

SHARP SERVICE MANUAL

VC-381H, W/
VC-383H

TVSM383455VCR

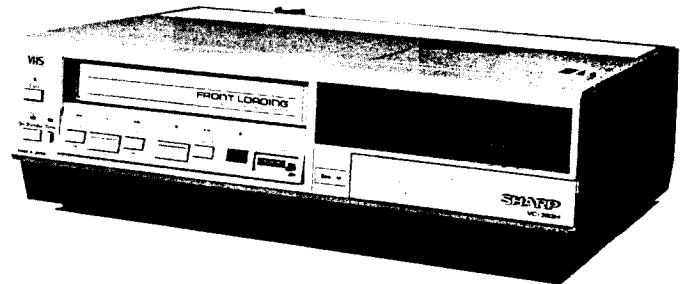
VHS VIDEO CASSETTE RECORDER

MODELS **VC-381H, W/VC-383H**

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
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MODEL VC-381H,W



MODEL VC-383H

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SPECIFICATIONS

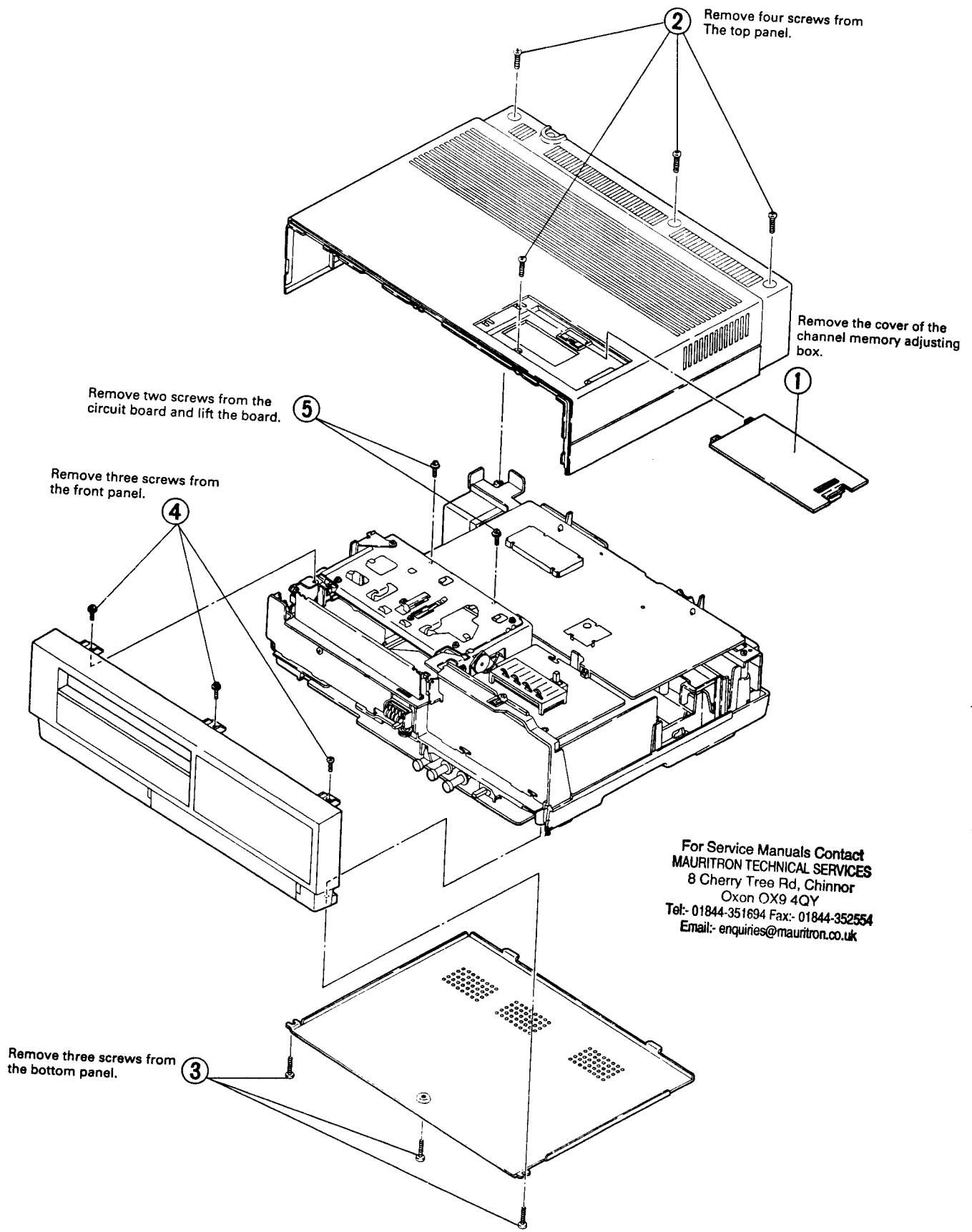
Format:	VHS PAL standard
Video recording system:	Two rotary head helical scan system
Video signal:	PAL colour and B/W signals, 625 lines
Recording/playing time:	4 hours max. with SHARP E-240 tape
Tape width:	12.7mm
Tape speed:	23.39mm/sec
Antenna:	75 ohm unbalanced
Receiving channel:	UHF channel 21 - 69
RF converter output signal:	UHF channel 30 - 39 (adjustable)
Power requirement:	AC 240V, 50Hz (VC-381H/VC-383H), AC 200V, 50z (VC-381W)
Power consumption:	Approx. 32W (with anti dew heater)
Operating temperature:	5°C to 40°C
Storage temperature:	-20°C to 55°C
Weight:	9.2kg
Dimensions:	430mm(W) × 362mm(D) × 133mm(H)
Video	
Input:	1.0Vp-p, 75 ohm
Output:	1.0Vp-p, 75 ohm
Audio	0 dB = 0.775V rms
Input:	Line: -20 dB, more than 50k ohm
Output:	Line: -5 dB, less than 1k ohm

ACCESSORIES INCLUDED Antenna 75 ohm coaxial connector cable (plug provided)
Owner's manual
Pause/Still Video Search (Forward and Reverse), FF, Rew, Play, Stop,
Wired Remote Control Unit. (VC-381W ... Only)

* Design and Specifications subject to change without notice.

Note: The antenna must correspond to the new standard DIN 45325 (IEC 169-2)
for combined UHF antenna with 75 ohm connector.

REMOVAL OF MAIN PARTS



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Figure 1.

MECHANICAL PARTS – LIST AND LAYOUT

• Top view

• Bottom view

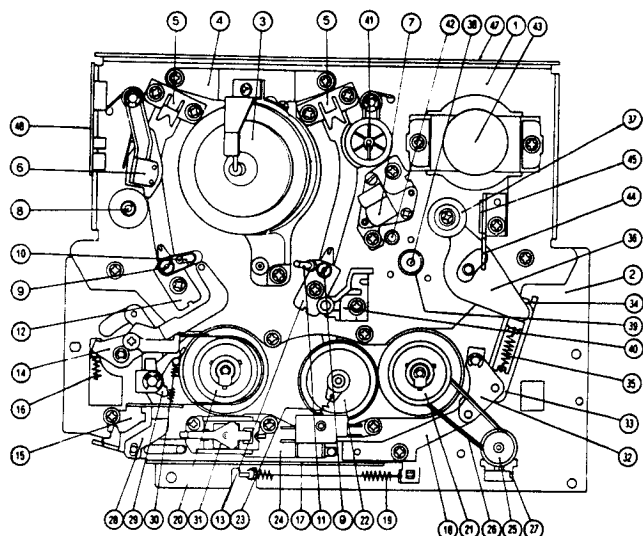


Figure 2.

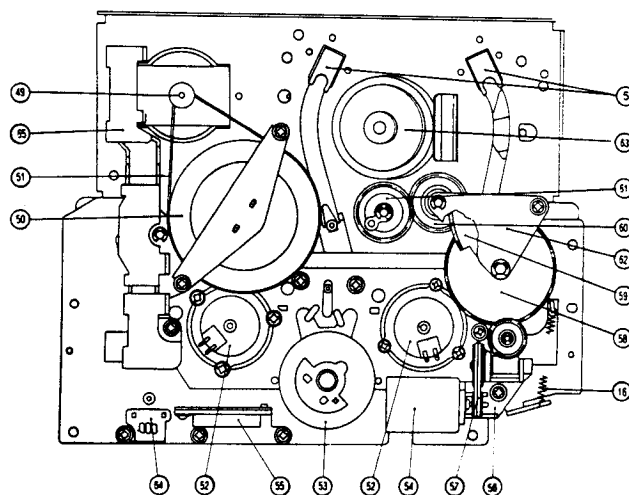


Figure 3.

No.	Description	No.	Description	No.	Description
1	A-chassis	23	Reel idler spring	45	DEW-sensor
2	B-chassis	24	Cassette down SW holder	46	Anti-jam angle
3	Drum	25	Reel pulser	47	Mechanism platform
4	V-base	26	Counter belt B8010	48	DPG plate
5	V-block (T/S)	27	Reel sensor	49	Capstan pulley
6	FE head	28	Shifter arm	50	Capstan flywheel
7	AC head	29	Auxiliary brake	51	Capstan belt
8	SI roller	30	Auxiliary brake spring	52	Reel brake unit
9	Guide roller (T/S)	31	Cassette down switch	53	Reel motor
10	S-slant pole	32	Pinch roller drive lever	54	L motor
11	T-slant pole	33	Pinch roller double-action lever U	55	Slide switch
12	Pole base A	34	Pinch roller double-action lever L	56	L-block
13	Pole base B	35	Pinch roller pressure spring	57	Loading belt
14	Tension arm	36	Pinch roller lever	58	Master cam
15	Tension band assembly	37	Pinch roller	59	Segment gear
16	Tension arm spring	38	Capstan shaft	60	Loading gear A
17	Shifter A	39	Capstan holder	61	Loading gear B
18	Shifter B	40	Cassette lamp	62	Loading gear plate
19	Shifter spring	41	TI roller	63	Drum DD motor
20	Supply reel disk	42	Fixed guide	64	Reel sensor base
21	Take-up reel disk	43	Capstan motor	65	Wire holder
22	Reel idler	44	Open angle		

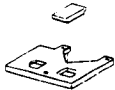




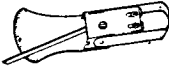
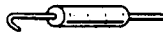
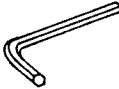
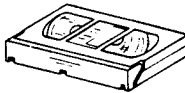
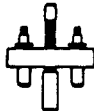

ADJUSTMENT, REPLACEMENT, ASSEMBLING, CLEANING OF THE MECHANICAL UNITS

We will here describe a relatively easier service work (at the field) not referring to the more complicated work which requires a high technique (maybe with the assistance by special equipment and tools)-leave only a qualified man to

the drum assembly or replacement, for example. Of course, various easy-to-handle tools are needed for a periodical maintenance to keep the machine best in its original efficiency.

● TOOLS NECESSARY FOR ADJUSTING THE MECHANICAL UNITS

The following tools are recommended for proper service and satisfactorily repair.

	Jig Item.	Parts No.	Configuration.	Remarks	
1	Master Plane and Reel Disk Height Adjusting Jig.	JIGMA0001		This jig is used for checking and adjusting of relative mechanical heights between Reel Disk and Stay.	
2	Guide Pole Height Adjusting Jig.	JIGGH0110		This jig is used for height adjustment of the running tape to Video Head	
3	X-Position Adjustment Jig.	JIGXP0004		This jig is used for adjusting A/C, AE Head, and has a special configuration.	
4	Torque Gauge	JiGTG1200		These jigs are used for checking and adjusting the torque of Take up/Supply Reel.	
	Torque Gauge	JiGTG0090			
5	Gauge Head	JiGTH0006			
6	Tension Gauge (300g)	JiGSG0300			There are several Gauges used for the tension measurements, and required 300g and 5.0kg.
	Tension Gauge (5.0kg)	JiGSG5000			
7	Hex Wrench (0.9mm)	JiGHW0009		These jigs are used for locking or tightening special Hexagon type screws.	
	Hex Wrench (1.2mm)	JiGHW0012			
	Hex Wrench (1.5mm)	JiGHW0015			
8	Alignment Tape (PAL)	VROAMSV		This tape is especially used for electrical fine adjustment.	
9	Drum Replacement Jig	JIGDT-0001		These jigs are used for the replacement of VCR's upper drum.	
10	DD Roter Ass'y Setting Jig	JIGGAST110		This jig is used for the replacement of D.D. Motor	

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MECHANICAL PARTS REQUIRING PERIODICAL INSPECTION

Use the following table as a guide to maintain the mechanical parts in good operating condition all the time.

Component	Hours	500 hrs.	1,000 hrs.	1,500 hrs.	2,000 hrs.	3,000 hrs.	Remarks
Guide roller assembly		□	□	□	□	□	Replace one if it runs improperly or sways.
SI roller		□	□	□	□	□	
SI roller inner			□		□	□	Clean with industrial methyl alcohol.
SI roller flange A		□	□	□	□	□	Clean the tape passages. Use the designated cleaning liquid.
SI roller flange B		□	□	□	□	□	
TI roller		□	□	□	□	□	
Fixed guide		□	□	□	□	□	
Guide flange B		□	□	□	□	□	
Slant pole		□	□	□	□	□	
Video head		□	○ □	□	○ □	○ □	Clean the tape passages. Use the designated cleaning liquid.
FE head		□	□	□	□	□	
AC head		□	□	□	□	□	
Loading belt			□		○		Clean rubber parts and where coming into contact with rubber. Use the designated cleaning liquid.
Capstan belt			□		○		
Counter belt					○		
Pinch roller		□	□	□	□	○ □	
Reel idler		□	□	□	□	○ □	
Reel motor pulley		□	□	□	□	□	Clean parts which come into contact with rubber.
Reel motor					○		
Capstan motor					○		
Loading motor					○		
Supply & take-up reel disks			□ △		□ △		Clean with industrial methyl alcohol.
Tension band assembly						○	
Brake unit						○	

○: Replace □: Clean △: Oil

CASSETTE HOUSING REMOVAL AND REASSEMBLY

• How to remove

- 1) Keeping a cassette tape down in the operating position, remove two screws fastening the down guide then the down guide itself.
- 2) Depress the eject button and remove the cassette tape.
- 3) Disconnect the connector at the left side of the cassette housing. (Be careful not to break off leads.)
- 4) Remove four screws fastening the cassette housing. Then pull out the cassette controller assembly right upward.

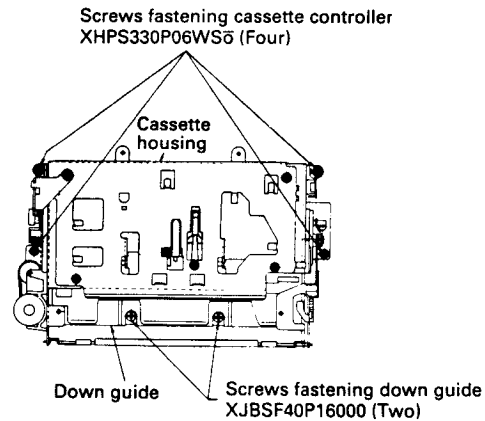


Figure 4.

● **Precautions for removal and reassembly**

- 1) When removing or replacing the cassette housing, move it straight upward or downward from or to its position. Do not let it contact nearby guide pins.
- 2) The down guide is positioned by the fixed guides located on both sides at the inside of the cassette housing. Align the down guide accurately with the positioning guides.
- 3) When unscrewing or screwing the cassette housing, be sure to disconnect the connector at the left side of the cassette housing.

● **Reassembly**

- 1) Place the cassette housing at its position and fasten it with four screws (XHPS330P06WS0).
- 2) Connect the connector at the left side of the cassette housing.
- 3) Place the down guide at its position and fasten it with two screws (XJBSF40P16000).

WHEN RUNNING TAPE WITHOUT CASSETTE HOUSING PLACED

- 1) Open the lid of the video cassette tape and fasten it with PVC tape.
- 2) Load the video cassette tape to its position in the transport. Pace a weight (of some 500g) on it to prevent it from moving up away.

Note: Do not use a weight heavier than 500g.

REEL DISK REPLACEMENT AND HEIGHT CHECK

● **Removal**

(Supply reel disk)

- 1) Remove the tension band.
- 2) Remove E-ring (1).
- 3) Remove clearance-adjusting washer (2).
- 4) Remove supply reel disk (3) upward.

(Take-up reel disk)

- 1) Remove counter belt (6).
- 2) Remove E-ring (1).
- 3) Remove clearance-adjusting washer (2).
- 4) Remove take-up reel disk (4) upward.
 - Remove height-adjusting washer (5) at the same time and clean it.

Precaution:

1. Be sure to adjust reel disk height when replacing it to its position.
2. Be careful not to deform the tension hand during removal and reassembly.
3. Use care not to deform the auxiliary brake lever.
4. Check and adjust the position of the tension pole.
5. The supply reel disk is to engage with the pawl of the slip plate of the reel unit. Turn the reel disk lightly by hand to assemble them.

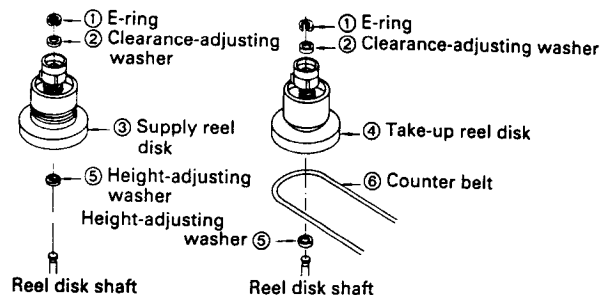


Figure 5.

● **Reassembly**

(Supply reel disk)

- 1) Clean the reel disk shaft and place height-adjusting washer (5).
- 2) Place a new supply reel disk.
- 3) Adjust reel disk height with the master plane and reel height adjusting jig.
- 4) Remove the new supply reel disk and, after applying oil to the reel disk shaft, replace the supply reel disk back.
- 5) Place clearance-adjusting washer (2). (Play of the reel disk should be 0.1 – 0.5mm in the direction of the shaft.)
- 6) Place E-ring (1).
- 7) Place the tension band.

(Take-up reel disk)

- 1) Clean the reel disk shaft and place height-adjusting washer (5).
- 2) Place a new take-up reel disk.
- 3) Adjust reel disk height with the master plane and reel height adjusting jig.
- 4) Remove the new take-up reel disk and, after applying oil to the reel disk shaft, replace the take-up reel disk back.
- 5) Place clearance-adjusting washer (2). (Play of the reel disk should be 0.1 – 0.5mm in the direction of the shaft.)
- 6) Place E-ring (1).
- 7) Place counter belt (6).

Precaution:

1. Use care not to scratch the reel disk shaft with the E-ring and tools during removal and reassembly.
2. Check V/S back tension according to 9 page after reassembly.
3. The take-up reel disk is to engage with the pawl of the slip plate of the reel unit. Turn the reel disk lightly by hand to assemble them.

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HEIGHT CHECK AND ADJUSTMENT

- 1) Remove the cassette housing. Set the master plane in the mechanism as shown in Figure 6(a). Use care so that the master plane should not contact the drum.
- 2) Using the reel disk height adjusting jib, check if the top of the reel disk is lower than A and higher than B (see Figure 6(b)). If the height is wrong, make adjustment with height-adjusting washer(s).

Vertical play should be 0.1 – 0.5mm finally.

Caution: After reel disk replacement, be sure to check and adjust its height.

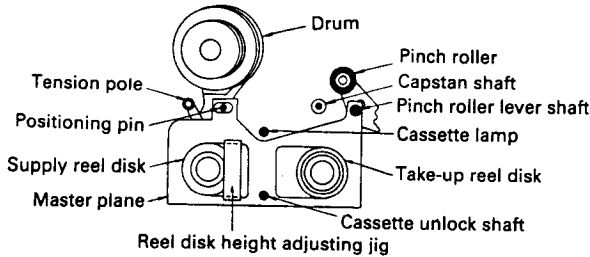


Figure 6(a).

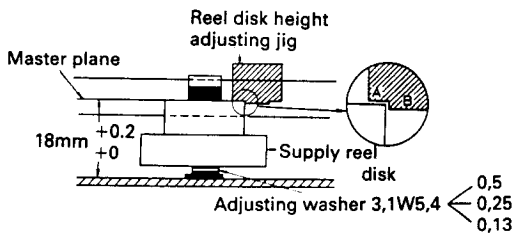


Figure 6(b).

FAST-FORWARDING/WINDING TORQUE CHECK AND ADJUSTMENT

Precautions:

1. Use care so that the torque gauge mounted on the reel disk should not be driven away when the reel disk starts to run with the fast-forward button depressed.
2. Do not load any video cassette tape in this case.

• Checking Procedure

- 1) Remove the cassette housing. Hold the cassette down switch with PVC tape.

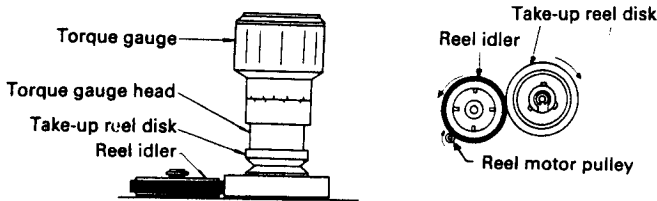


Figure 7(a).

Figure 7(b).

- 2) Mount a torque gauge on the take-up reel disk. Depress the fast-forward button.
- 3) Turn the torque gauge slowly (once for every 2-3 seconds) by hand for tighter torque. With a torque of more than 800g-cm, check that there is no slip between the reel idler and the reel motor pulley or take-up reel disk.

• Adjustment

If fast-forwarding torque is not as high as specified, clean the reel motor pulley, reel idler, and take-up reel disk with the cleaning liquid then check torque again.

REWINDING/WINDING TORQUE CHECK AND ADJUSTMENT

Precautions:

1. Use care so that the torque gauge mounted on the reel disk should not be driven away when the reel disk starts to run with the rewind button depressed.
2. Do not load any video cassette tape in this case.

• Checking Procedure

- 1) Remove the cassette housing. Hold the cassette down switch with PVC tape.
- 2) Mount a torque gauge on the supply reel disk. Then depress the rewind button.
- 3) Turn the torque gauge slowly (once for every 2-3 seconds) by hand for tighter torque. With a torque of more than 800g-cm, check that there is no slip between the reel idler and the reel motor pulley or supply reel disk.

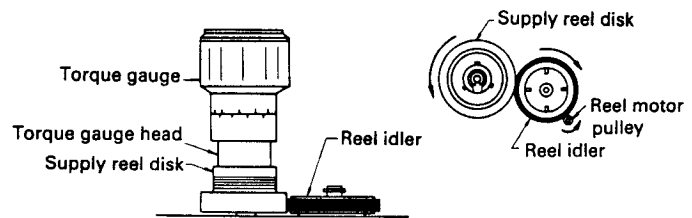


Figure 8(a).

Figure 8(b).

• Adjustment

If rewinding/winding torque is not as high as specified, clean the reel motor pulley, reel idler, and supply reel disk with the cleaning liquid then check torque again.

WIDING TORQUE CHECK AND ADJUSTMENT

• Checking Procedure

- 1) Remove the cassette housing. Hold the cassette down switch with PVC tape.
- 2) Mount a torque gauge on the take-up reel disk. Turn the torque gauge in normal speed to confirm that the torque is in the range of (175 ± 20) g-cm.

