | 50515410 | 3.3k | | |
| R137/237 | 50515640 | 100k | | |
| R138/238 | 50515620 | 68k | | |
| R139/239 | 50515580 | 39k | | |
| R140/240 | 50515640 | 100k | | |
| R141/241 | 50515540 | 22k | | |
| R142/242 | 50515200 | 68 | | |

PREAMPLIFIER (CONTINUED)

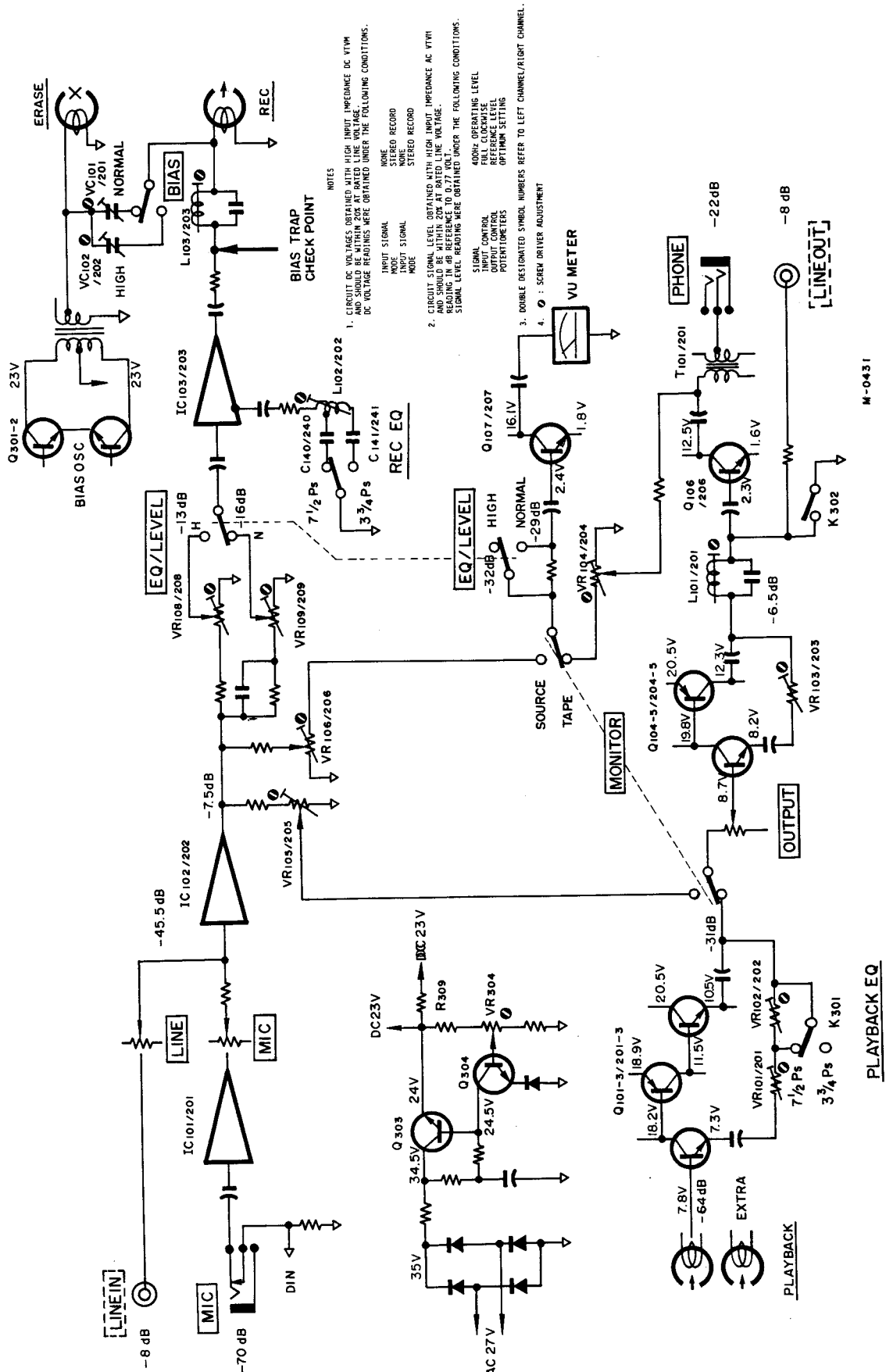
| | | | REVISION | |
|---|-------------------|--------------------------------|----------|-----|
| CIRCUIT REF.NO. | TEAC PARTS NO. | DESCRIPTION | 1st | 2nd |
| R143/243 | 50515500 | 12k | | |
| R144/244 | 50515470 | 6.8k | | |
| R145/245 | 50515380 | 2.2k | | |
| R146/246 | 50517700 | 820k | | |
| R147/247 | 50515700 | 270k | | |
| R148/248 | 50515340 | 1k | | |
| R149/249 | 50515170 | 47 | | |
| R150/250 | 50515410 | 3.3k | | |
| R151/251 | 50515340 | 1k | | |
| R152/252 | 50571030 | 7.5k | | |
| R153/253 | 50515340 | 1k | | |
| R301 | 50515260 | 220 | | |
| R302 | 50515350 | 1.2k | | |
| R303 | 50525930 | Wire Wound 3.3 1W | | |
| R304 | 50515340 | 1k | | |
| R305 | 50515340 | 1k | | |
| R306 | 50515430 | 3.9k | | |
| R307 | 50515470 | 6.8k | | |