• Adjustment (See Figure 9.)

- 1) If winding torque during play mode is not as specified, make adjustment with a variable resistor.

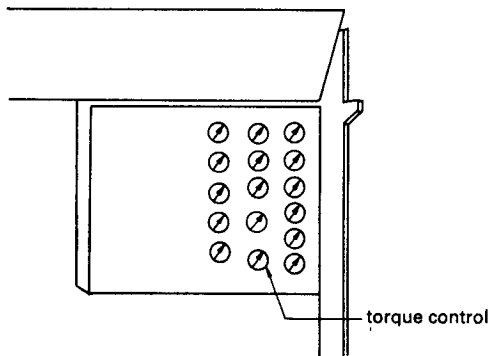


Figure 9.

CHECK OF FAST-FORWARD-TIME BACK TENSION

Precaution:

1. Mount the torque gauge properly on the reel disk. If it is not installed firmly, results of measurement might not be correct.
2. Fast-forward-time back tension is equal to loading back tension of the supply side. So, this step may not be performed if loading back tension has been checked.

• Checking Procedure

- 1) Remove the cassette housing. Hold the cassette down switch with PVC tape.
- 2) Depress the fast-forward button.
- 3) Mount a torque gauge on the supply reel disk. Turning it counterclockwise slowly (at a speed of a turn for every 2-3 seconds), check if the reading is in the range of 10 ~ 20g-cm.

CHECK OF REWIND-TIME BACK TENSION

Precaution:

1. Mount the torque gauge properly on the reel disk. If it is not installed firmly, results of measurement might not be correct.
2. Rewind-time back tension is equal to back tension of V/S-REW. So, this step may not be performed if back tension of V/S-REW has been checked.

• Checking Procedure

- 1) Remove the cassette housing. Hold the cassette down switch with PVC tape.
- 2) Depress the rewind button.
- 3) Mount a torque gauge on the take-up reel disk. Turning it counterclockwise slowly (at a speed of a turn for every 2-3 seconds), check if the reading is below 15g-cm.

CHECK OF VIDEO SEARCH FORWARD TIME BACK TENSION

Precaution:

1. Check and adjust back tension of V/S FWD time after adjustment of tension arm position.
2. Mount the torque gauge properly on the reel disk. If it is not installed firmly, results of measurement might not be correct.
3. If back tension of V/S FWD time is not in the range of 10 ~ 20g-cm adjust the auxiliary brake spring. Then check back tension again.

• Checking Procedure

- 1) Remove the cassette housing.
- 2) Hold the cassette down switch with PVC tape.
- 3) Depress the play button.
- 4) Selecting V/S FWD mode by depressing the V/S FWD button, check that auxiliary brake is acting on the supply reel disk.
- 5) Mount a torque gauge on the supply reel disk. Turning it slowly (at a speed of a turn for every 2-3 seconds), check if the reading is in the range of 10 ~ 20g-cm.

CHECK OF VIDEO SEARCH REVERSE TIME BACK TENSION

Precaution:

1. Mount the torque gauge properly on the reel disk. If it is not installed firmly, results of measurement might not be correct.
2. Back tension of V/S REV time is equal to that of rewind time. So, this step may not be performed if back tension of rewind time has been checked.

• Checking Procedure

- 1) Remove the cassette housing.
- 2) Hold the cassette down switch with PVC tape.
- 3) Depress the play button.
- 4) Select V/S REV mode by depressing the rewind play button.
- 5) Mount a torque gauge on the take-up reel disk. Turning it slowly (at a speed of a turn for every 2-3 seconds), check if the reading is smaller than 15g-cm.

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CHECKING PROCEDURE OF PINCH ROLLER PRESSURE

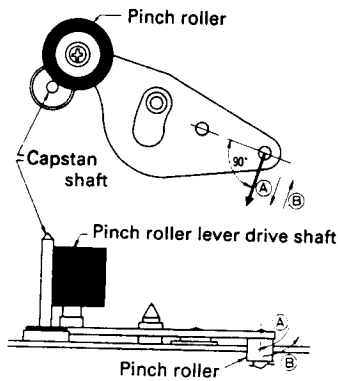


Figure 10.

- 1) Remove the cassette housing. Hold the cassette down switch with PVC tape.
- 2) Depress the play button.
- 3) Bring the pinch roller apart from the capstan shaft by pulling it in the direction of (A).
- 4) Permitting the pinch roller to return (move in the direction of (B)), measure force which the pinch roller exerts when it just contacts the capstan shaft. (Pull the pinch roller lever drive shaft with a spring balance to measure the force.)
- 5) Check that the reading is in the range of 1900 ~ 2740g-cm.

CHECKING PROCEDURE AND ADJUSTMENT OF CAPSTAN SHAFT-PINCH ROLLER CLEARANCE DURING PAUSE IN RECORD MODE

• Checking Procedure

- 1) Remove the cassette housing.
- 2) Hold the cassette down switch with PVC tape.
- 3) Depress the record button.
- 4) Depress the pause button.
- 5) In this condition, check by inspection that the clearance between the pinch roller and capstan shaft is 0.7 ~ 1.2mm.

• Adjustment

- 1) If the pinch roller-capstan shaft clearance is not as specified, loosen the screw (XBPSD30P06JS $\bar{\sigma}$) which fastens shifters A and B and make adjustment.
- 2) After adjustment, apply lock paint to the screw (XBPSD30P06JS $\bar{\sigma}$).

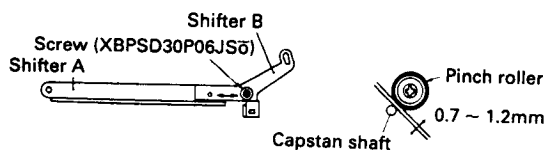
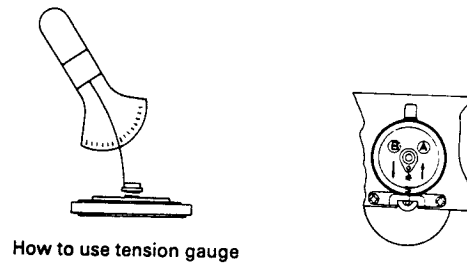


Figure 11.

CHECKING PROCEDURE OF REEL IDLER PRESSURE



How to use tension gauge

Figure 12.

- 1) Remove the cassette housing.
- 2) Move the reel idler toward the center (see Figure 12).
- 3) Separate the reel idler from the reel motor pulley by pushing the reel idler with a tension gauge in the direction of (A) (see Figure 12).
- 4) Permitting the reel idler to return in the direction of (B) slowly, check that the tension gauge reads 120 ~ 170g when the reel idler just comes into contact with the reel motor.

CHECKING PROCEDURE AND ADJUSTMENT OF TENSION POLE POSITION

• Checking Procedure

- 1) Remove the cassette housing.
- 2) Load a video cassette tape and depress the play button.
- 3) Loading starts when pole bases A and B draw tape out of the cassette and the tension pole moves to the left simultaneously. Check the position of the tension pole in this condition.
- 4) Check by inspection that the center of the tension pole is 0.5 - 1.0mm on the left of the SI roller's center at around the end of tape (E-180).
- 5) Check that the video tape is neither curled at the flange of the SI roller nor runs over the flange.
- 6) Check that the tension band is released from the reel disk during video search.

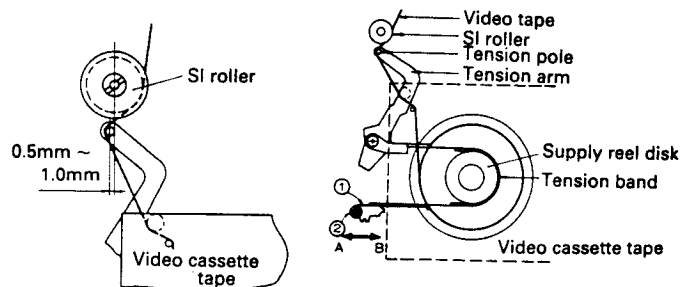


Figure 13.

Figure 14.

● **Adjustment**

- 1) If the distance between the tension pole and SI roller, measured at their centers, is smaller than 0.5mm, move tension band adjusting angle (1) in the direction of B (See Figure 14) then tighten screw (2).
- 2) If the distance between the tension pole and SI roller, measured at their centers, is greater than 1.0mm, move tension band adjusting angle (1) in the direction of A (see Figure 14) then tighten screw (2).

Precaution:

1. Be sure to apply locking paint to the screw after adjustment.
2. Do not tighten the screw excessively: otherwise threads cut in the chassis would break.

CHECK AND ADJUSTMENT OF TENSION POLE VERTICALITY

● **Checking Procedure**

- 1) Remove the cassette housing and hold the cassette down switch PVC tape.
- 2) Install the fixed guide height adjusting jig as shown in Figure 15.
- 3) Check verticality of the tension pole is perpendicular (90°) to the main chassis.

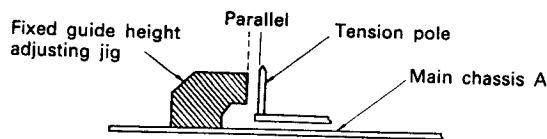


Figure 15.

CHECK AND ADJUSTMENT OF BACK TENSION DURING RECORD AND PLAYBACK

● **Checking Procedure**

With the back tension test cassette

- 1) Remove the cassette housing and hold the cassette down switch with PVC tape.
- 2) Load the back tension test cassette tape.
- 3) Depress the play button. Check that back tension is 50 – 57g-cm in play mode (look at the needle of the back tension test tape).
- 4) Check that the video tape is running around the fixed guide.
- 5) Check that the tape is tight and edges are not damaged at the beginning and end of tape.

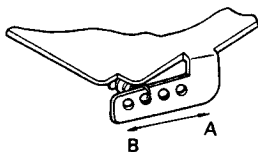


Figure 16.

● **Adjustment**

- 1) If the tape tension is weak (smaller than 50 – 57g-cm), move the hook of the spring toward A (see Figure 16) and check tape tension again.
- 2) If the tape tension is strong (smaller than 50 – 57g-cm), move the hook of the spring toward B (see Figure 16) and check tape tension again.
- 3) When the hook of the spring has been moved, fasten it with bonding agent.

CHECKING PROCEDURE OF REEL BRAKE TORQUE

1. Checking procedure of supply side medium brake

Precaution:

1. Check medium brake earlier than strong brake.
2. Make measurement within 10 seconds after plugging the power cord and remove the shorting.
3. Check supply side medium brake torque with rotation of both clockwise and counterclockwise directions.
4. Supply side medium brake torque should be more than 100g-cm which is less than half of take-up side strong brake.

● **Checking Procedure**

- 1) Remove the cassette housing.
- 2) Unplug the power cord and short the R803 side of R801 mounted on the system control board to the ground.
- 3) Separate the reel idler from the supply reel disk and install a torque gauge.
- 4) Plug the power cord.
- 5) Turning the torque gauge slowly (at a speed of a turn for every 2-3 seconds), check that supply side medium brake torque is more than 100g-cm.

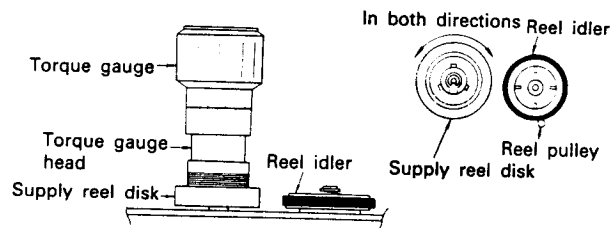


Figure 17.

2. Checking procedure of take-up side medium brake

Precaution:

1. Check medium brake earlier than strong brake.
2. Make measurement within 10 seconds after plugging the power cord and remove the shorting.
3. Check take-up side medium brake torque with rotation of both clockwise and counterclockwise directions.
4. Supply side medium brake torque should be more than 100g-cm which is less than half of supply side strong brake.

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● **Checking Procedure**

- 1) Remove the cassette housing.
- 2) Unplug the power cord and short the R804 side of R802 mounted on the system control board to the ground.
- 3) Separate the reel idler from the take-up reel disk and install a torque gauge.
- 4) Plug the power cord.
- 5) Turning the torque gauge slowly (at a speed of a turn for every 2-3 seconds), check that take-up side medium brake torque is more than 300g-cm.

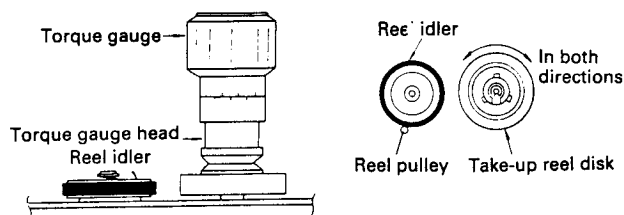


Figure 18.

3. Checking procedure of supply side strong brake

Caution:

1. Make measurement within 10 seconds after plugging the power cord and remove the shorting.
2. Check strong brake later than medium brake.

● **Checking Procedure**

- 1) Remove the cassette housing.
- 2) Unplug the power cord and short pin ⑤ of AA of the system control board to the ground.
- 3) Separate the reel idler from the supply reel disk and install a torque gauge.
- 4) Plug the power cord.
- 5) Turning the torque gauge clockwise slowly (at a speed of a turn for every 2-3 seconds), check that supply side strong brake torque is more than 300g-cm and more than twice as large as take-up side medium brake torque.

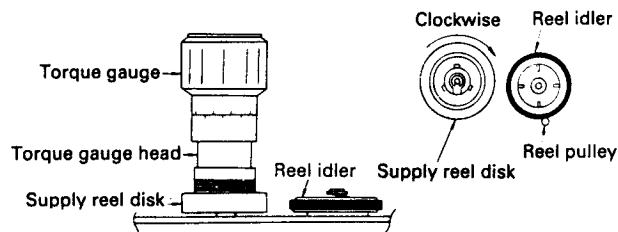


Figure 19.

4. Checking procedure of take-up side strong brake

Caution:

1. Make measurement within 10 seconds after plugging the power cord and remove the shorting.
2. Check strong brake later than medium brake.

● **Checking Procedure**

- 1) Remove the cassette housing.
- 2) Unplug the power cord and short pin ⑥ of AA of the system control board to the ground.

- 3) Separate the reel idler from the take-up reel disk and install a torque gauge.
- 4) Plug the power cord.
- 5) Turning the torque gauge counterclockwise slowly (at a speed of a turn for every 2-3 seconds), check that take-up side strong brake torque is more than 300g-cm and more than twice as large as supply side medium brake torque.

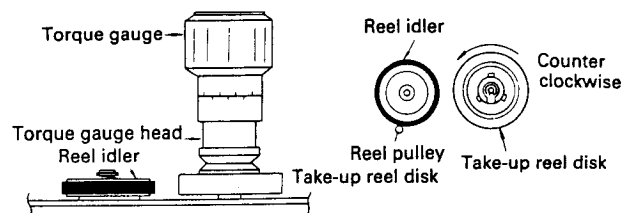


Figure 20.

CHECKING PROCEDURE AND ADJUSTMENT OF SI ROLLER FIXED GUIDE

● **Checking Procedure**

- 1) When a video tape is running, check that the tape is neither crumpled nor folded at its edges (see Figure 21).

● **Adjustment**

Perform the following only when the SI roller fixed guide is really out of position.

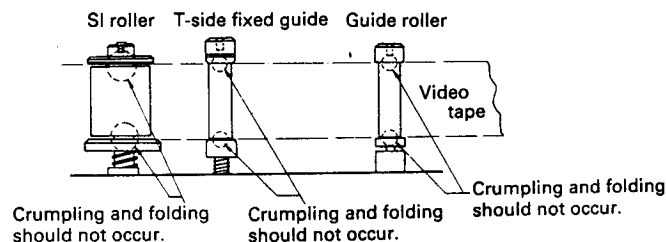


Figure 21.

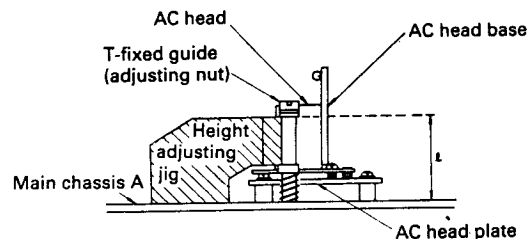


Figure 22.

Requirement
$l = 26.35 \pm_{0}^{0.1} \text{mm}$

- 1) Install the guide height adjusting jig on main chassis A (see Figure 22).
- 2) Turn the adjusting nut at the top of the fixed guide and SI roller slowly to meet the requirement ($l = 26.35 \pm_{0}^{0.1} \text{mm}$).

Precaution:

1. After adjustment, check again when the tape is running.
2. After adjustment, be sure to adjust tape travel and the guide rollers (T and S). Then check the height of the SI roller fixed guide as shown in Figure 21.
 - Never move the nut after completion of adjustment.

A/C HEAD REPLACEMENT

Precaution:

After replacement, be sure to adjust tape travel. During replacement, never touch the head surface by hand (where indicated with in Figure 24).

• **Replacement**

- 1) Unsolder the leads of the A/C head base and remove them.
- 2) Loosen two set screws (2) with a hex wrench.
- 3) Remove screw (3) (3P + 8S) with a screwdriver.
- 4) Remove A/C head screw (4) with a screwdriver.

Note: The A/C head screw is screwed with a spring installed together.
- 5) Remove the A/C head base fitted to the A/C head assembly.
- 6) Replace A/C head assembly (5) all together.

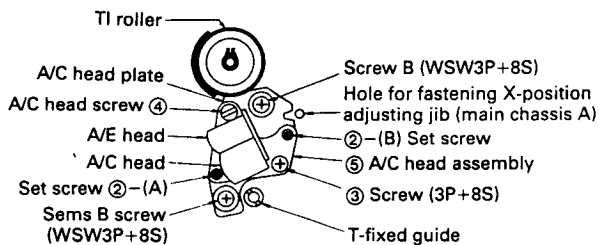


Figure 23.

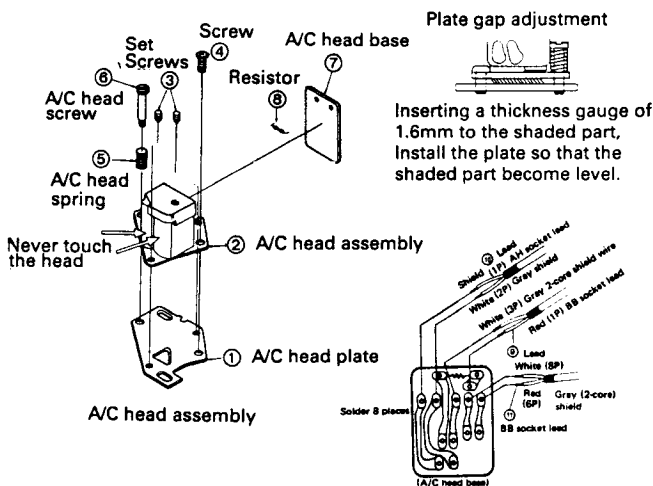


Figure 24.

CHECKING PROCEDURE AND ADJUSTMENT OF A/C HEAD HEIGHT AND TILT

• **Checking Procedure**

- 1) Load a 180-minute-long tape and select play mode.
- 2) Check that the tape is not curled at the flange of the T-fixed guide.
- 3) Check that the height and tilt of the A/C head are just as shown in Figure 25 in relation to the tape.

• **Adjustment**

- If the tape does not travel properly, perform the following (see Figure 23 and 25).
- 1) Load a 180-minute-long tape and check tape travel in play mode.
 - 2) Check that the tape travels smoothly with its surface kept level between the guide roller and T-impedance roller, between the T-impedance roller and T-fixed guide, and between the T-fixed guide and capstan shaft.
 - 3) If the tape skews between the A/C head and T-fixed guide, it is impossible to obtain proper pictures. So, check that the tape does not run over the flange of the T-fixed guide and even fine wrinkles do not develop.
 - 4) If the above requirements are not met, make adjustment with screw (2)-A and (2)-B. Turn them little by little.

Note: Do not move the T-fixed guide.
 - 5) Check that the height of the A/C head is as shown in Figure 25 in relation to the tape.

- When the tape travels smoothly around the A/C head and coarse adjustment of its height is complete, adjust head height and azimuth next.

- 1) Playing back AUDIO (1kHz) (picture is colour bars) of the alignment tape, observe waveform with an oscilloscope at TP-602 (GND is TP-603) of the audio board.
- 2) Turn set screws(2)-A and (2)-B and screw (3) so that the level become maximum first, then level variation becomes minimum while level is maximum.
- 3) Playing back AUDIO (7kHz) (picture is stepped wave) of the alignment tape, observe waveform at TP-602 (GND is TP-603) of the audio board.
- 4) Maximize AUDIO output level with azimuth adjusting screw (3) (3P + 8S).
- 5) Check tape travel again.

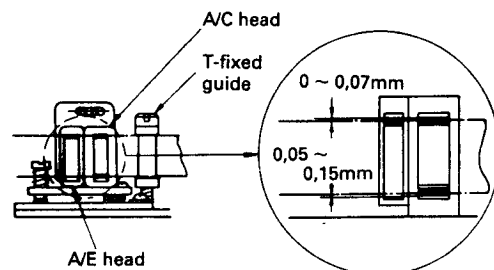


Figure 25.

TAPE TRAVEL ADJUSTMENT

- 1) Check and adjust reel disk height with the master plane and reel disk height adjusting jig.
- 2) Check and adjust the height of the SI roller and fixed guide using the fixed guide height adjusting jig (refer to 12 page).
- 3) Check and adjust the position and verticality of the tension pole using the tension pole position adjusting jib (refer to 10 page).
- 4) Playing back the tape of coarse adjustment (refer to 14 page), perform coarse adjustment of guide roller height using a screwdriver provided for the purpose so that the tape bottom edge be in line with the drum lead. Then check that the tape is not curled at the flanges of the T-and S-guide rollers.
- 5) Playing back the test tape (refer to 14 page), adjust the height of the guide roller so that envelope become level and levelness do not deteriorate so much even when the tracking control is turned. Also adjust SW point to $6.5 \pm 0.5H$.
- 6) Adjust the height, tilt, and azimuth of the AC head (refer to 13 page).
- 7) Set the tracking control at its preset position. Loosen two sems B screws (WSW3P + 8S) (see Figure 23)

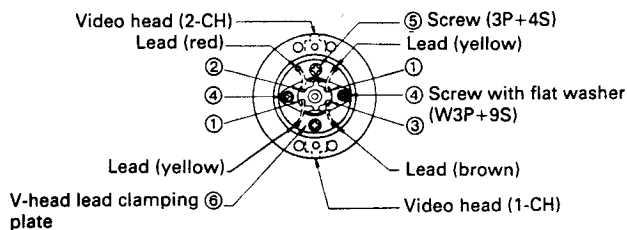


Figure 26.

slightly and install the X-position adjusting jig at its hole. Then adjust the position of the AC head so that envelope become maximum.

- 8) Check levelness of envelope and sounds by self recording.
- 9) After completion of adjustments, apply locking paint to the adjusting screws and nuts.