| R308 | 50515520 | 18k | | |
| R309 | 50515130 | 22 | | |
| TRIMMER RESISTORS | | | | |
| VR101/201 | 50533460 | 4.7k Ω B | | |
| VR102/202 | 50533580 | 6.8k Ω B | | |
| VR103/203 | 50533520 | 47k Ω B | | |
| VR104/204 | 50533480 | 10k Ω B | | |
| VR105/205 | 50533560 | 22k Ω B | | |
| VR106/206 | 50533480 | 10k Ω B | | |
| VR304 | 50533640 | 2.2k Ω B | | |
| CAPACITORS | | | | |
| ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED. | | | | |
| C101/201 | 50546190 | Tantalum 10 10V | | |
| C102/202 | 50554170 | Elec. 100 25V | | |
| C103/203 | 50548780 | Mylar 0.001 50V | | |
| C104/204 | 50554030 | Elec. 47 6.3V | | |
| C105/205 | 50554270 | Elec. 10 16V | | |
| C106/206 | 50544080 | Polyst. 22pF 50V | | |
| C107/207 | 50554230 | Elec. 100 6.3V | | |
| C108/208 | 50557090 | Elec. 10 25V | | |
| C109/209 | 50548290 | Mylar 0.022 50V (A-7010GSL) | | |
| | 50548420 | Mylar 0.015 50V (A-7030GSL) | | |
| C110/210 | 50549420 | Mylar 0.0027 (A-7010GSL only) | | |
| | 50544090 | Polyst. 560pF (A-7030GSL only) | | |
| C111/211 | 50554180 | Elec. 220 25V | | |