UPPER DRUM REPLACEMENT

• Replacement

- 1) Remove two fastening screws (5) (3P + 4S) with a screwdriver.
- 2) Remove V-head lead retaining plate (6).
- 3) Unsolder two leads (1) (yellow) and remove them.
- 4) Unsolder lead (2) (red) and remove it.
- 5) Unsolder lead (3) (brown) and remove it.
- 6) Remove two fastening screws with flat washer (4) (W3P + 9S) with a screwdriver.
- 7) Remove the upper drum upward and replace it.

Precaution:

Do not touch the drum surface directly by hand.

• Reassembly

- 1) Install the replacing drum as shown in Figure 26 and direct it so that the leads of specific colors come just as illustrated.

Precaution:

Connect the yellow and brown leads to CH-1 and the red and yellow leads to CH-2.

- 2) Fix the upper drum with two screws (4).
- 3) Solder leads (1), (2), and (3) to the proper locations.

Precaution:

Solder leads in a short time. Check that there are no scratches on the round and end surfaces of the disk and the inside and end surfaces of the upper drum. Do not admit dust into the drum.

- 4) Fasten VH lead retaining plate (6) with screw (5).
- 5) After replacement is complete, be sure to perform check and adjustment of tape travel and electrical adjustment of the following items.
 - (1) Adjustment of playback switching point
 - (2) Adjustment of record switching point
 - (3) Check of tracking preset
 - (4) Check of tracking control
 - (5) Check of head resonance and Q
 - (6) Check of FM channel balance

GUIDE ROLLER ADJUSTMENT

• Video tape setting

- 1) Remove the upper enclosure.
- 2) Load the alignment tape in the cassette housing.
- 3) Plug the power cord, monitor output cord, and video input cord to the proper locations.
- 4) Connect CH-1 of an oscilloscope to RF envelop output TP308 and CH-2 to switching pulse TP309.
- 5) Depress the play button.

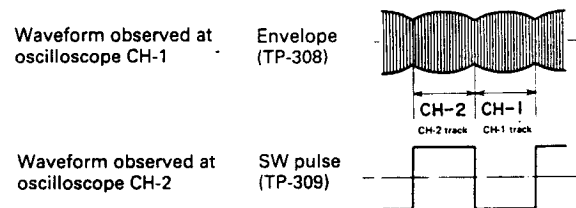


Figure 27.

• Adjustment

- 1) Screw the guide roller set screw for maximum tightness but that it can be turned with the guide roller adjusting screwdriver with a moderate force.
- 2) Observe envelope by triggering with SW pulse (see Figure 27).
- 3) Looking at the envelope adjust guide roller height so that the tape runs along the drum lead. The envelope waveform will appear as shown in Figures 28 or 29 if the video tape runs above or below the helical lead position.

- a. Envelope waveform when the video tape runs above the helical lead position.

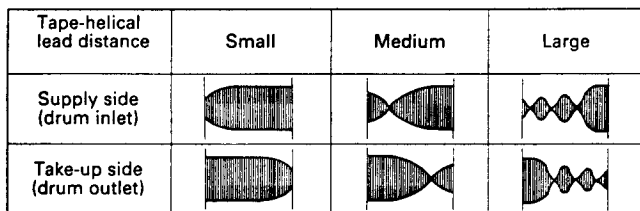


Figure 28.

- b. Envelope waveform when the video tape runs below the helical lead position.

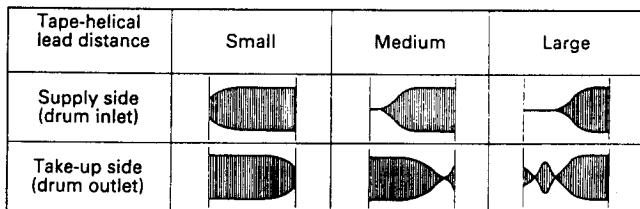


Figure 29.

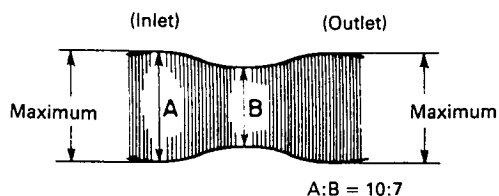


Figure 30.

- 4) Looking at the envelope waveform, fine-adjust guide roller height to make envelope flat. Make adjustment so that levelness do not deteriorate even when the tracking control is turned.
- 5) Make adjustment in such a manner that, in Figure 30, the ratio of B to A is greater than 7/10 even when the tracking control is moved and width A of the RF waveform begins to decrease.
- 6) Adjust playback SW point (refer to the relevant section in Electrical Adjustment).
- 7) Record colour bars and play them back. Check that envelope is flat.
- 8) After adjustment, tighten the guide roller firmly.
- 9) Check RF envelope again.

REEL UNIT REPLACEMENT

1. Reel motor replacement

• Removal

- 1) Remove the cassette housing.
- 2) Unsolder the leads from the reel motor terminals.
- 3) Remove the two screws (XHPSD30P10WS0) which fasten the cassette down SW holder and move the holder slightly. (Be careful not to cut off the leads of the cassette down SW.) (See Figure 31.)
- 4) Remove the two screws (6) (XBPSD30P05J00) fastening the reel motor and, holding the reel motor from the underside of the chassis, remove the reel motor. At this time, keep reel idler (4) moved to the right.

Precaution:

1. Do not mistake the leads of the reel motor when soldering them.
2. Use the right screws to fasten the reel motor: otherwise the motor might be broken.
3. Because of soldered leads, the cassette down SW holder cannot be removed only by removing two screws. Be careful not to break the leads by applying excessive force.

• Installation

- 1) Check that reel idler (4) is engaged with reel chassis (1) and reel idler spring (5) with the reel idler.
- 2) With care not to scratch the reel motor pulley 7, set the reel motor for exchange with two screws (XBPSD30P06J00) (Longer screw than this will damage the motor.) so that the reel motor terminal and the spring hook angle 9 align in the direction as shown in Fig. 32.
- 3) Solder the leads to the reel motor terminals.
- 4) Clean the reel motor pulley, reel idler, supply and take-up reel disk with the designated cleaning liquid.
- 5) Move the cassette down SW holder to its right position and fasten it with two screws (XHPSD30P10WS0).
- 6) Check torque during fast-forward and rewind modes (refer to 8, 9 page). Check and adjust torque during play mode (refer to 9 pages).

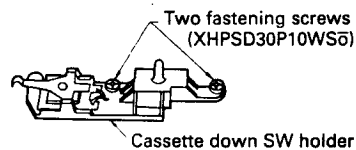


Figure 31.

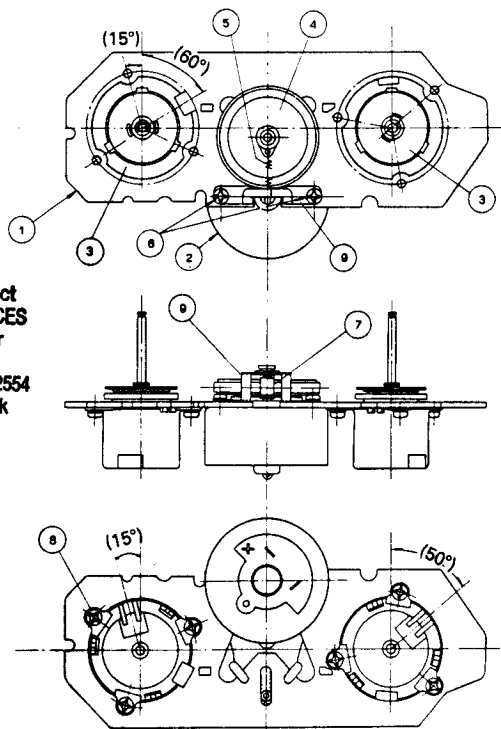


Figure 32.

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2. Reel idler replacement

Precaution:

1. The reel idler may be replaced without unsoldering the reel motor leads. At this time, use good care to neither break reel motor leads nor damage the reel motor, reel motor pulley, and other parts by permitting the reel motor or reel motor pulley to hit other parts.

• Removal

- 1) Remove the reel motor by removal procedure 1.
- 2) Move the reel idler to the center of the reel chassis as shown in Figure 32 and pull it toward the reel motor slightly. Then the reel idler comes off.

Precaution

1. Be careful not to deform the reel idler spring.
2. If the reel motor leads are not removed, step 3 of procedure 1 need not be performed.
3. If only the reel idler has been replaced, check torque in every mode like in step 6 of procedure 1.

• Installation

- 1) Hook the reel idler spring rightly to the idler. Assemble the reel chassis and reel idler.
- 2) Move the reel idler to the left or right.
- 3) Install the reel motor by installation procedure 1.

3. Brake unit replacement

Precaution:

1. After brake unit replacement, be sure to check reel disk height and back tension during V/S and fastforward modes.
2. For removal and reinstallation of a reel disk, take note of Caution given in 8 page.
3. Be sure to use the designated screws to fasten the brake unit.

• Removal (Following the procedure below on both the take-up and supply sides.)

- 1) Remove the reel disk (refer to 8 page).
- 2) Unsolder the leads of the brake unit at the back of the chassis.
- 3) Remove the three screws (8) (XBPSD30P04J00) fastening the brake unit then the brake unit itself.

• Reassembly (Follow the procedure below on both the take-up and supply sides.)

- 1) Fasten the replacing brake unit with three screws (XBPSD30P04J00) in the direction show in Figure 32.
- 2) Unsolder the leads of the brake unit.
- 3) Install the reel disk (refer to 8 page).
- 4) Check each item specified in 8 page and fast-forward-time back tension referring to 9 page (only after supply side brake unit replacement).

CAPSTAN MOTOR REPLACEMENT

• Removal

- 1) Remove the capstan belt.
- 2) Unsolder the four motor leads from the mechanism platform.
- 3) Remove two screws (XHPSD30P08WS0) then the capstan motor from chassis A.
- 4) Remove the capstan motor to which the capstan pulley is attached. (The capstan pulley is fixed to be unable to remove.)
- 5) Remove three screws (XBPSD20P04J00), then remove the capstan motor from the capstan motor base plate.

• Installation

- 1) Fasten the capstan motor to the capstan motor base plate with three sets of screw (XBPSD20P04J00).
- 2) Fasten the capstan pulley to the capstan motor base plate with set screw (LX-XZ3016GEFP) in such a manner that the gap between the capstan pulley and the capstan motor base plate be 1.8mm.
- 3) Check that the motor angle insulator is installed, then fasten the assembly to chassis A with two screws (XHPSD30P08WS0).
- 4) Solder the motor leads to the mechanism platform.
- 5) Clean the capstan belt, capstan pulley, and capstan flywheel, then install be capstan belt.

Precaution:

1. After the capstan belt is installed, be sure to run the capstan motor and check that there is nothing wrong with the coordination of the belt, motor, and pulley.
2. Check and adjust the servo circuit at the same time.
3. Adjust the gap between the capstan pulley and capstan motor base plate to $1.8 \pm 0.1\text{mm}$.
4. Use the fixed screws to fasten the motor: otherwise the motor might be broken.

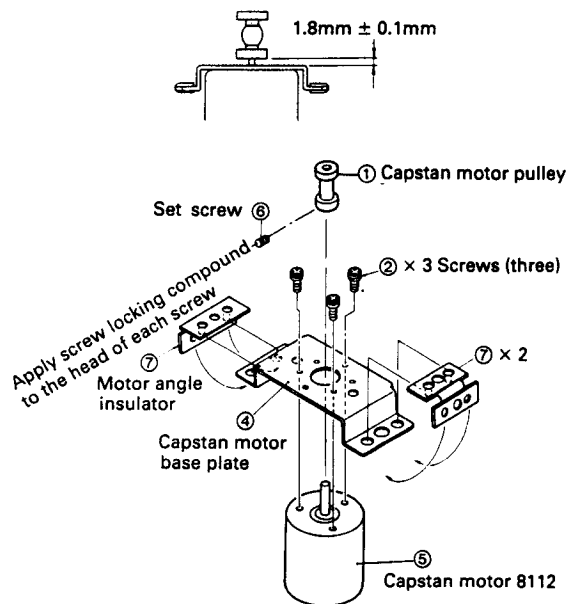


Figure 33.

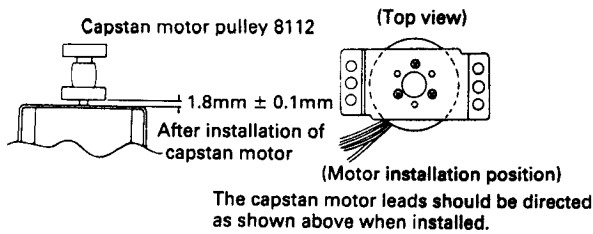


Figure 34.

LOADING MOTOR REPLACEMENT

• Replacement

- 1) Remove the loading belt.
- 2) Unsolder the leads.
- 3) Remove two screws (XBPSD30P05JS0) then the loading motor.
- 4) Replace the loading motor together with the pulley.

Precaution:

1. Check that the gap between the loading motor and the loading motor pulley is $6.2 \pm 0.2\text{mm}$.
2. After the loading motor is installed, be sure to run it and check that the belt runs properly.

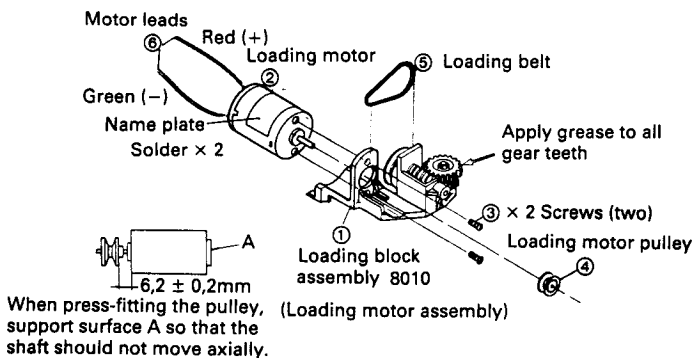


Figure 35.

DD MOTOR REPLACEMENT

- **Jig:** Jig for installation of DD rotor assembly.

• Removal

- 1) Loosen two set screws of the DD rotor assembly using a torque wrench.
- 2) Remove the DD rotor assembly.
- 3) Remove three screws fastening the DD stator assembly then the DD stator assembly itself.

• Installation

- 1) Place the DD stator assembly on the bearing holder. (Take care of the direction of the DD stator assembly's connector.)
- 2) Holding the DD stator assembly with fingers, fasten it with screws. (Use care so that the screw heads should not interfere with the stator coil.)
- 3) Place the DD rotor assembly installation jig on the base of the DD rotor assembly.

- 4) Fit the DD rotor assembly to shaft D.
- 5) Bring the DD rotor assembly in contact with the jig.
- 6) Holding the DD rotor assembly with fingers, fasten it with set screws (two) at a torque of 8kg.
- 7) Remove the DD rotor assembly installation jig.
- 8) Apply locking paint to the set screws.

Precaution:

1. Use care not to damage the upper drum and video head.
2. Neither force the jig when installing nor pry it when removing.
3. Do not permit the Hall devices to hit the jig or DD motor rotor assembly, etc. Protect them from any shocks.

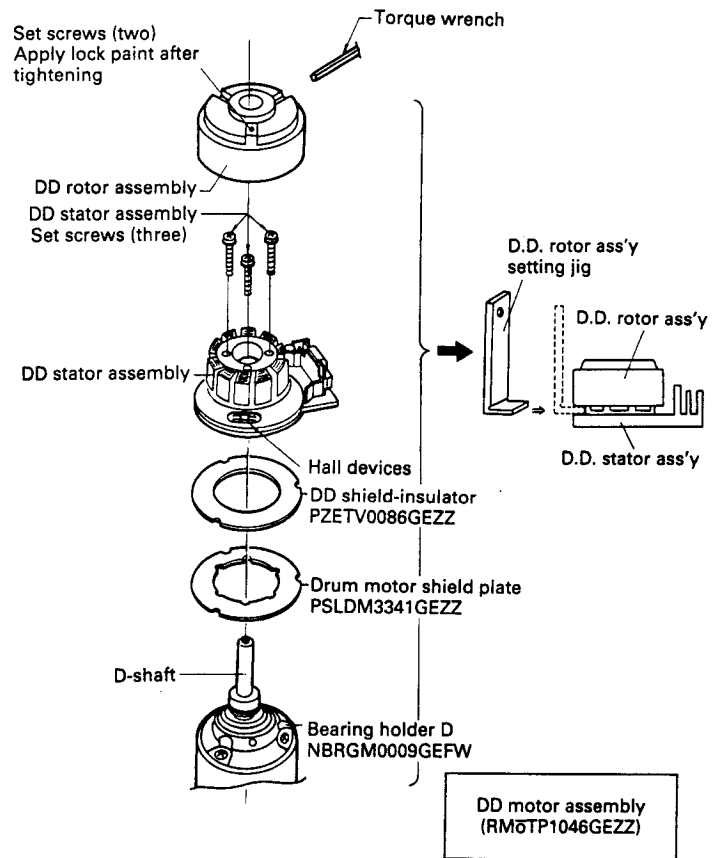


Figure 36.

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ADJUSTMENT OF ELECTRICAL CIRCUITS

In most cases, necessity for adjusting electrical circuits will arise from replacement of mechanical parts including the video head. Before starting adjustment of electrical circuits, check that mechanical operation of the equipment is complete (the mechanisms are adjusted completely). If the equipment fails electrically, locate a defect or defects first of all using instruments. Then repair or replace parts and make adjustment by the procedures described below. When required instruments are not available, do not move controls indiscriminately.

• Instruments

- Colour monitor TV
- Oscilloscope
- Colour bar generator
- Frequency counter
- DC regulated power supply
- Audio generator
- Alignment tape
- Blank video tape (VHS)
- VTVM

SERVO CIRCUIT ADJUSTMENTS

• Locations of test points

System control board

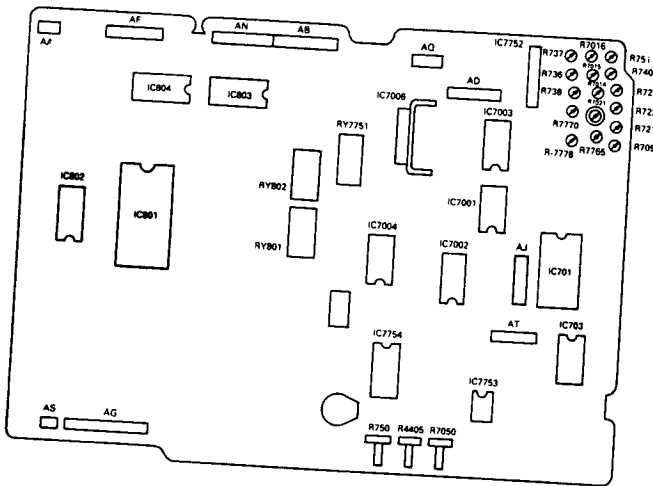


Figure 37.

1) Checking procedure of 12V

1. Select record mode.
2. Connect a VTVM to connector A02 pin and check that it reads $12 \pm 0.2V$.

2) MM adjustment

1. Select record mode.
2. Monitoring TP4 with an oscilloscope (internal trigger), adjust R709 so that the requirement given in Figure 38 be met. (Apply no video signal at this time.)

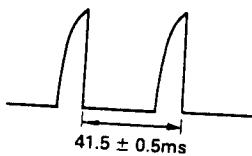


Figure 38.

3) Checking procedure of reference signal

1. Select record mode.
2. Applying any video signal, check that MM out at TP4 is 40ms.



Figure 39.

4) Drum lock adjustment

Caution: After this adjustment, be sure to check an adjust switching point of recording an playback.

1. Select record mode.
2. Monitoring TP1 with an oscilloscope (internal trigger), adjust R738 (DRUM LOCK) so that the requirement given in Figure 40 be met.

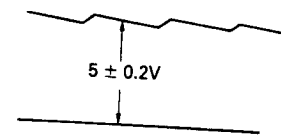


Figure 40.

5) Checking procedure of recording control signal

1. Select record mode.
2. Monitoring IC701 pin ⑥ with an oscilloscope (internal trigger), check that the requirements given in Figure 41 are met.

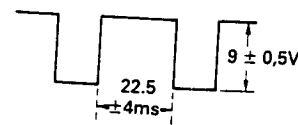


Figure 41.

6) Drum FG adjustment

1. Select record mode.
2. Monitoring AJ in 5 with an oscilloscope (internal trigger), check that the requirements given in Figure 42 are met.



Figure 42.

- 7) Drum PG adjustment
1. Select record mode.
 2. Monitoring AJ pin ③ with an oscilloscope (internal trigger), check that the requirements given in Figure 43 are met.

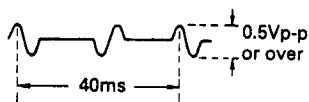


Figure 43.

- 12) Checking procedure of capstan PG
1. Select record mode.
 2. Monitoring AN pin ④ with an oscilloscope (internal trigger), check that the requirements given in Figure 48 are met.

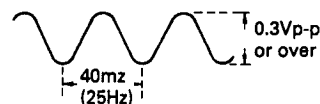


Figure 48.

- 8) Checking procedure of head switching pulse
1. Select record mode.
 2. Monitoring TP5 with an oscilloscope (internal trigger), check that the requirements given in Figure 44 are met.

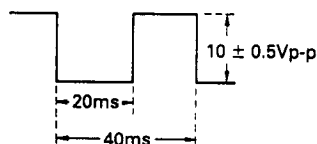


Figure 44.

- 13) Checking procedure of PB reference signal
1. Select play mode.
 2. Monitoring AK pin ⑦ with an oscilloscope (internal trigger), check that $T = 20 \text{ msec}$ and $V = 5.5 \pm 0.5V$ (see Figure 49).



Figure 49.

- 9) Capstan lock adjustment
1. Select record mode.
 2. Monitoring TP3 with an oscilloscope (internal trigger), adjust R740 so that the requirement given in Figure 45 be met.

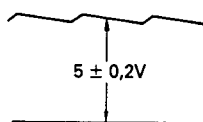


Figure 45.

- 14) Checking procedure of playback control signal
1. Select play mode and play back the alignment tape.
 2. Monitoring TP6 with an oscilloscope (internal trigger), check that the requirements given in Figure 50 are met.

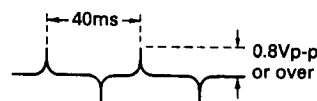


Figure 50.

- 10) Checking procedure of capstan voltage
1. Select record mode.
 2. Monitoring AN pin ③ with an oscilloscope (internal trigger), check that the requirements given in Figure 46 are met.

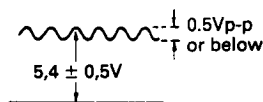


Figure 46.

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- 11) Checking procedure of capstan FG
1. Select record mode.
 2. Monitoring AB pin ⑫ with an oscilloscope (internal trigger), check that the requirements given in Figure 47 are met.

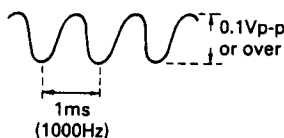


Figure 47.

- 15) Tracking preset adjustment
1. Select play mode.
 2. Set the tracking control at the clickstop.
 3. Monitoring TP2 with an oscilloscope (internal trigger), adjust R751 so that the requirement given in Figure 51 be met.

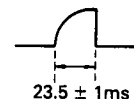


Figure 51.