PREAMPLIFIER (CONTINUED)

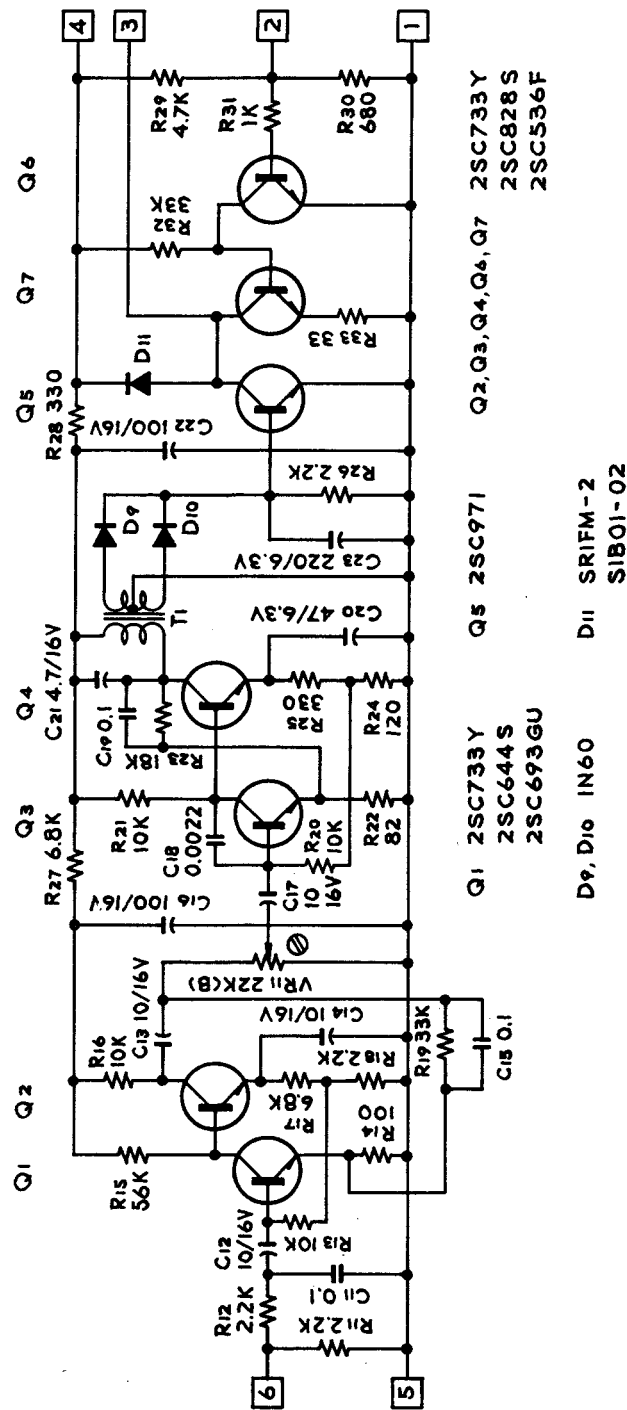
| CIRCUIT REF.NO. TEAC PARTS NO. DESCRIPTION | | | REVISION | |
|--|----------|-------------------------------|----------|-----|
| | | | 1st | 2nd |
| C112/212 | 50546120 | Tantalum 1 25V | | |
| C113/213 | 50546120 | Tantalum 1 25V | | |
| C114/214 | 50546220 | Tantalum 3.3 25V | | |
| C115/215 | 50549660 | Elec. 1 25V | | |
| C116/216 | 50554170 | Elec. 100 25V | | |
| C117/217 | 50554030 | Elec. 47 6.3V | | |
| C118/218 | 50548780 | Mylar 0.001 50V | | |
| C119/219 | 50554050 | Elec. 10 16V | | |
| C120/220 | 50544100 | Polyst. 82pF 50V | | |
| C121/221 | 50554030 | Elec. 47 6.3V | | |
| C122/222 | 50557090 | Elec. 10 25V | | |
| C123/223 | 50544120 | Polyst. 820pF 50V | | |
| C124/224 | 50554050 | Elec. 10 16V | | |
| C125/225 | 50554030 | Elec. 47 6.3V | | |
| C126/226 | 50554050 | Elec. 10 16V | | |
| C127/227 | 50554050 | Elec. 10 16V | | |
| C128/228 | 50544110 | Polyst. 47pF 50V | | |
| C129/229 | 50554050 | Elec. 10 16V | | |
| C130/230 | 50554050 | Elec. 10 16V | | |
| C131/231 | 50554030 | Elec. 47 6.3V | | |
| C132/232 | 50554490 | Elec. 47 25V | | |
| C133/233 | 50554180 | Elec. 220 25V | | |
| C134/234 | 50554050 | Elec. 10 16V | | |
| C135/235 | 50544110 | Polyst. 47pF 50V | | |
| C136/236 | 50554050 | Elec. 10 16V | | |
| C137/237 | 50554030 | Elec. 47 6.3V | | |
| C138/238 | 50554490 | Elec. 47 25V | | |
| C139/239 | 50554050 | Elec. 10 16V | | |
| C140/240 | 50548420 | Mylar 0.015 50V (A-7010GSL) | | |
| | 50548130 | Mylar 0.0047 50V (A-7030GSL) | | |
| C141/241 | 50548240 | Mylar 0.033 50V (A-7010GSL) | | |
| | 50548420 | Mylar 0.015 50V (A-7030GSL) | | |
| C142/242 | 50548680 | Mylar 0.33 50V | | |
| C142'/242' | 50548660 | Mylar 0.22 50V | | |
| C144/244 | 50554050 | Elec. 10 16V | | |
| C145/245 | 50546200 | Tantalum 10 25V | | |
| C146/246 | 50554770 | Elec. 47 16V | | |
| C147/247 | 50554230 | Elec. 100 6.3V | | |
| C148/248 | 50544120 | Polyst. 820pF 50V | | |
| C149/249 | 50554810 | Elec. 1 25V | | |
| C150/250 | 50554030 | Elec. 47 6.3V | | |
| C151/251 | 50546701 | Dipped Tantalum 1 35V | | |
| C152/252 | 50548131 | Mylar 0.0047 (A-7010GSL only) | | |
| C153/253 | 50548320 | Mylar 0.001 | | |
| C301 | 50557081 | Elec. 820 50V | | |
| C302 | 50554800 | Elec. 220 35V | | |
| C303 | 50554180 | Elec. 220 25V | | |
| C304 | 50557051 | Elec. 1000 25V | | |
| C313 | 50554770 | Elec. 47 16V | | |

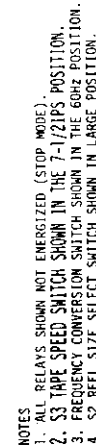
SIMPLIFIER CIRCUIT DIAGRAM

SIGNAL LEVEL AND DC VOLTAGE CHART



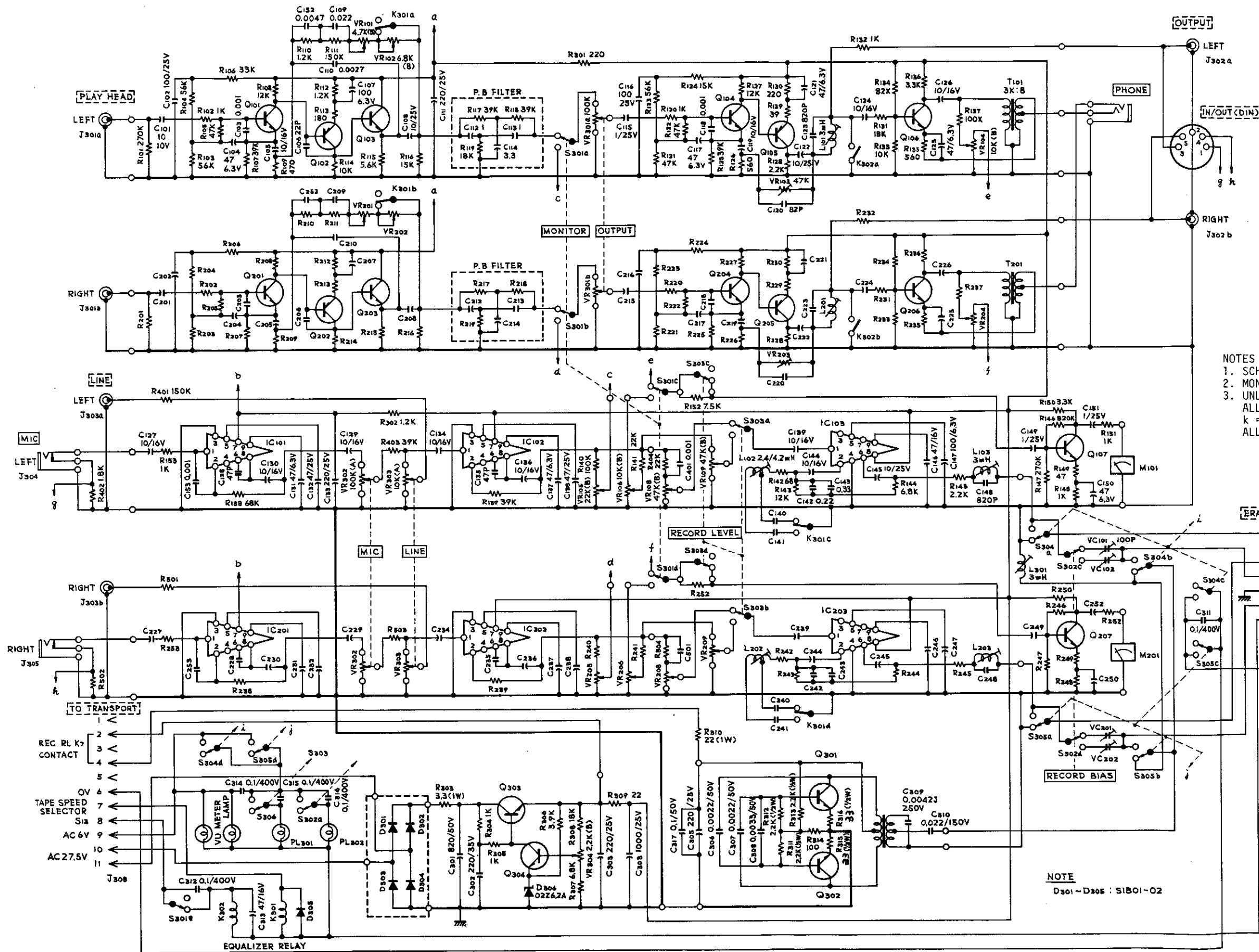
PS AMPLIFIER





PREAMPLIFIER

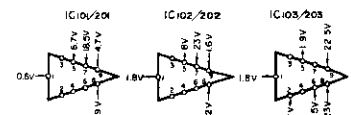
SCHEMATIC DIAGRAM
A-7010GSL/A-7030GSL



| PLAY EQ | A-7030GSL 7030GSL | A-6010GSL 6010GSL A-7010GSL 7010GSL |
|--------------|----------------------|--|
| R111, R211 | 120K | 150K |
| R109, R209 | 560K | 470K |
| R145, R245 | 1K | 2.2K |
| C110, C210 | 820PF | 0.0027μF |
| C109, C209 | 0.022μF | 0.022μF |
| C152, C252 | 0.01μF | 0.0047μF |
| VR101, VR201 | 2.2K (B) | 4.7K (B) |
| VR201, VR202 | 2.2K (B) | 6.8K (B) |

| REC EQ CAP. | A-7030GSL 7030GSL | A-6010GSL 6010GSL A-7010GSL 7010GSL |
|-------------|----------------------|--|
| C140, C240 | 0.0047μF | 0.015μF |
| C141, C241 | 0.015μF | 0.033μF |

- NOTES
 1. SCHEMATIC DIAGRAM SHOWN IN THE PLAYBACK MODE.
 2. MONITOR SWITCH SHOWN IN THE TAPE POSITION.