- 16) Checking procedure of playback switching point
- Caution:** Be sure to check recording switching point after this adjustment.
1. Select play mode and load the alignment tape.
 2. Set the tracking control at the clickstop.
 3. Monitor TP401 with an oscilloscope (with external trigger at TP5).

4. Selecting (+) sync slope with the oscilloscope, adjust R722 to meet the requirements given in Figure 52.
5. Selecting (-) sync slope with the oscilloscope, adjust R721 to meet the requirements given in Figure 53.

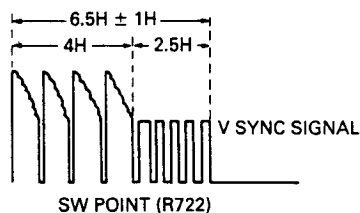


Figure 52.

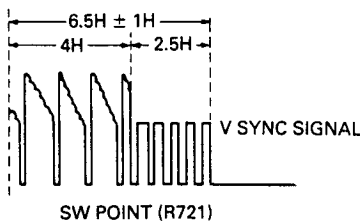


Figure 53.

- 17) Checking procedure and adjustment of record switching point

Precaution: Do not perform this adjustment before checking playback switching point.

1. Select record mode.
2. Monitor TP401 with an oscilloscope (with external trigger at TP5).
3. Selecting (+) sync slope with the oscilloscope, adjust R723 to meet the requirements given in Figure 54.

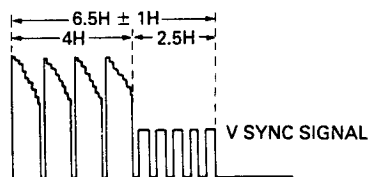


Figure 54.

- 18) Take-up torque adjustment

1. Select ordinary record mode.
2. Adjust R7765 so that take-up torque read 175 ± 15 g-cm with the torque gauge.
3. After adjustment, adjust also capstan lock voltage according to procedure (11).

- 19) VS-FWD reel speed adjustment

1. Select VS-FWD mode.
2. Monitoring TP6 with an oscilloscope (internal trigger), adjust R7778 to obtain $T1 = 4.4$ ms as shown in Figure 55.

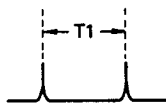


Figure 55.

- 20) VS-REV speed adjustment

1. Select VS-REV mode.
2. Monitoring TP6 with an oscilloscope (internal trigger), adjust R7770 to obtain $T1 = 4.6$ ms as shown in Figure 55.

- 21) VS-FF shift adjustment

1. Select VS-FF mode.
2. Monitoring PT401 with an oscilloscope (internal trigger), adjust R737 to obtain $T2 = 64 \pm 3$ μs as shown in Figure 56.

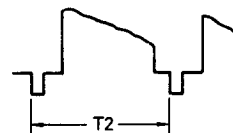


Figure 56.

- 22) VS-REV shift adjustment

1. Select VS-REV mode.
2. Monitoring TP401 with an oscilloscope (internal trigger), adjust R736 to obtain $T2 = 64 \pm 3$ μs as shown in Figure 56.

- 23) VS-FWD reel speed adjustment

1. Select VS-FWD mode.
2. Adjust R7778 so that 4 noise bars appear on the monitor TV noise bars should be mealy stationaly.

- 24) VS-REV reel speed adjustment

1. Select VS-REV mode.
2. Adjust R7770 so that 4 noise bars appear on the monitor TV noise bars should be mealy stationaly.

STILL CIRCUIT ADJUSTMENTS

- 1) FV adjustment

1. Select still play mode.
2. Monitor TP9 with an oscilloscope (external trigger at TP5).
3. Selecting (-) sync slope with the oscilloscope, adjust R7016 to meet the requirement given in Figure 57.

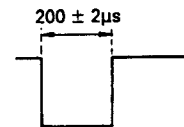


Figure 57.

- 2) Still FV adjustment

1. Select still play mode.
2. Monitor TP9 with an oscilloscope (external trigger at TP5).

3. Selecting (+) sync slope with the oscilloscope, adjust R7015 to meet the requirement given in Figure 58.

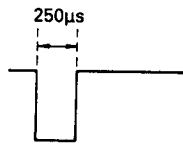


Figure 58.

3) VS-FV adjustment

1. Select VS-FWD mode.
2. Monitor TP9 with an oscilloscope (external trigger at TP5).
3. Selecting (+) sync slope with the oscilloscope, adjust R2014 to meet the requirement given in Figure 59.

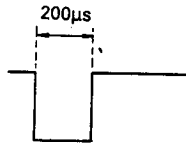


Figure 59.

4) Still preset adjustment

1. Playback a self-recorded tape. Set the still tracking control at the clickstop.
2. Monitoring TP10 with an oscilloscope (internal trigger single) and repeating still playback several times adjust R7021 to meet the requirement given in Figure 60.
3. If noise bars are not drawn in the blanking time, make fine-adjustment while looking at the picture.

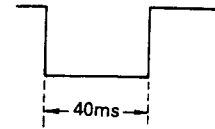


Figure 60.

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Y/C PLAYBACK CIRCUIT ADJUSTMENTS

• Locations of test points

Y/C board

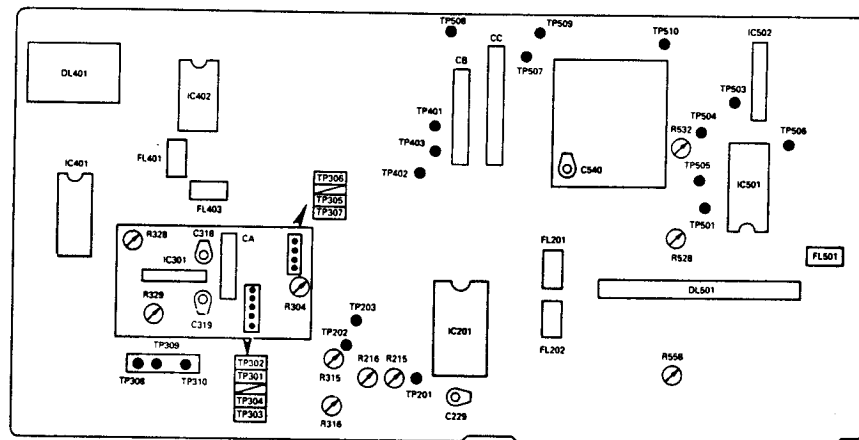


Figure 61.

1) Playback preamplifier adjustment

1. Playback sweep tape
2. Observe TP309 with the oscilloscope (external trigger TP308)
3. Adjust C318, C319, R328 and R329 to make the waveform as shown in Figure 62(a).



Figure 62(a).

Make adjustment with Video sweeper, when the sweep tape is not on hand.

Precautions: Do not perform this adjustment unless it is specified to do like after replacement of the upper drum or IC301.

1. Select play mode. (Do not load any tape).
2. Connect a video sweeper to TP305 and TP306 (see Figure 62(b)).

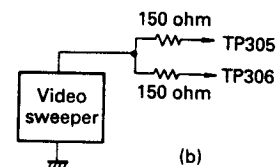


Figure 62(b).

3. Monitor TP309 with an oscilloscope (external trigger; sweep).
4. Make adjustment as follows (Figure 62).
 - (1) Adjust sweep speed of the oscilloscope to see channels 1 and 2 simultaneously.
 - (2) Adjust R329 (channel 1 – DUMP) and R328 (channel 2 – DUMP) so that the peak become the highest and the waveform extend to high frequencies.
 - (3) Adjust C319 (channel 1 trimmer) and C318 (channel 2 trimmer) to bring the peak to approximately 5MHz.
 - (4) Adjust R328 and R329 to make the waveform as shown in Figure 62(c).

Precautions: If a video sweeper is not available, play back the alignment tape (step wave) and make adjustment with C319, C318, R328 and R329 so that the quality of the reproduced picture become the best with no flickering and noises. Record something and play it back and confirm that there is nothing wrong.

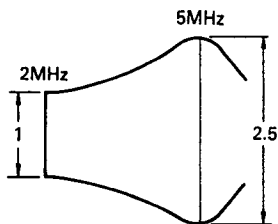


Figure 62(c).

- 1) APC adjustment
 1. Select play mode and play back the alignment tape (step wave).
 2. Connect a frequency counter to TP503 and adjust R532 so that counter reads 4.433619MHz.
- 2) 4.44MHz adjustment
 1. Select record mode the alignment tape (step wave).
 2. Connect a frequency counter to TP504 and adjust C540 so that counter reads 4.435572MHz.
- 3) Playback video signal level adjustment

Precaution: Leave VIDEO OUT open.

 1. Select play mode and playback the alignment tape (step wave).
 2. Monitoring TP401 with an oscilloscope (external trigger at TP508), adjust R426 (PB LEV) to make to 2.0Vp-p (see Figure 63).

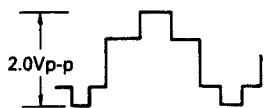


Figure 63.

- 4) CARRIER LEAK adjustment
 1. Select play mode and playback the alignment tape (step wave).
 2. Observe the output of TP502 on oscilloscope (external trigger TP508) and adjust R541 so that the carrier leak will be minimum.

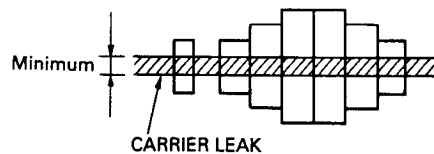


Figure 64.

- 5) Playback chroma level adjustment

Precaution: Leave VIDEO OUT open

 1. Select play mode and playback the alignment tape (step wave).
 2. Observe the output of TP401 (internal trigger) and adjust R558 so that the burst level will be 0.5Vp-p.

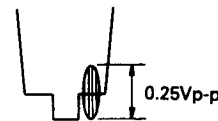


Figure 65.

Y/C RECORDING CIRCUIT ADJUSTMENTS

- 1) EE LEVEL adjustment

Precaution: Leave VIDEO OUT open.

 1. Select record mode.
 2. Apply colour bars (step wave) to the input terminal.

Monitoring TP402 with an oscilloscope (external trigger at TP508) adjust R207 (EE LEV) to meet the requirement given in Figure 66.



Figure 66.

- 2) FM 3.8MHz/4.8MHz adjustment

Precaution: Do not perform this adjustment except after replacement of IC201 or unless carrier set (3.8MHz) or deviation (4.8MHz) is out of adjustment.

 1. Select record mode and short input signal.
 2. Release clipping with R216 (DARK CLIP) and R215 (WHITE CLIP).
 3. Connect a frequency counter to TP202.
 4. Adjust C229 (3.8MHz control) so that the frequency counter read 3.8MHz.
 5. Connect regulated power and an oscilloscope to IC 201 pin 16 and measure DC voltage.
 6. Adjust the supply voltage (regulated) and write down the DC voltage when the frequency counter reads 4.8MHz.
 7. Applying step wave to the input adjust R220 (DEV) so that the white peak come close to the DC voltage read in step 6.

- 3) White/dark clip adjustment
 1. Select record mode.
 2. Receive colour bars (step wave).
 3. Monitoring TP201 with an oscilloscope, adjust R216 (DARK CLIP) and R215 (WHITE CLIP) to attain the figures given in Figure 67.

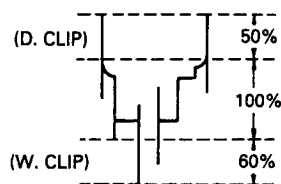


Figure 67.

- 4) AFC adjustment
 1. Select record mode and receive colour bars.
 2. Connect a resistor of 680 ohms (1/2W) between TP504 and TP506 (+B LINE).
 3. Connect a frequency counter to TP505 and adjust R528 so that the counter reads 625kHz.
- 5) FM recording balance/recording current adjustment
 1. Select record mode and receive colour bars.
 2. Using a dual-trace oscilloscope (external trigger at TP508) make adjustment as follows.
 - (1) Connect TP302 (GND) and SIG of oscilloscope's channel 1 to TP301 and TP304 (GND) and SIG of oscilloscope's channel 2 to TP303. Adjust at a time both channels.
 - (2) Minimize with R315 (REC Y).
 - (3) Adjust R304 (REC BAL) so that channels 1 and 2 become the same.
 - (4) Adjust R316 (REC C) so that the Voltage become $25 \pm 2.5\text{mVp-p}$.
 - (5) Adjust R315 (REC Y) so that sync tip become $110 \pm 10\text{mVp-p}$.

AUDIO CIRCUIT ADJUSTMENTS

• Locations of test points

Audio board

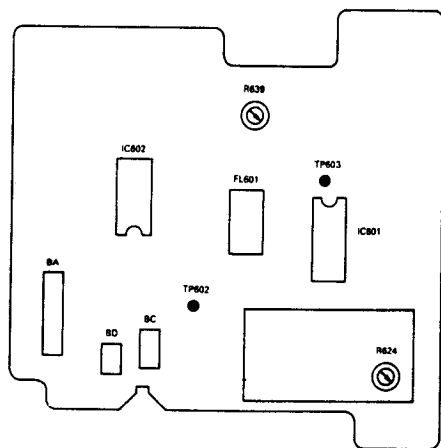


Figure 68.

- 1) Playback level adjustment
 1. Play back the alignment tape (1-kHz calibration signal).
 2. Connect VTVM to TP602.
 3. Adjust R639 (PB LEVEL) so that the output level become -7.5 dBm .
- 2) Bias current adjustment
 1. Connect a VTVM across R8008.
 2. Select record mode.
 3. Adjust R624 (BIAS CURR) so that the bias current become $400 \pm 5\mu\text{A}$. (The Voltage across R8008 is 4mV .)
- 3) Checking procedure of bias leakage
 1. Select record mode (receive no signal).
 2. Connect a VTVM to TP602.
 3. Check that bias leakage is less than -20 dBm .
- 4) Checking procedure of erase voltage and frequency
 1. Select record mode.
 2. Connect an oscilloscope to AE head.
 3. Check that the erase voltage is higher than 60Vp-p .
 4. Check that the frequency is $70 \sim 85\text{kHz}$.

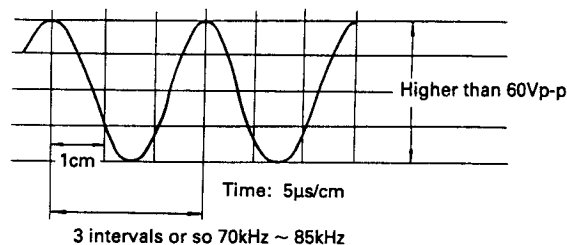
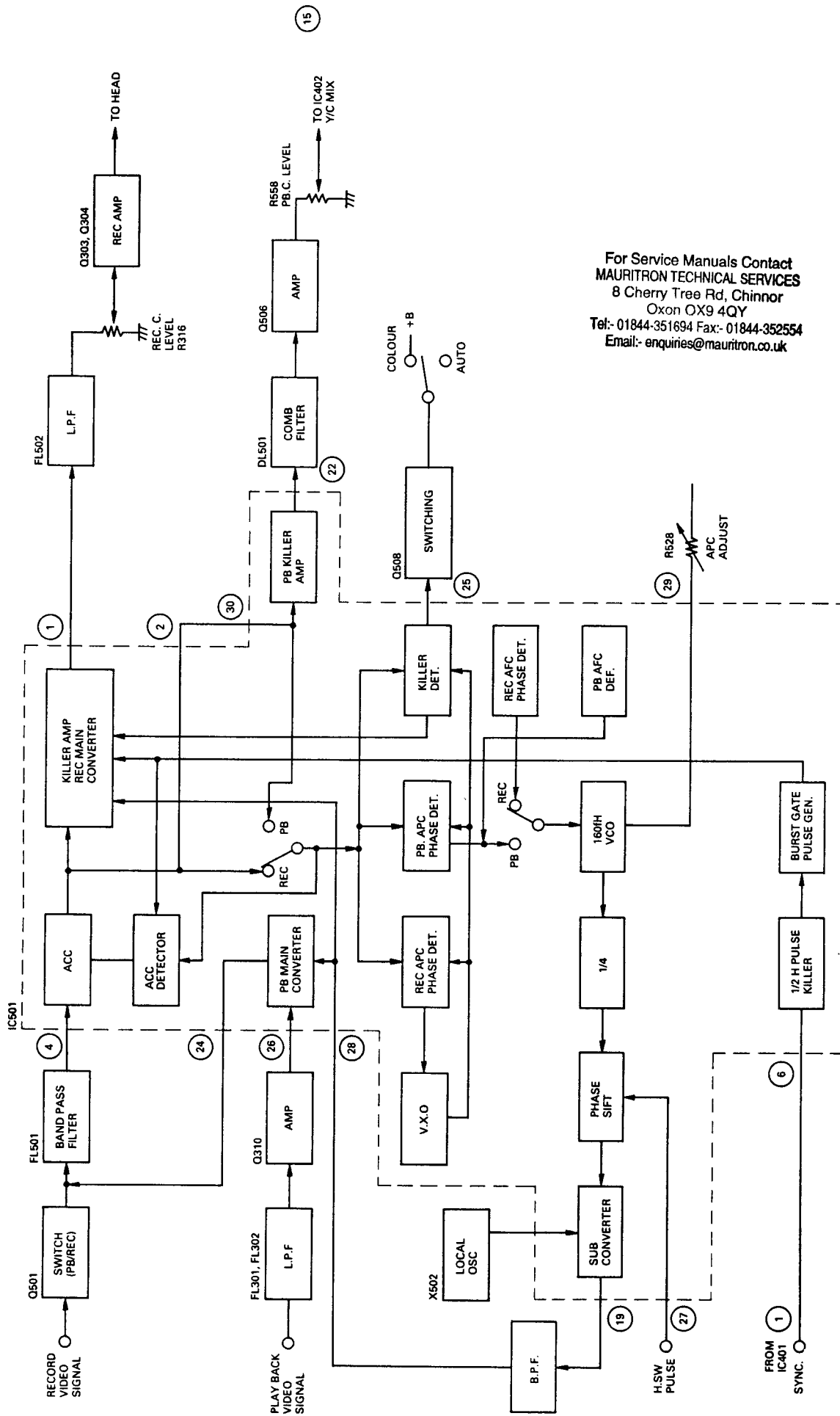


Figure 69.

- 5) Checking procedure of recording level
 1. Applying $1\text{kHz}/0.22\text{V}$ (-20 dBm) to the audio input terminal, record the signal then play it back.
 2. Check that level is -5 dBm at TP602 during playback.
 3. Perform procedures (1) and (2) if the requirement is not met.

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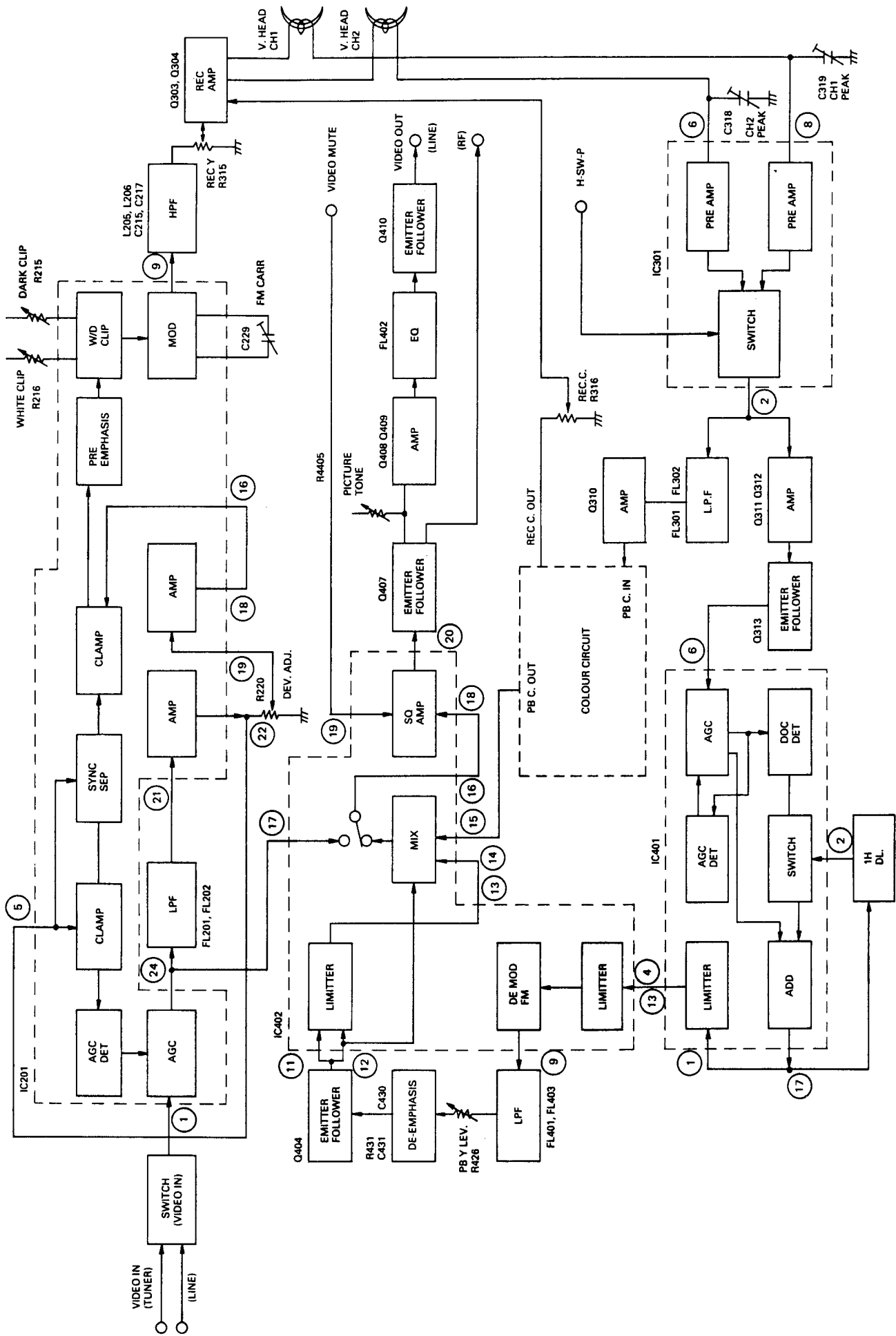
BLOCK DIAGRAM CHOROMA CIRCUIT



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Figure 71.

BLOCK DIAGRAM LUMINANCE CIRCUIT



BLANK PAGES.

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IMPORTANT SAFETY NOTICE:
BE SURE TO USE GENUINE PARTS FOR SECURING THE SAFETY AND RELIABILITY OF THE SET. PARTS MARKED WITH "Δ" AND PARTS SHADED (IN BLACK) ARE ESPECIALLY IMPORTANT FOR MAINTAINING THE SAFETY AND PROTECTING ABILITY OF THE SET. BE SURE TO REPLACE THEM WITH PARTS OF SPECIFIED PART NUMBER.

SAFETY NOTE:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

NOTE:

1. The unit of resistance "ohm" is omitted (k = ohm, M = 1 Meg ohm).
2. All resistors are 1/4 watt, unless otherwise noted.
3. The unit of capacitance "F" is omitted ($\mu = \mu F$, P = $\mu\mu F$).