 3. UNLESS OTHERWISE SPECIFIED:
 ALL RESISTOR VALUES IN OHMS, 1/4 WATT,
 k = 1,000 OHMS
 ALL CAPACITOR VALUES IN MICROFARADS.



ERASE/RECORD HEAD

- 1
- 2
- 3
- 4
- 5
- 6 RECORD
- 7 EARTH
- 8 REC RL (K7) OV

| CIRCUIT REF NO. | DESCRIPTION |
|-----------------|--------------------|
| Q101, Q201 | 2SC1000 BL |
| Q102, Q202 | 2SA572YL4 |
| Q103, Q203 | 2SC536F |
| Q104, Q204 | 2SC693F |
| Q105, Q205 | 2SA494Y |
| Q106, Q206 | 2SC733Y OR 2SC536F |
| Q107, Q207 | 2SC733Y OR 2SC536F |
| Q301, Q302 | 2SC971 |
| Q303 | 2SD235 |
| Q304 | 2SC733Y |
| IC101, IC201 | TEAC 42709 |
| IC102, IC202 | TEAC 42709 |
| IC103, IC203 | TEAC 42710 |

NOTE
D301-D305 : S1B01-02

MANUAL CHANGES

Change notices, recommended modifications etc. will be issued for the models in this manual, when appropriate. These changes are in loose leaf form and should be filed behind this page for convenient reference.

TEAC MANUAL CHANGE SHEET

APPLICABLE SERIAL NO.
A-6010GSL, 72091 AND AFTER
A-7010GSL, 28191 AND AFTER

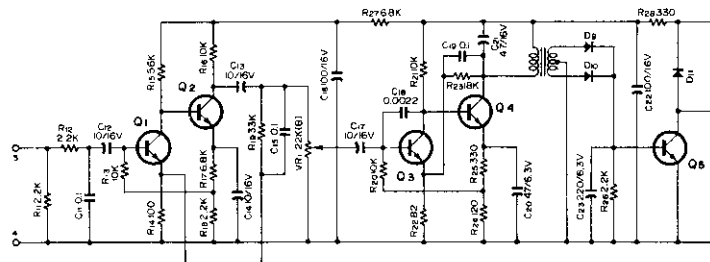
LOCATION IN SERVICE MANUAL

MODELS A-6010GSL, A-7010GSL

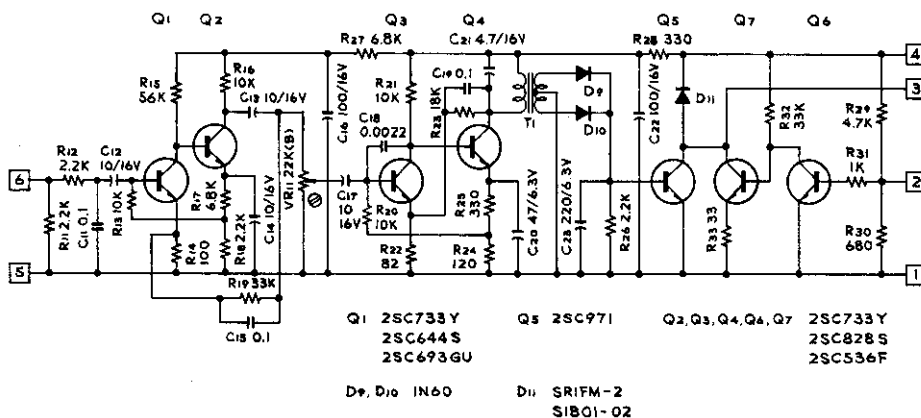
P.S. AMPLIFIER

P.S. AMPL. CIRCUIT CHANGE

The sensing post of the automatic reverse circuit has been the source of noise when using back-coated tapes, such as SONY SLH-BL, Scotch #206 or 207, and others. A new printed circuit board assembly is now being used to eliminate this problem. (See diagram.) If the customer desires, his older model may be modified to include this change. Order part #50491040



ORIGINAL CIRCUIT



REVISED CIRCUIT

TEAC[®] CHANGE SHEET

REFERENCE NO. 73-02-05

APPLICABLE SERIAL NO.

A-7010GSL 28291 AND AFTER

A-7030GSL 25841 AND AFTER

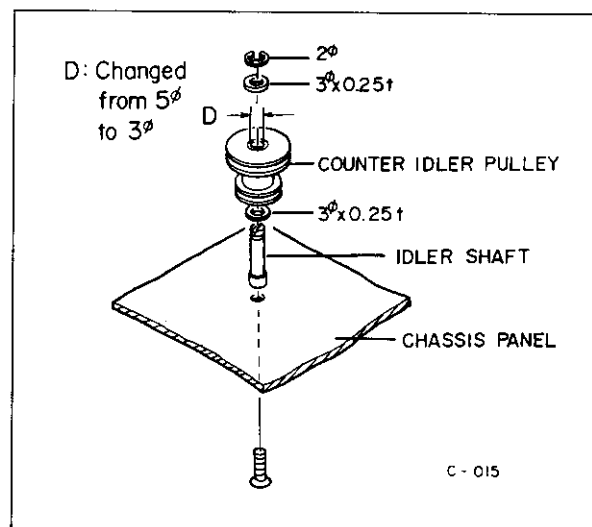
LOCATION IN SERVICE MANUAL

EXPLODED VIEW 5, BELOW THE MAIN CHASSIS

MODELS A-7010GSL, A-7030GSL**COUNTER IDLER PULLEY CHANGE**

In the A-7010GSL and A-7030GSL, the problem of friction noise from the Counter Idler Pulley high-speed rotation in FAST FWD or FAST REW operation has been eliminated by a newly designed Counter Idler Pulley. The ID of the pulley's center has been reduced from 5 ϕ to 3 ϕ and the OD of the Idler Pulley Shaft has likewise been reduced to 3 ϕ .

When replacing either the Idler Pulley Shaft or the Counter Idler Pulley, they must both be replaced at the same time, due to the incompatibility between the old and new diameters. This applies especially to the older models (before this change was incorporated) and it is also a good practice to replace both parts during any replacement to provide uniform wear characteristics between the parts.



Partial View of BELOW THE MAIN CHASSIS

| REF.NO. | DESCRIPTION | TEAC PARTS NO. | |
|---------|-----------------------|----------------|----------|
| | | OLD | NEW |
| 5-28 | Pulley, Counter Idler | 50124280 | 50125800 |
| 5-29 | Shaft, Idler Pulley | 50152580 | 50125830 |