VOLTAGE MEASUREMENT CONDITIONS:

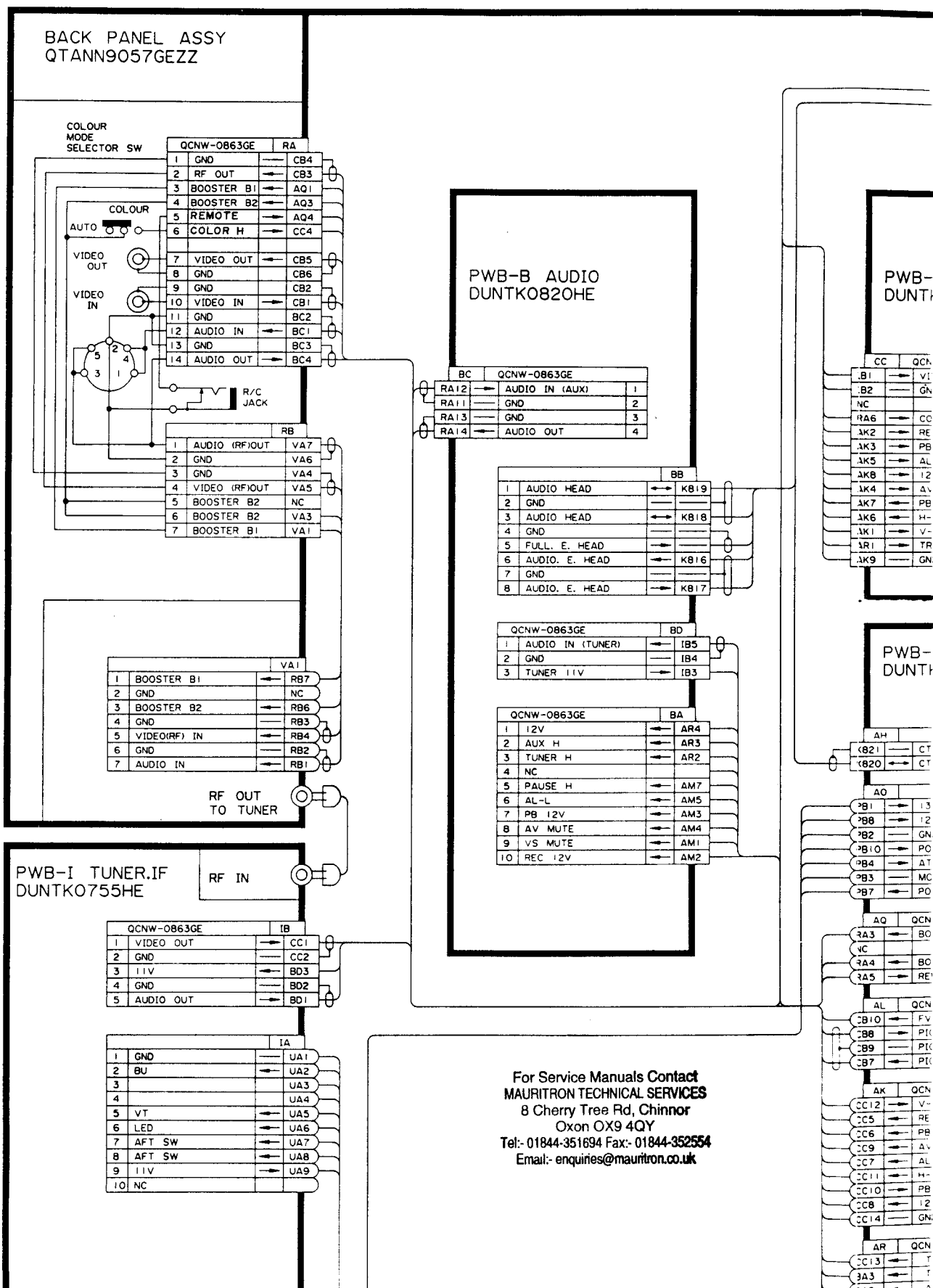
1. DC voltages are measured between points indicated and chassis ground by VTVM, with 220V AC 50Hz supplied to unit and all controls are set to normal viewing picture unless otherwise noted.
2. Voltages are measured with 10000 μV B & W or colour signal.

WAVEFORM MEASUREMENT CONDITIONS:
10000 μV 87.5 percent modulated colour bar signal is fed into tuner:

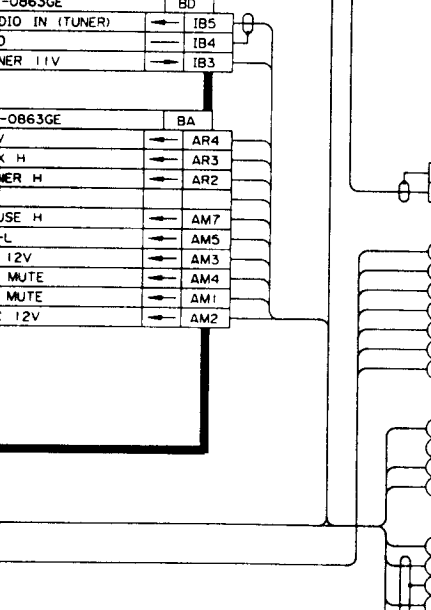
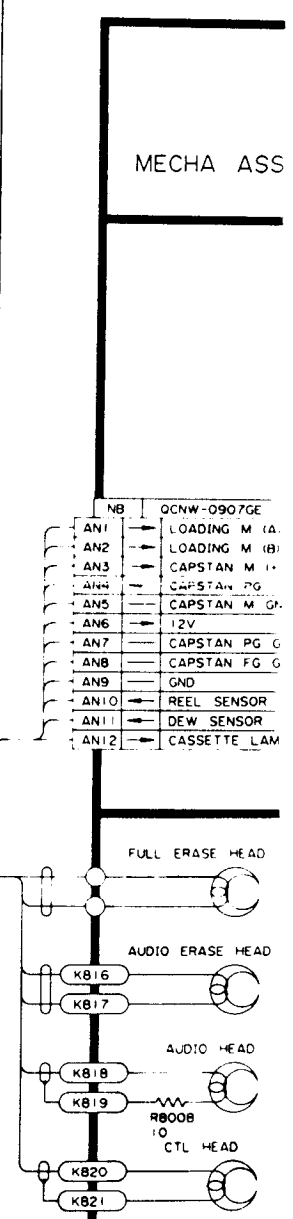
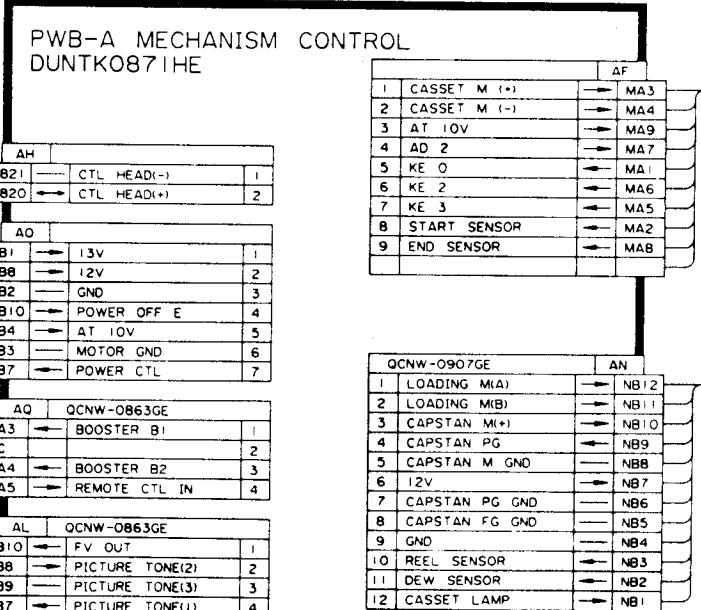
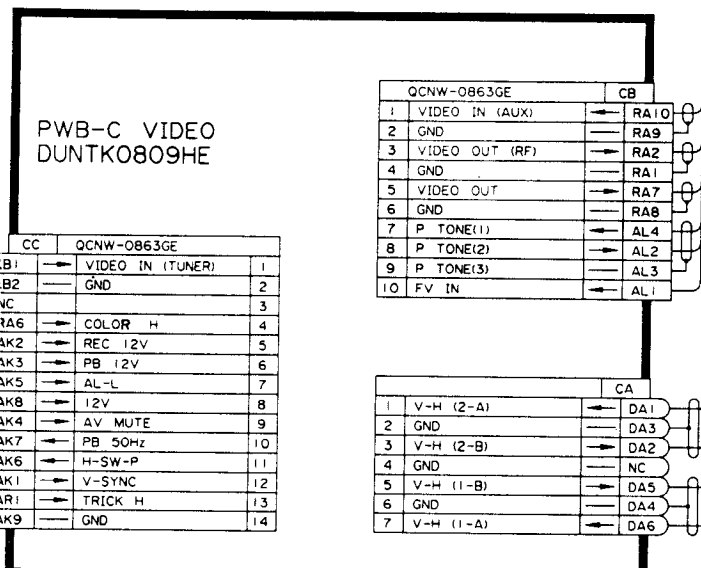
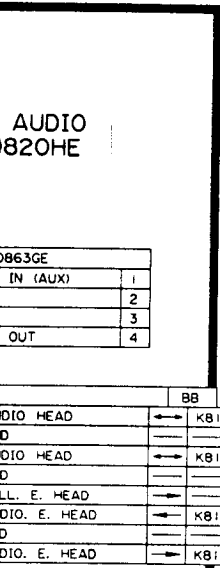
CAUTION:
This circuit diagram is original one. Therefore there may be a slight difference from yours.

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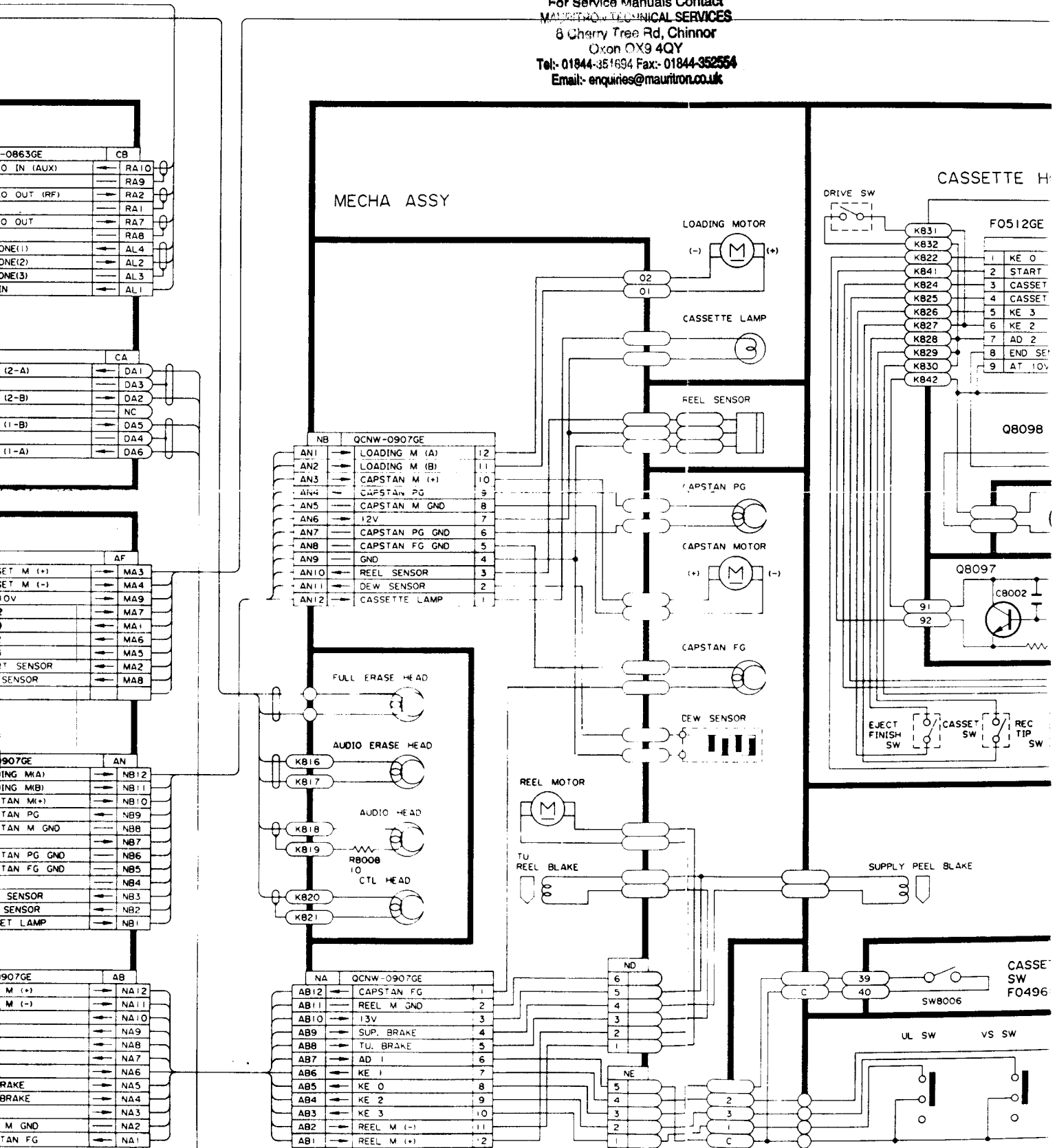
OVERALL SCHEMATIC DIAGRAM (VC-381H,W)



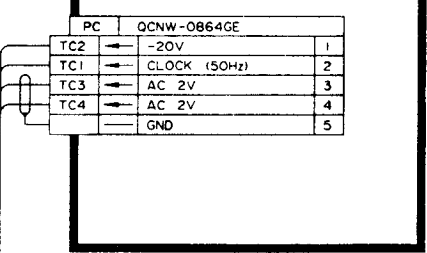
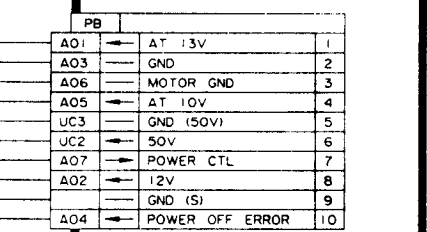
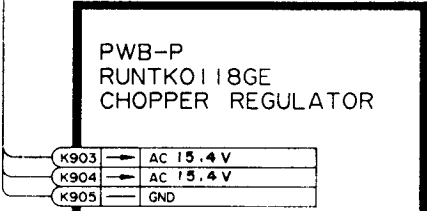
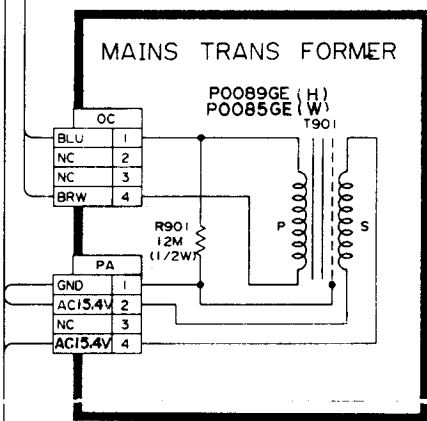
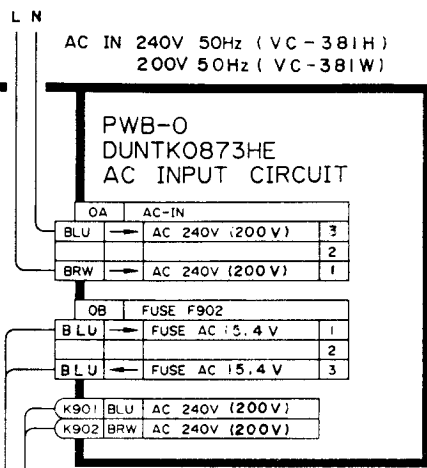
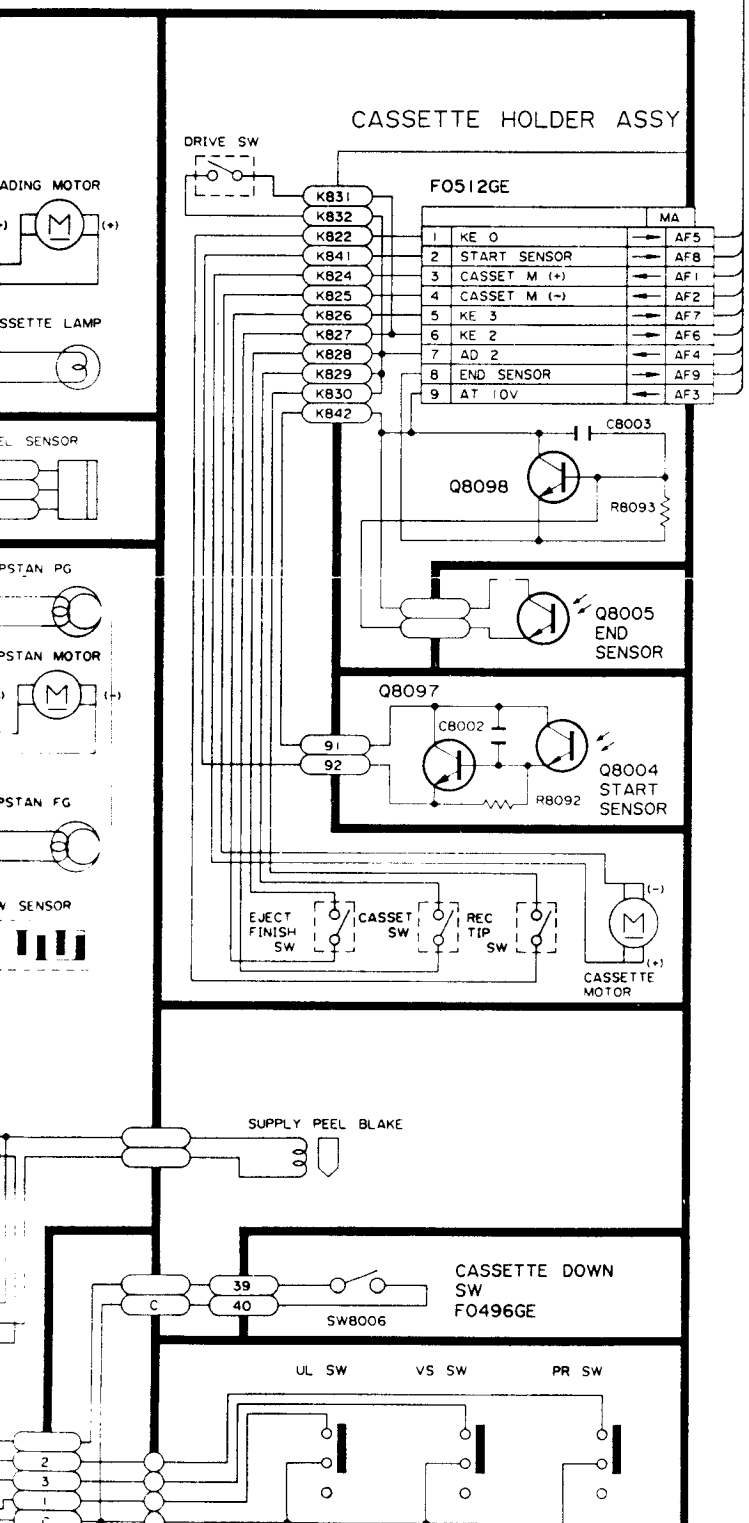
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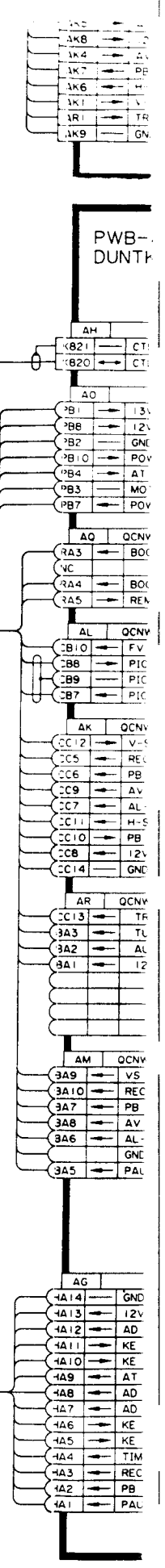
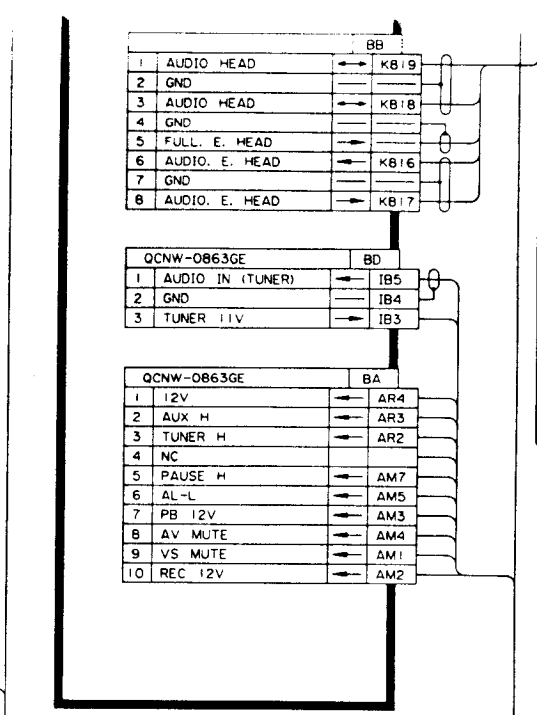
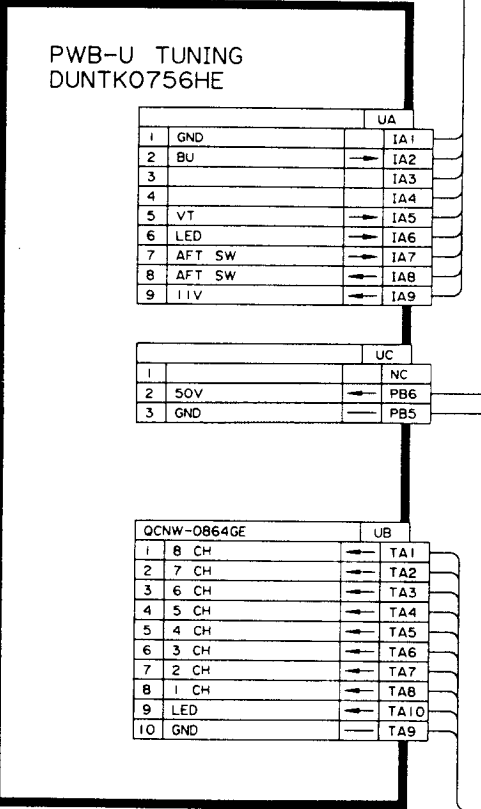
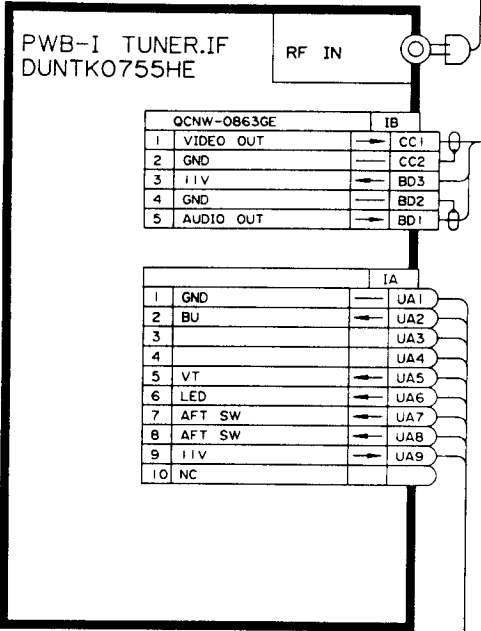
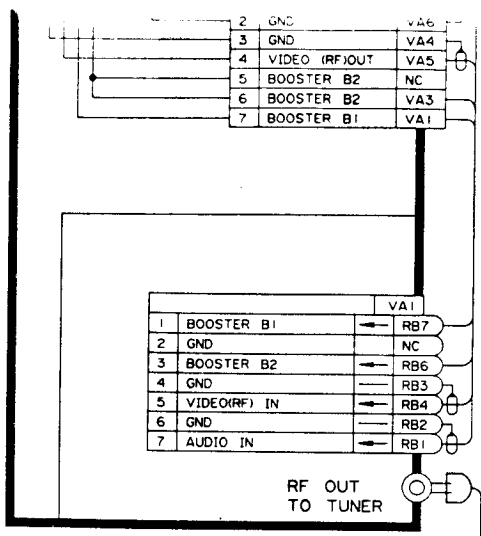
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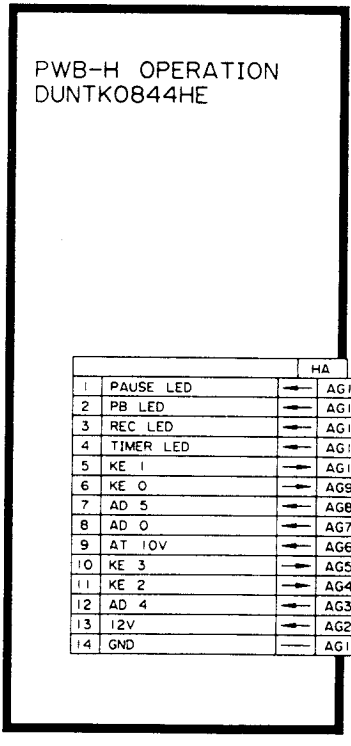
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(Z2005GE)(W)

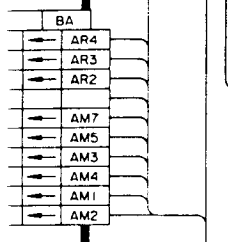
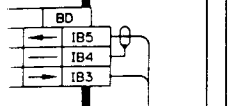
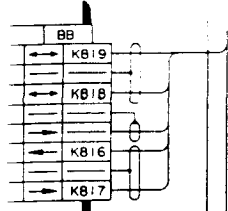


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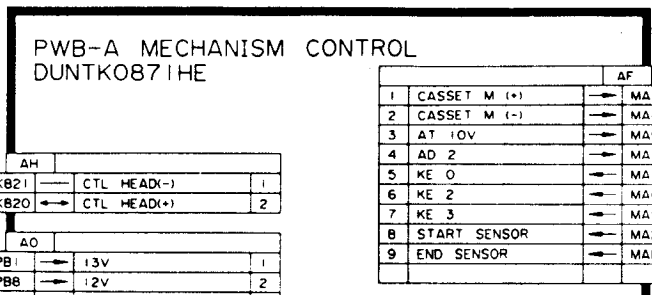
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AK5	AL	7
AK8	12V	8
AK4	AV MUTE	9
AK7	PB 50HZ	0
AK6	H-SW-P	11
AK1	V-SYNC	2
AK9	TRICK H	13
AK9	GND	4

1	V-H (2-A)	DA1
2	GND	DA3
3	V-H (2-B)	DA2
4	GND	NC
5	V-H (1-B)	DA5
6	GND	DA4
7	V-H (1-A)	DA6



KB21	CTL HEAD(-)	1
KB20	CTL HEAD(+)	2

PB1	13V	1
PB8	12V	2
PB2	GND	3
PB10	POWER OFF E	4
PB4	AT 10V	5
PB3	MOTOR GND	6
PB7	POWER CTL	7

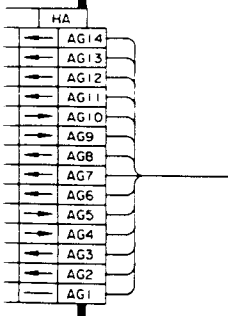
RA3	BOOSTER B1	1
RA4	BOOSTER B2	3
RA5	REMOTE CTL IN	4

CB10	FV OUT	1
CB8	PICTURE TONE(2)	2
CB9	PICTURE TONE(3)	3
CB7	PICTURE TONE(1)	4

CC12	V-SYNC	1
CC5	REC 12V	2
CC6	PB 12V	3
CC9	AV MUTE	4
CC7	AL-L	5
CC11	H-SW PULSE	6
CC10	PB 50Hz	7
CC8	12V	8
CC14	GND	9

CA3	TRICK H	1
CA3	TUNER H	2
CA2	AUX H	3
BA1	12V	4
		5
		6
		7
		8

3A9	VS MUTE	1
3A10	REC 12V	2
3A7	PB 12V	3
3A8	AV MUTE	4
3A6	AL-L	5
	GND	6
3A5	PAUSE-H	7



4A14	GND	1
4A13	12V	2
4A12	AD 4	3
4A11	KE 2	4
4A10	KE 3	5
4A9	AT 10V	6
4A8	AD 0	7
4A7	AD 5	8
4A6	KE 0	9
4A5	KE 1	10
4A4	TIMER LED	11
4A3	REC LED	12
4A2	PB LED	13
4A1	PAUSE LED	14

1	CASSET M (+)	MA3
2	CASSET M (-)	MA4
3	AT 10V	MA9
4	AD 2	MA7
5	KE 0	MA1
6	KE 2	MA6
7	KE 3	MA5
8	START SENSOR	MA2
9	END SENSOR	MAB

1	LOADING M(A)	NB12
2	LOADING M(B)	NB11
3	CAPSTAN M(+)	NB10
4	CAPSTAN PG	NB9
5	CAPSTAN M GND	NB8
6	12V	NB7
7	CAPSTAN PG GND	NB6
8	CAPSTAN FG GND	NB5
9	GND	NB4
10	REEL SENSOR	NB3
11	DEW SENSOR	NB2
12	CASSET LAMP	NB1

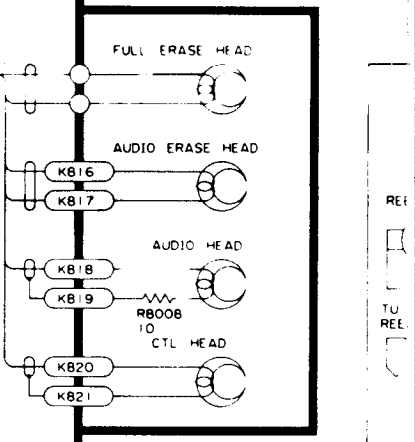
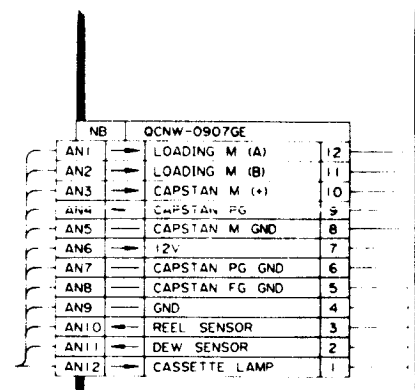
1	REEL M (+)	NA12
2	REEL M (-)	NA11
3	KE 3	NA10
4	KE 2	NA9
5	KE 0	NA8
6	KE 1	NA7
7	AD 1	NA6
8	TU BRAKE	NA5
9	SUP BRAKE	NA4
10	13V	NA3
11	REEL M GND	NA2
12	CAPSTAN FG	NA1

1	DRUM HEATER	DB1
2	DRUM HEATER	DB2
3	DRUM PG	DB5
4	GND	DB3
5	DRUM FG	DB4

1	DRUM LOCK	TP1	AT1	1
2	TRACKING PRESET	TP2	AT2	2
3	CAP LOCK	TP3	AT3	3
4	V-SYNC	TP4	AT4	4
5	H-SW PULSE	TP5	AT5	5
6	CTL PULSE	TP6	AT6	6
7	12V	TP7	AT7	7
8	GND	TP8	AT8	8
9	FV	TP9	AT9	9
10	CTL DELAY PULSE	TP10	AT10	10

1	AT 13V	DM2
2	GND	DM3
3	CONTROL SIG	DM1

1	GND	TB1
2	AT 10V	TB5
3		NC
4		NC
5		TB2
6	DEW LED	TB6
7	TIMER CTL	TB4
8	TIMER MEMORY	TB3
9		NC



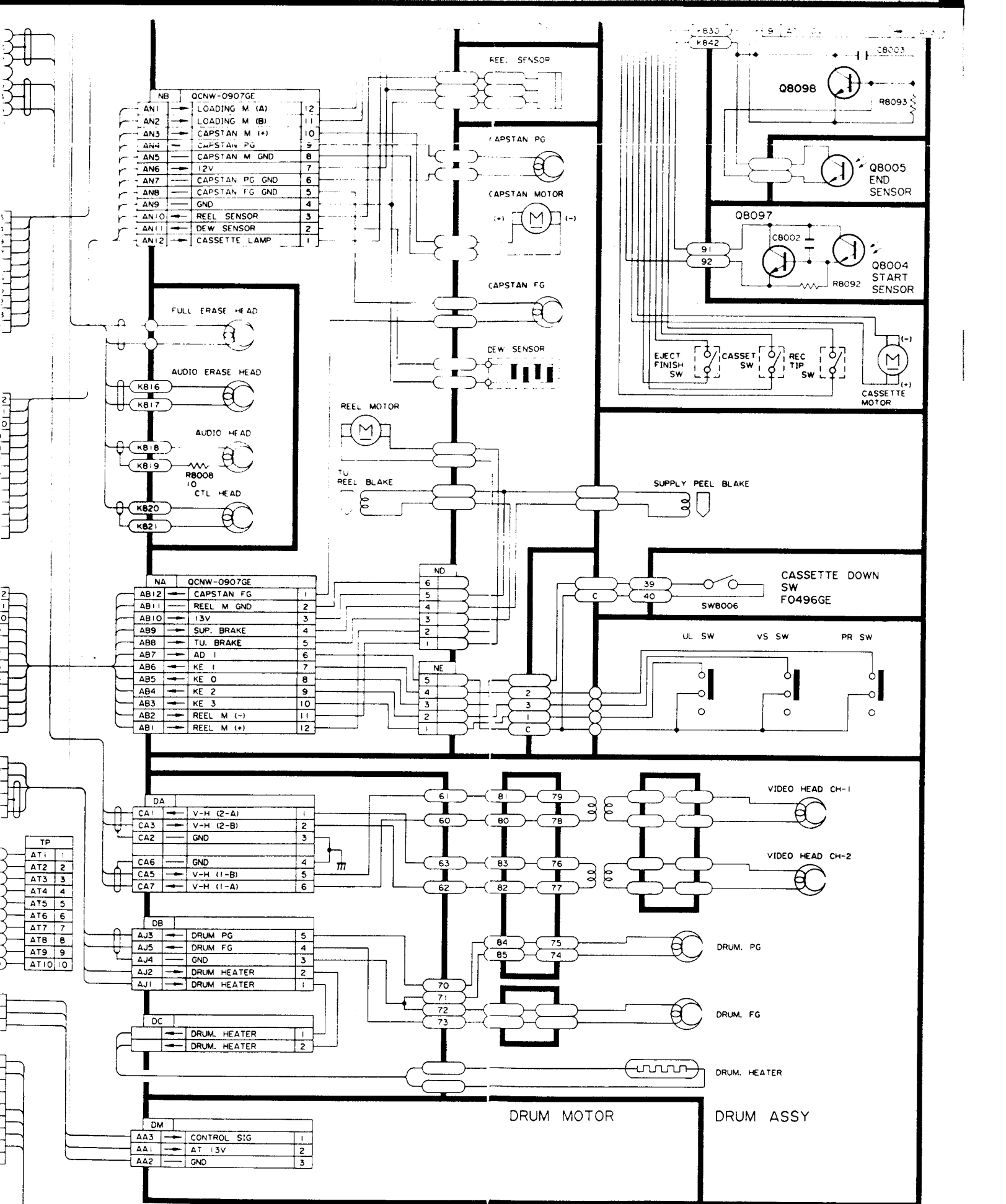
AB12	CAPSTAN FG	1
AB11	REEL M GND	2
AB10	13V	3
AB9	SUP. BRAKE	4
AB8	TU. BRAKE	5
AB7	AD 1	6
AB6	KE 1	7
AB5	KE 0	8
AB4	KE 2	9
AB3	KE 3	10
AB2	REEL M (-)	11
AB1	REEL M (+)	12

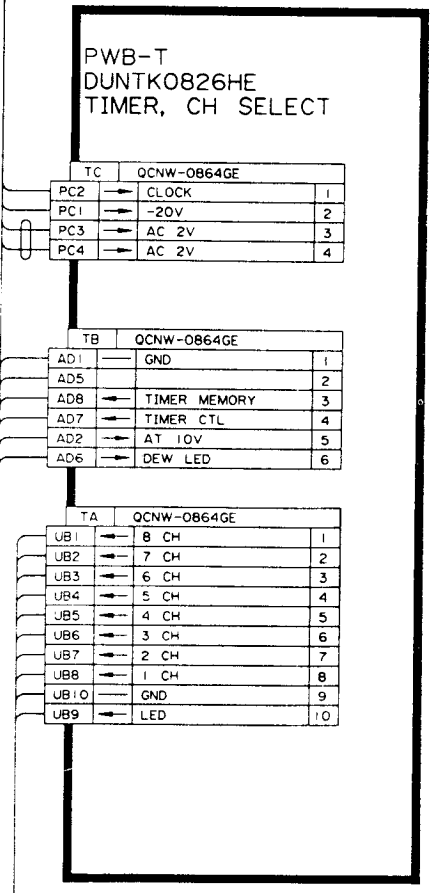
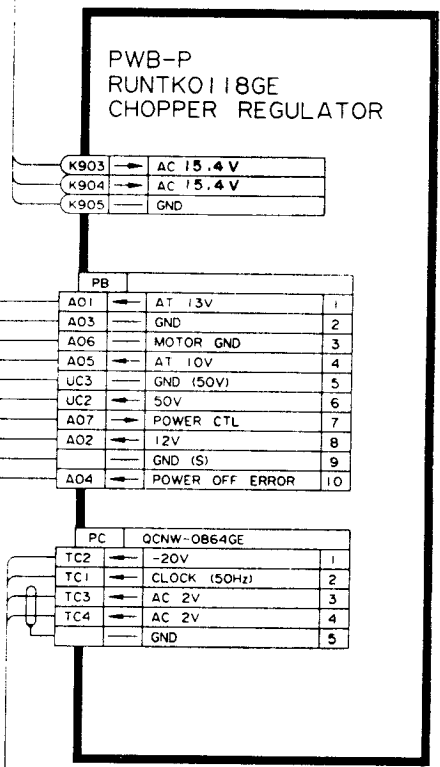
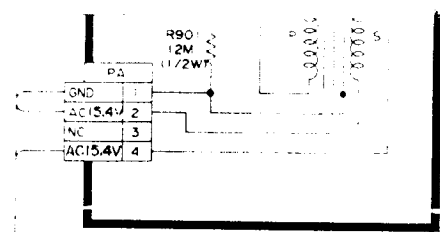
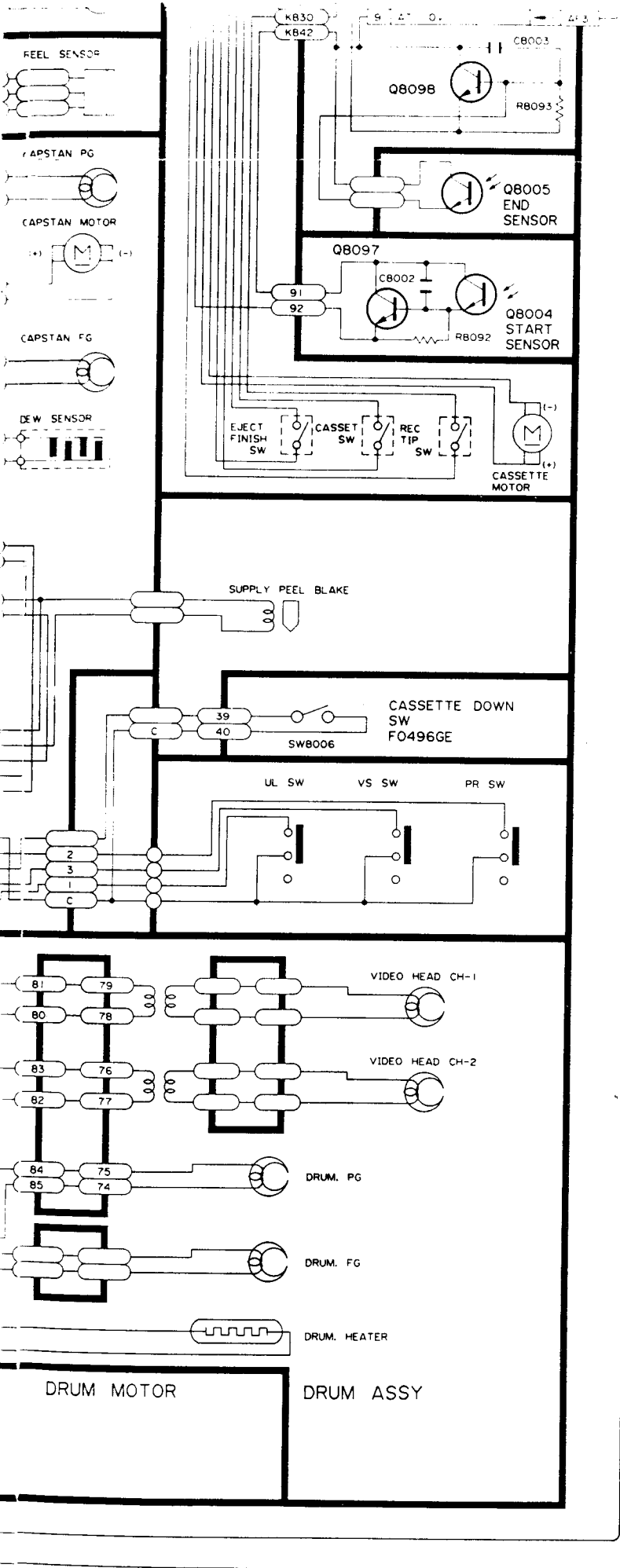
CA1	V-H (2-A)	1
CA3	V-H (2-B)	2
CA2	GND	3
		4
CA6	GND	4
CA5	V-H (1-B)	5
CA7	V-H (1-A)	6

AJ3	DRUM PG	5
AJ5	DRUM FG	4
AJ4	GND	3
AJ2	DRUM HEATER	2
AJ1	DRUM HEATER	1

DC	DRUM. HEATER	1
	DRUM. HEATER	2

AA3	CONTROL SIG	1
AA1	AT 13V	2
AA2	GND	3





D

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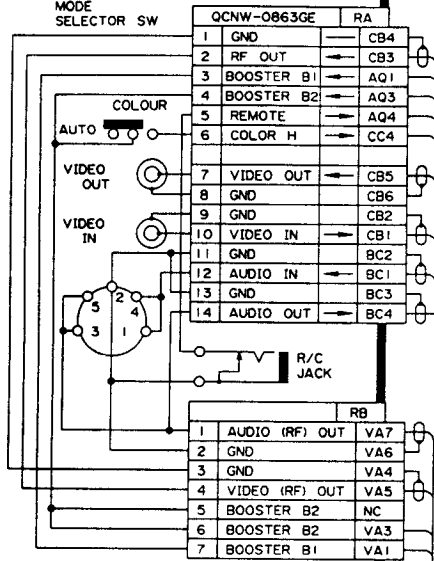
L

OVERALL SCHEMATIC DIAGRAM (VC-383H)

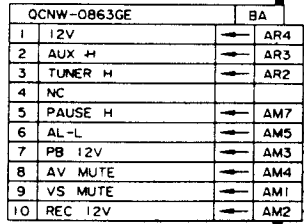
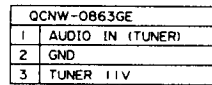
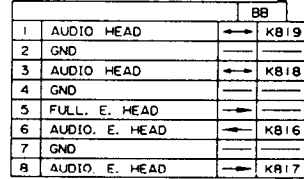
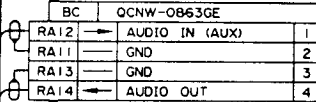
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BACK PANEL ASSY
 QTANN9057GEZZ

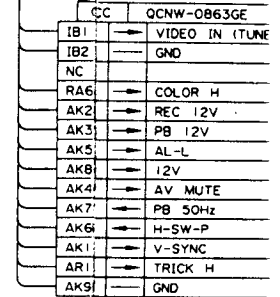
COLOUR
 MODE
 SELECTOR SW



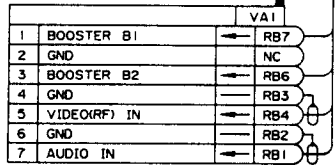
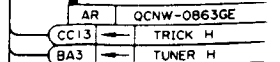
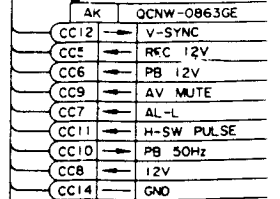
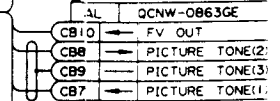
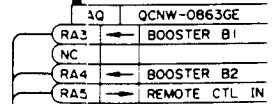
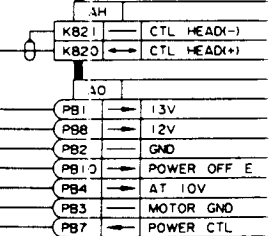
PWB-B AUDIO
 DUNTK0820HE



PWB-C VIDEO
 DUNTK0809HI

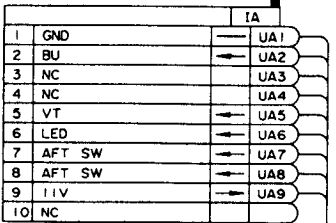
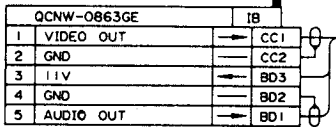


PWB-A MECH
 DUNTK0871HE



RF OUT
 TO TUNER

PWB-I TUNER.IF
 DUNTK0755HE



RF IN

WB-B AUDIO
DUNTK0820HE

QCNW-0863GE	
AUDIO IN (AUX)	1
GND	2
GND	3
AUDIO OUT	4

BB	
AUDIO HEAD	↔ KB19
GND	↔
AUDIO HEAD	↔ KB18
GND	↔
FULL. E. HEAD	↔
AUDIO. E. HEAD	↔ KB16
GND	↔
AUDIO. E. HEAD	↔ KB17

QCNW-0863GE	
AUDIO IN (TUNER)	↔ IB5
GND	↔ IB4
TUNER 11V	↔ IB3

QCNW-0863GE	
12V	↔ AR4
AUX H	↔ AR3
TUNER H	↔ AR2
NC	↔
PAUSE H	↔ AM7
AL-L	↔ AM5
PB 12V	↔ AM3
AV MUTE	↔ AM4
VS MUTE	↔ AM1
REC 12V	↔ AM2

PWB-C VIDEO
DUNTK0809HE

QCNW-0863GE	
VIDEO IN (TUNER)	1
GND	2
NC	3
COLOR H	4
REC 12V	5
PB 12V	6
AL-L	7
12V	8
AV MUTE	9
PB 50Hz	10
H-SW-P	11
V-SYNC	12
TRICK H	13
GND	14

QCNW-0863GE	
VIDEO IN (AUX)	↔ RA10
GND	↔ RA9
VIDEO OUT (RF)	↔ RA2
GND	↔ RA1
VIDEO OUT	↔ RA7
GND	↔ RA8
P TONE(1)	↔ AL4
P TONE(2)	↔ AL2
P TONE(3)	↔ AL3
FV IN	↔ AL1

CA	
V-H (2-A)	↔ DA1
GND	↔ DA3
V-H (2-B)	↔ DA2
GND	↔ NC
V-H (1-B)	↔ DA5
GND	↔ DA4
V-H (1-A)	↔ DA6

PWB-A MECHANISM CONTROL
DUNTK0871HE

AH	
CTL HEAD(-)	1
CTL HEAD(+)	2

AO	
13V	1
12V	2
GND	3
POWER OFF E	4
AT 10V	5
MOTOR GND	6
POWER CTL	7

AQ	
BOOSTER B1	1
NC	2
BOOSTER B2	3
REMOTE CTL IN	4

AL	
FV OUT	1
PICTURE TONE(2)	2
PICTURE TONE(3)	3
PICTURE TONE(1)	4

AK	
V-SYNC	1
RFC 12V	2
PB 12V	3
AV MUTE	4
AL-L	5
H-SW PULSE	6
PB 50Hz	7
12V	8
GND	9

AR	
TRICK H	1
TUNER H	2
DA5	3

AF	
CASSET M (+)	↔ MA3
CASSET M (-)	↔ MA4
AT 10V	↔ MA9
AD 2	↔ MA7
KE 0	↔ MA1
KE 2	↔ MA6
KE 3	↔ MA5
START SENSOR	↔ MA2
END SENSOR	↔ MAB

QCNW-0907GE	
LOADING MA	↔ NB12
LOADING MB	↔ NB11
CAPSTAN M(+)	↔ NB10
CAPSTAN PG	↔ NB9
CAPSTAN M GND	↔ NB8
12V	↔ NB7
CAPSTAN PG GND	↔ NB6
CAPSTAN FG GND	↔ NB5
GND	↔ NB4
REEL SENSOR	↔ NB3
DEW SENSOR	↔ NB2
CASSET LAMP	↔ NB1

QCNW-0907GE	
REEL M (+)	↔ NA12
REEL M (-)	↔ NA11
KE 3	↔ NA10
KE 2	↔ NA9
KE 0	↔ NA8
KE 1	↔ NA7
AD 1	↔ NA6
TU BRAKE	↔ NA5
SUP BRAKE	↔ NA4
13V	↔ NA3
REEL M GND	↔ NA2
CAPSTAN FG	↔ NA1

MECHA

NB	
LOADING	↔ AN1
LOADING	↔ AN2
CAPSTAN	↔ AN3
CAPSTAN	↔ AN4
CAPSTAN	↔ AN5
12V	↔ AN6
CAPSTAN	↔ AN7
CAPSTAN	↔ AN8
GND	↔ AN9
REEL	↔ AN10
DEW	↔ AN11
CASSET	↔ AN12

FULL ERAS

AUDIO ERA

AUDIO

CTL

NA	
CAPSTAN	↔ AB12
REEL	↔ AB11
13V	↔ AB10
SUP. E	↔ AB9
TU. BF	↔ AB8
AD 1	↔ AB7
KE 1	↔ AB6
KE 0	↔ AB5
KE 2	↔ AB4
KE 3	↔ AB3
REEL	↔ AB2
REEL	↔ AB1

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QCNW-0863GE		CB
1	VIDEO IN (AUX)	RA10
2	GND	RA9
3	VIDEO OUT (RF)	RA2
4	GND	RA1
5	VIDEO OUT	RA7
6	GND	RAB
7	P TONE(1)	AL4
8	P TONE(2)	AL2
9	P TONE(3)	AL3
10	FV IN	AL1

		CA
1	V-H (2-A)	DA1
2	GND	DA3
3	V-H (2-B)	DA2
4	GND	NC
5	V-H (1-B)	DA5
6	GND	DA4
7	V-H (1-A)	DA6

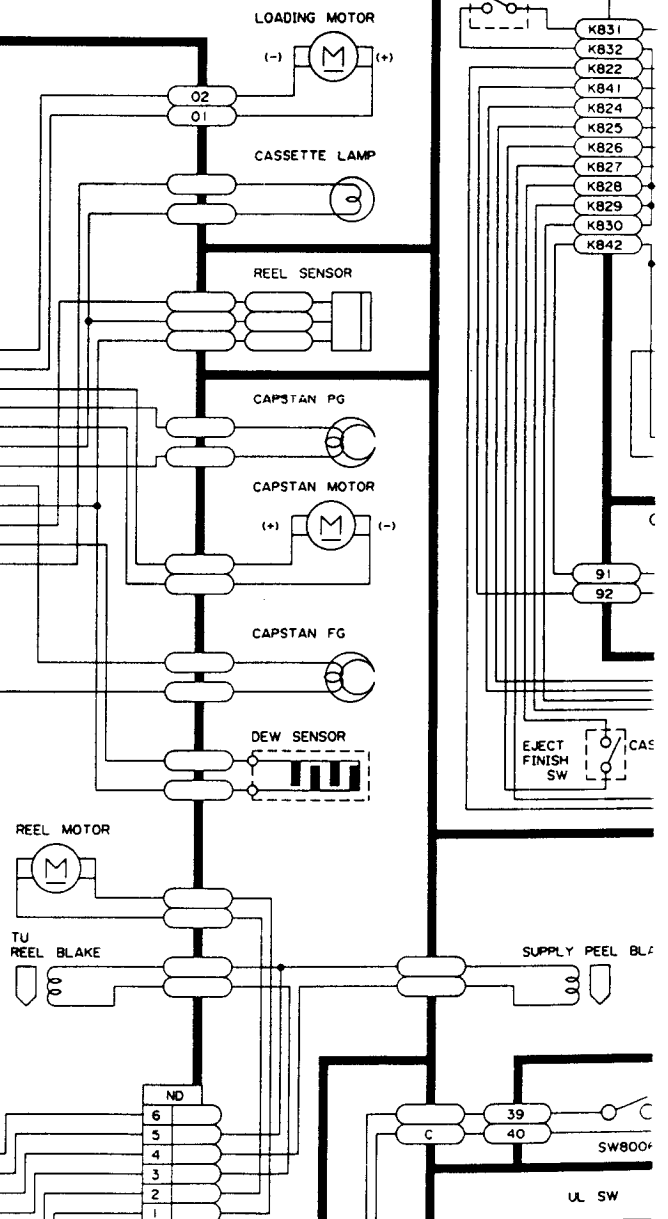
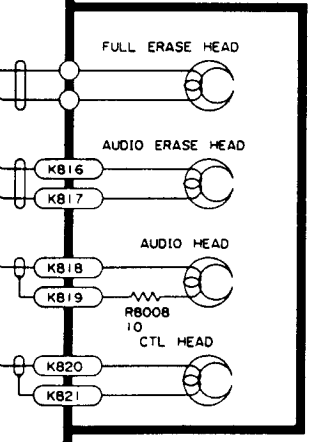
		AF
1	CASSET M (+)	MA3
2	CASSET M (-)	MA4
3	AT 10V	MA9
4	AD 2	MA7
5	KE 0	MA1
6	KE 2	MA6
7	KE 3	MA5
8	START SENSOR	MA2
9	END SENSOR	MAB

QCNW-0907GE		AN
1	LOADING M(A)	NB12
2	LOADING M(B)	NB11
3	CAPSTAN M(+)	NB10
4	CAPSTAN PG	NB9
5	CAPSTAN M GND	NB8
6	12V	NB7
7	CAPSTAN PG GND	NB6
8	CAPSTAN FG GND	NB5
9	GND	NB4
10	REEL SENSOR	NB3
11	DEW SENSOR	NB2
12	CASSET LAMP	NB1

QCNW-0907GE		AB
1	REEL M (+)	NA12
2	REEL M (-)	NA11
3	KE 3	NA10
4	KE 2	NA9
5	KE 0	NA8
6	KE 1	NA7
7	AD 1	NA6
8	TU BRAKE	NA5
9	SUP BRAKE	NA4
10	13V	NA3
11	REEL M GND	NA2
12	CAPSTAN FG	NA1

MECHA ASSY

NB		QCNW-0907GE	
AN1	LOADING M (A)	12	
AN2	LOADING M (B)	11	
AN3	CAPSTAN M (+)	10	
AN4	CAPSTAN PG	9	
AN5	CAPSTAN M GND	8	
AN6	12V	7	
AN7	CAPSTAN PG GND	6	
AN8	CAPSTAN FG GND	5	
AN9	GND	4	
AN10	REEL SENSOR	3	
AN11	DEW SENSOR	2	
AN12	CASSETTE LAMP	1	



CONTROL

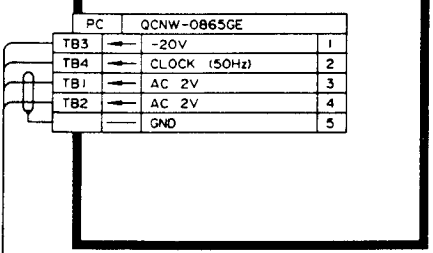
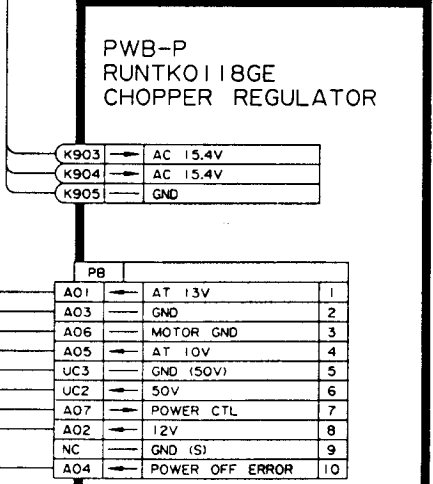
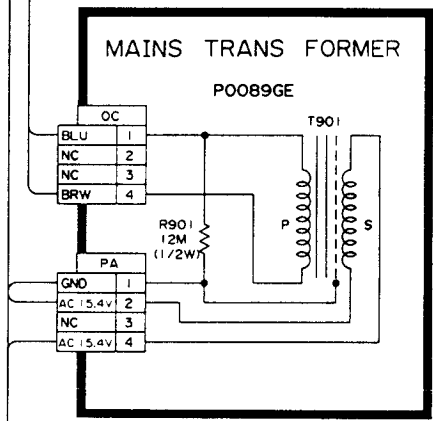
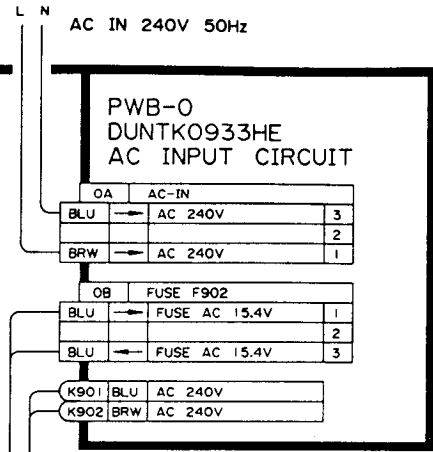
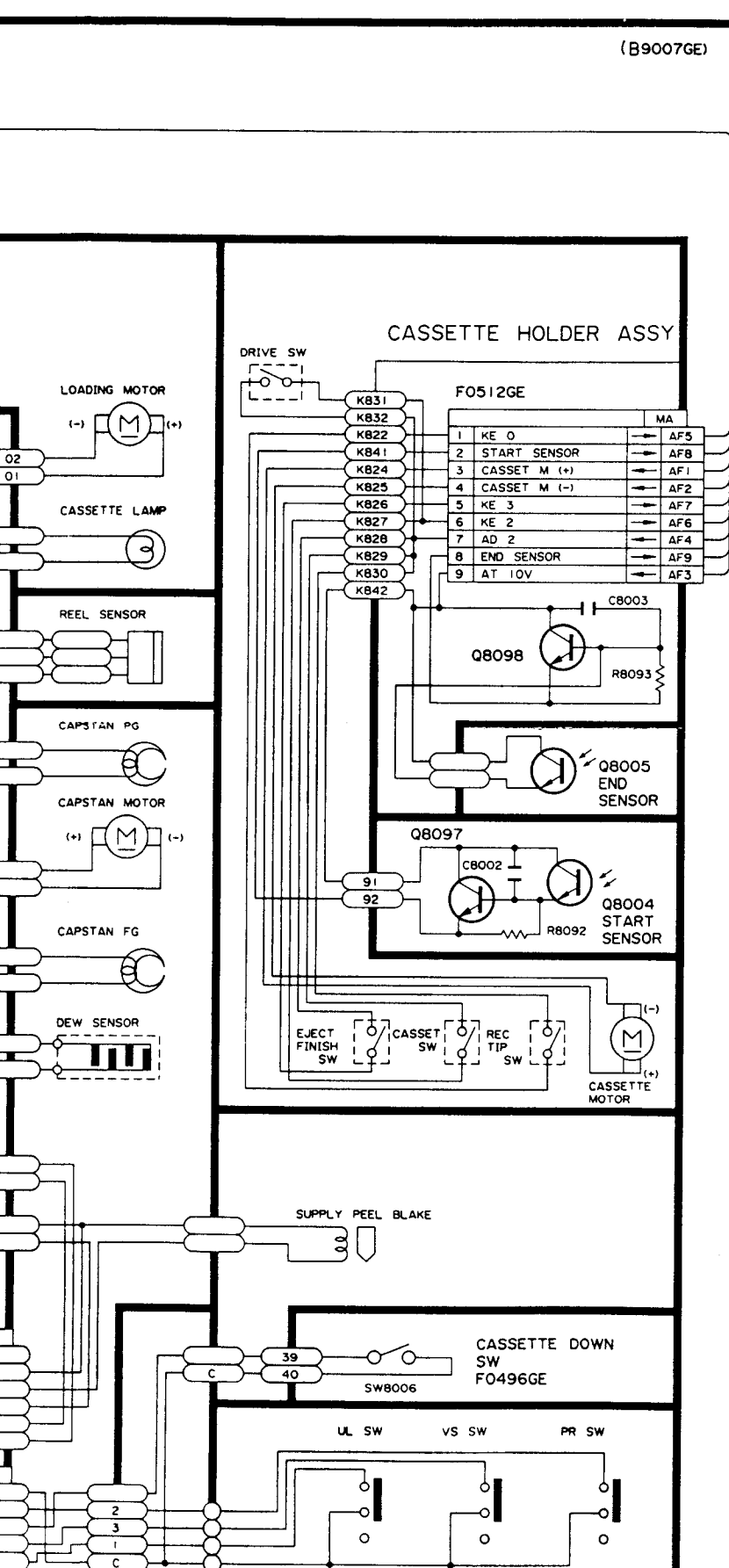
CA

CAS

C

UL SW

(B9007GE)



A
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H

1	AUDIO (RF) OUT	VA7
2	GND	VA6
3	GND	VA4
4	VIDEO (RF) OUT	VA5
5	BOOSTER B2	NC
6	BOOSTER B2	VA3
7	BOOSTER B1	VA1

VA1		
1	BOOSTER B1	RB7
2	GND	NC
3	BOOSTER B2	RB6
4	GND	RB3
5	VIDEO(RF) IN	RB4
6	GND	RB2
7	AUDIO IN	RB1

RF OUT TO TUNER

PWB-I TUNER.IF
DUNTK0755HE

RF IN

QCNW-0863GE		
IB		
1	VIDEO OUT	CC1
2	GND	CC2
3	IIV	BD3
4	GND	BD2
5	AUDIO OUT	BD1

IA		
1	GND	UA1
2	BU	UA2
3	NC	UA3
4	NC	UA4
5	VT	UA5
6	LED	UA6
7	AFT SW	UA7
8	AFT SW	UA8
9	IIV	UA9
10	NC	

PWB-U TUNING
DUNTK0756HE

UA		
1	GND	IA1
2	BU	IA2
3	NC	IA3
4	NC	IA4
5	VT	IA5
6	LED	IA6
7	AFT SW	IA7
8	AFT SW	IA8
9	IIV	IA9

UC		
1		NC
2	50V	PB6
3	GND	PB5

UB		
1	8 CH	TA5
2	7 CH	TA6
3	6 CH	TA7
4	5 CH	TA8
5	4 CH	TA3
6	3 CH	TA4
7	2 CH	TA9
8	1 CH	TA10
9	LED	TA1
10	GND	TA2

BB		
1	AUDIO HEAD	KB19
2	GND	
3	AUDIO HEAD	KB18
4	GND	
5	FULL. E. HEAD	
6	AUDIO. E. HEAD	KB16
7	GND	
8	AUDIO. E. HEAD	KB17

QCNW-0863GE		
BD		
1	AUDIO IN (TUNER)	IB5
2	GND	IB4
3	TUNER IIV	IB3

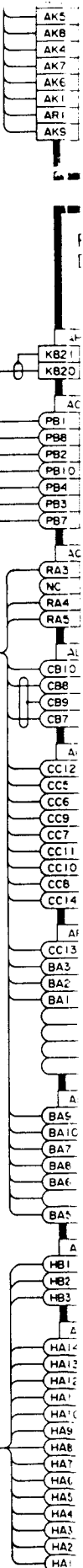
QCNW-0863GE		
BA		
1	12V	AR4
2	AUX H	AR3
3	TUNER H	AR2
4	NC	
5	PAUSE H	AM7
6	AL-L	AM5
7	PB 12V	AM3
8	AV MUTE	AM4
9	VS MUTE	AM1
10	REC 12V	AM2

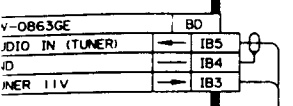
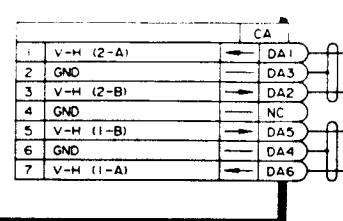
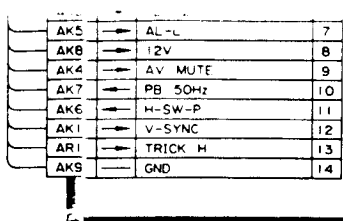
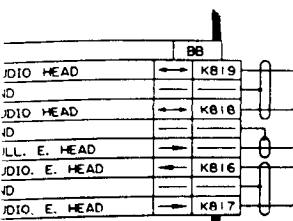
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PWB-H OPERATION
DUNTK0894HE

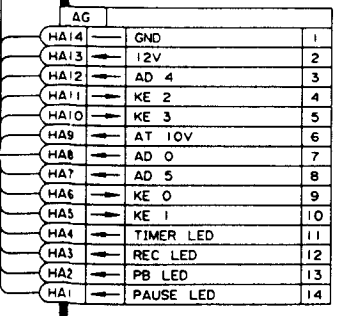
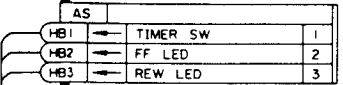
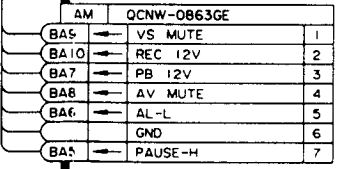
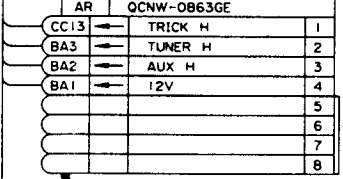
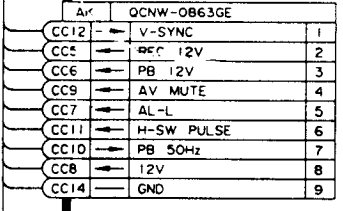
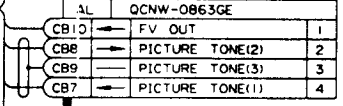
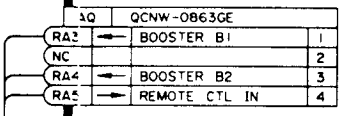
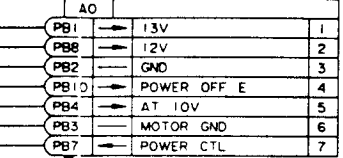
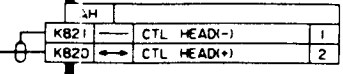
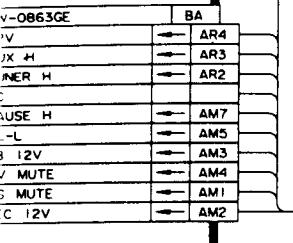
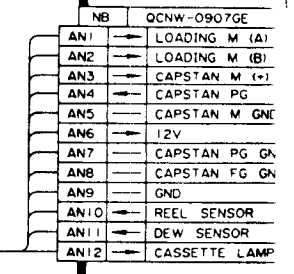
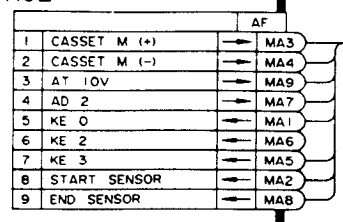
HB		
1	TIMER SW	AS1
2	FF LED	AS2
3	REW LED	AS3

HA		
1	PAUSE LED	AG14
2	PB LED	AG13
3	REC LED	AG12
4	TIMER LED	AG11
5	KE 1	AG10
6	KE 0	AG9
7	AD 5	AG8
8	AD 0	AG7
9	AT 10V	AG6
10	KE 3	AG5
11	KE 2	AG4
12	AD 4	AG3
13	12V	AG2
14	GND	AG1

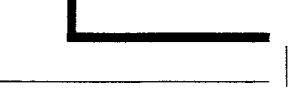
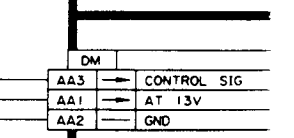
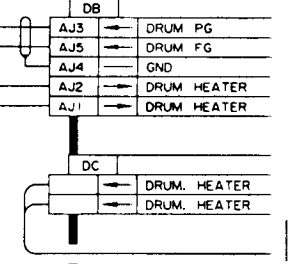
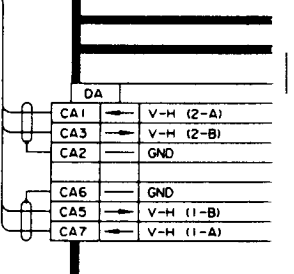
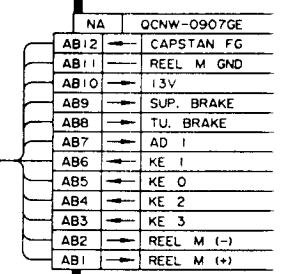
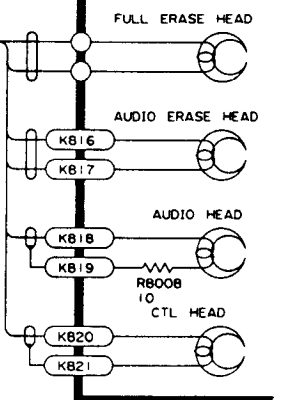
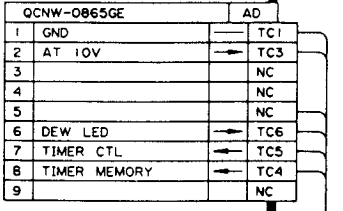
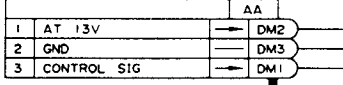
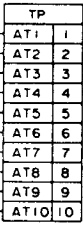
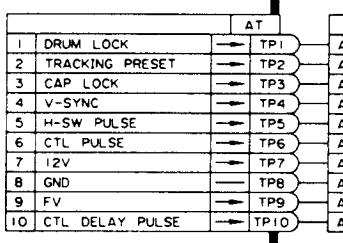
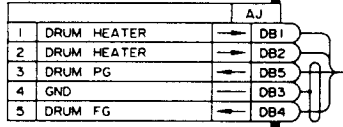
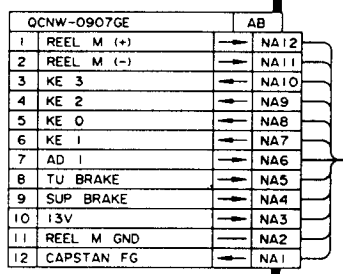
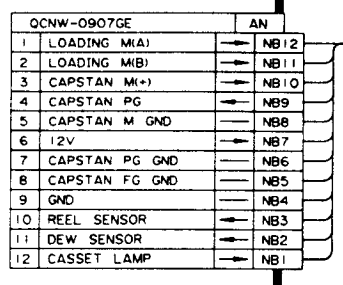
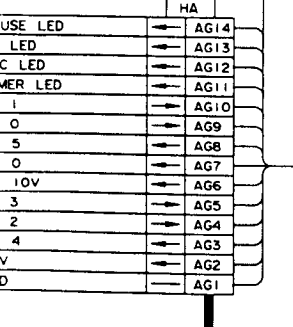
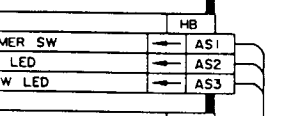


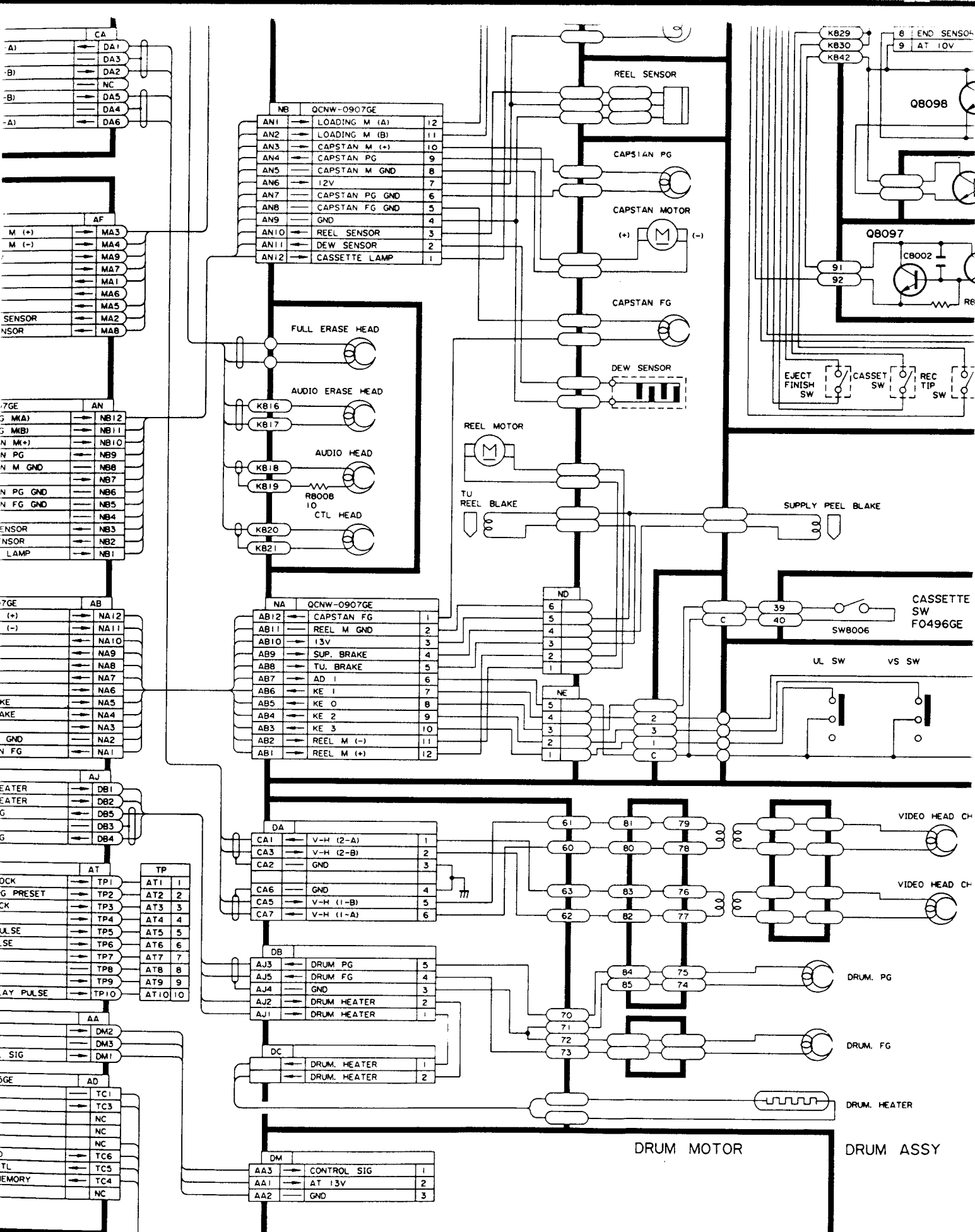


PWB-A MECHANISM CONTROL DUNTK0871HE

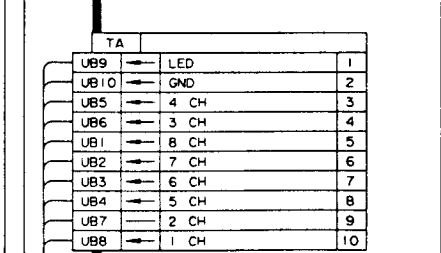
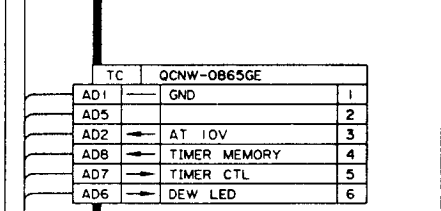
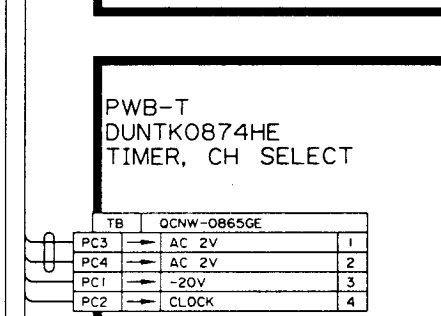
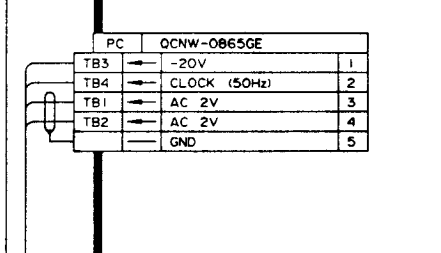
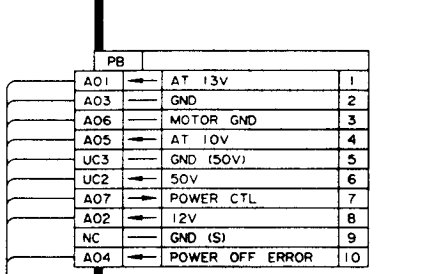
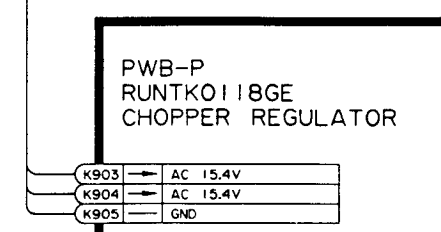
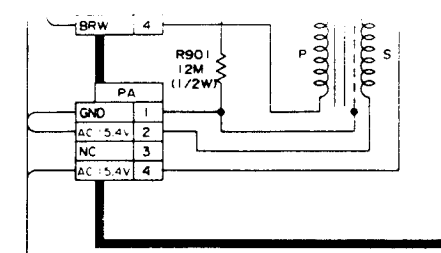
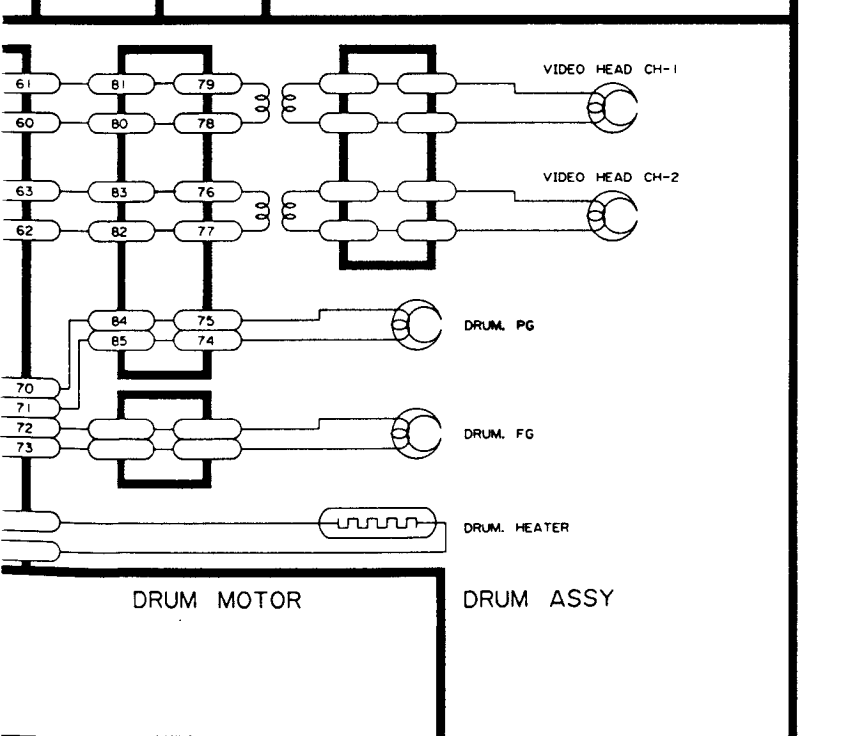
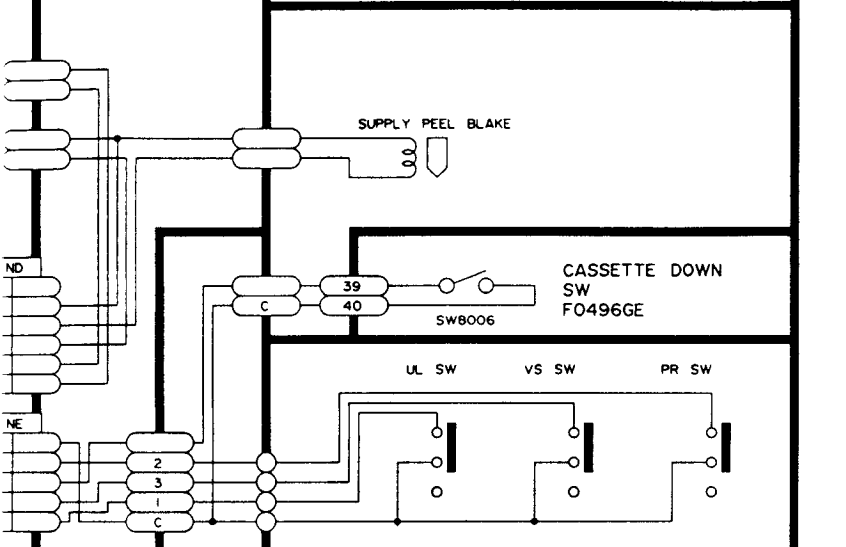
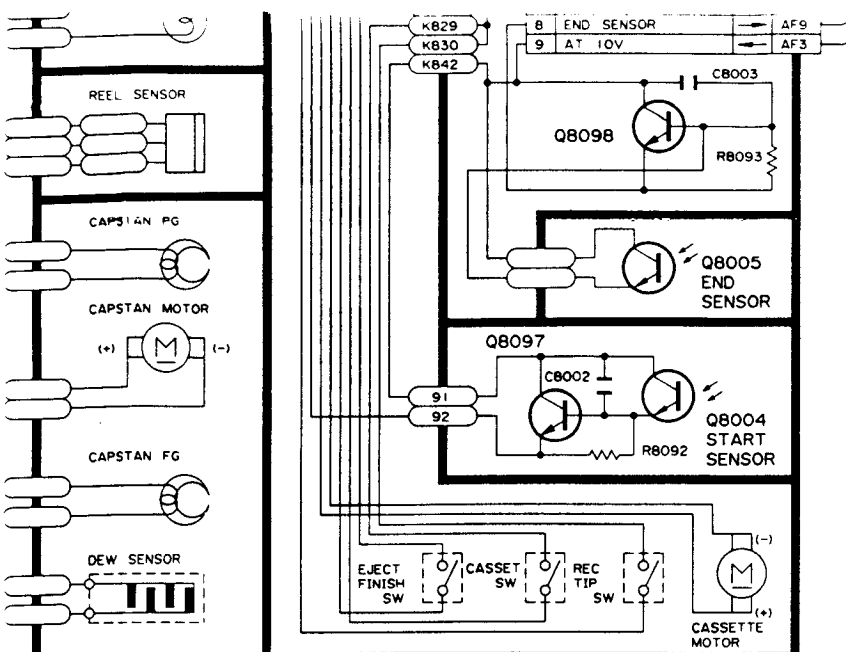


OPERATION 894HE





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D

E

F

G

H

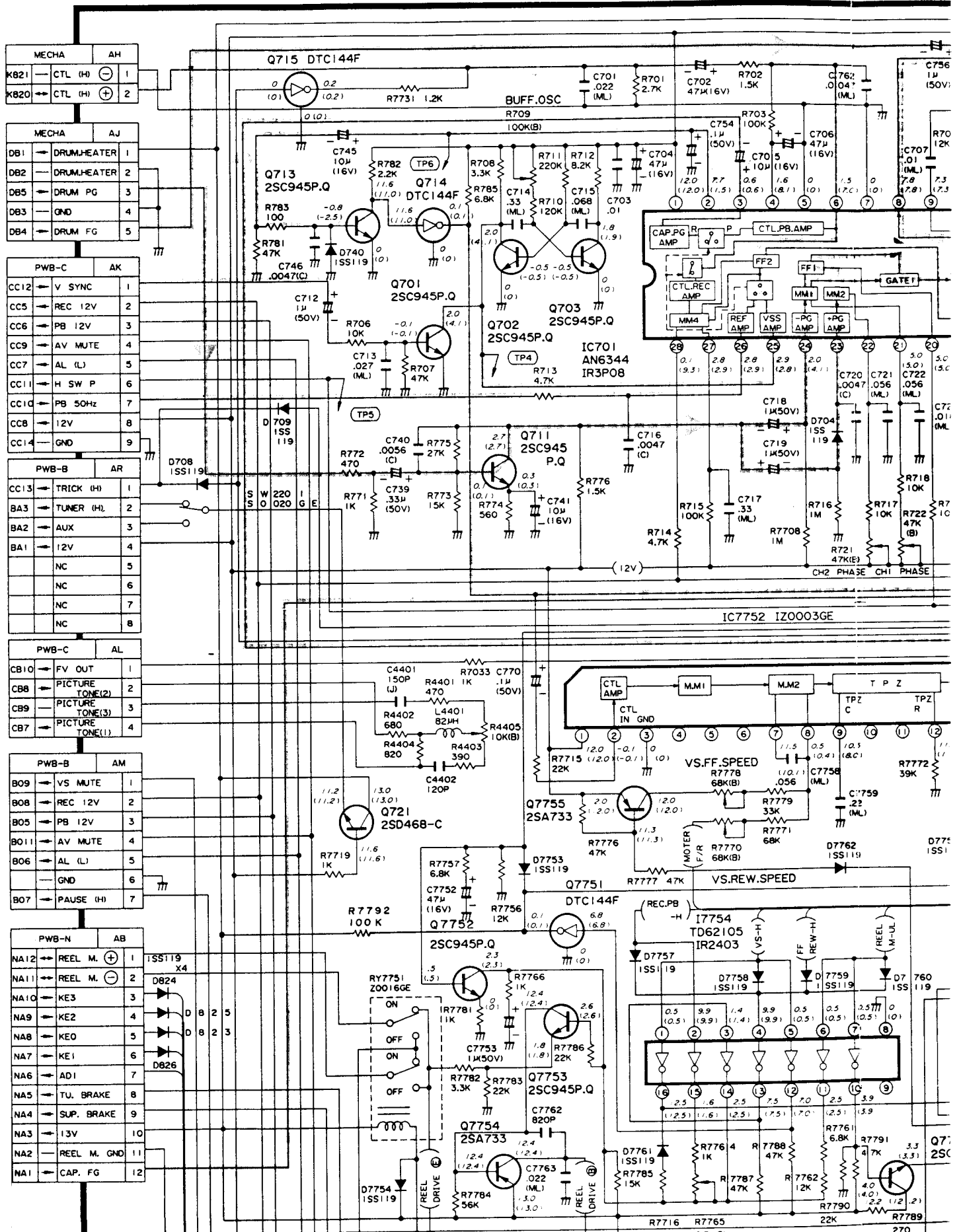
I

J

K

L

PWB-A, MECHANICAL CONTROL CIRCUIT SCHEMATIC DIAGRAM (VC-381H,W)



MECHA		AH
K821	CTL (H)	1
K820	CTL (H)	2

MECHA		AJ
DB1	DRUM HEATER	1
DB2	DRUM HEATER	2
DB5	DRUM PG	3
DB3	GND	4
DB4	DRUM FG	5

PWB-C		AK
CC12	V SYNC	1
CC5	REC 12V	2
CC6	PB 12V	3
CC9	AV MUTE	4
CC7	AL (L)	5
CC11	H SW P	6
CC10	PB 50Hz	7
CC8	12V	8
CC14	GND	9

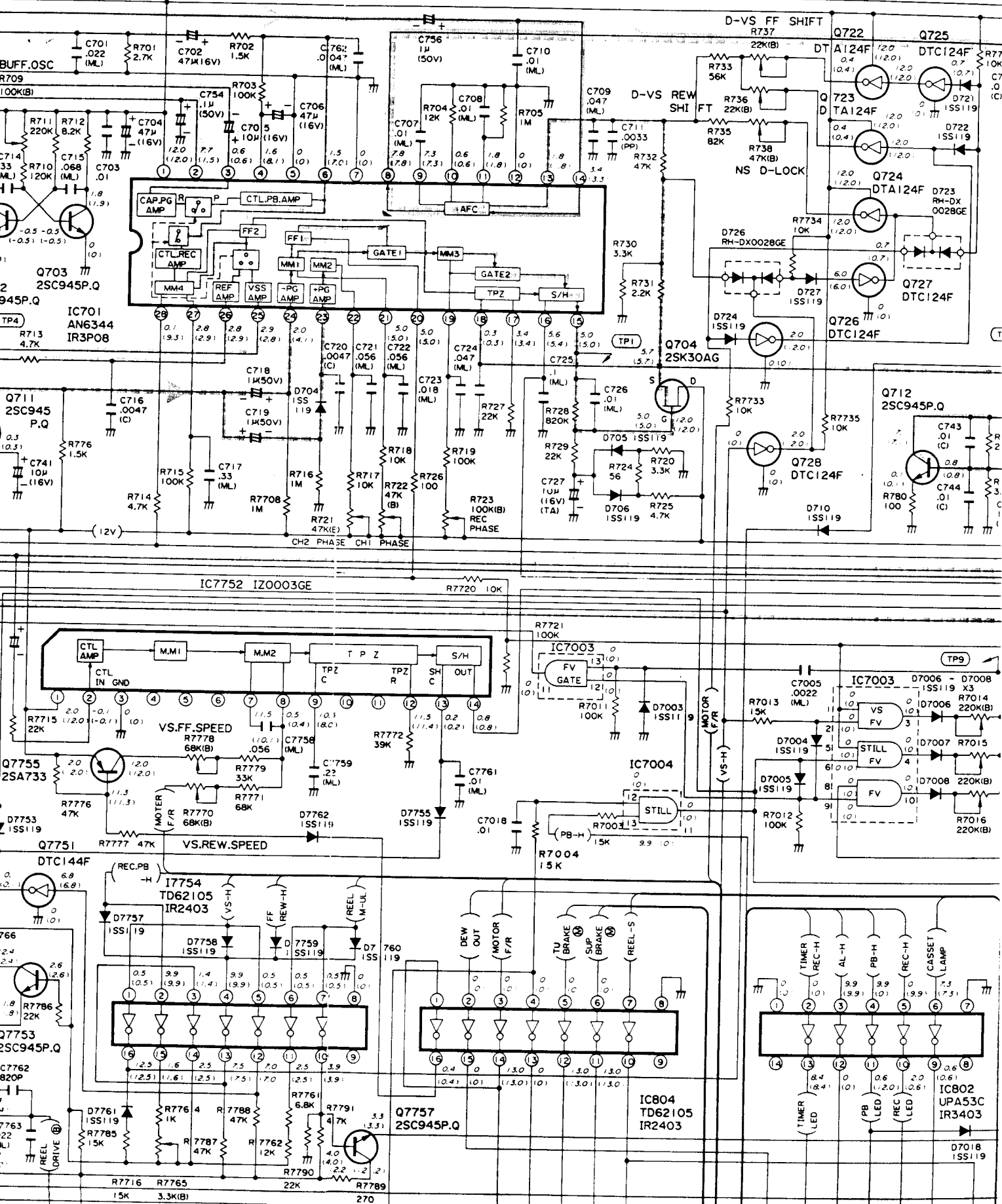
PWB-B		AR
CC13	TRICK (H)	1
BA3	TUNER (H)	2
BA2	AUX	3
BA1	12V	4
	NC	5
	NC	6
	NC	7
	NC	8

PWB-C		AL
CB10	FV OUT	1
CB8	PICTURE TONE(2)	2
CB9	PICTURE TONE(3)	3
CB7	PICTURE TONE(1)	4

PWB-B		AM
B09	VS MUTE	1
B08	REC 12V	2
B05	PB 12V	3
B011	AV MUTE	4
B06	AL (L)	5
	GND	6
B07	PAUSE (H)	7

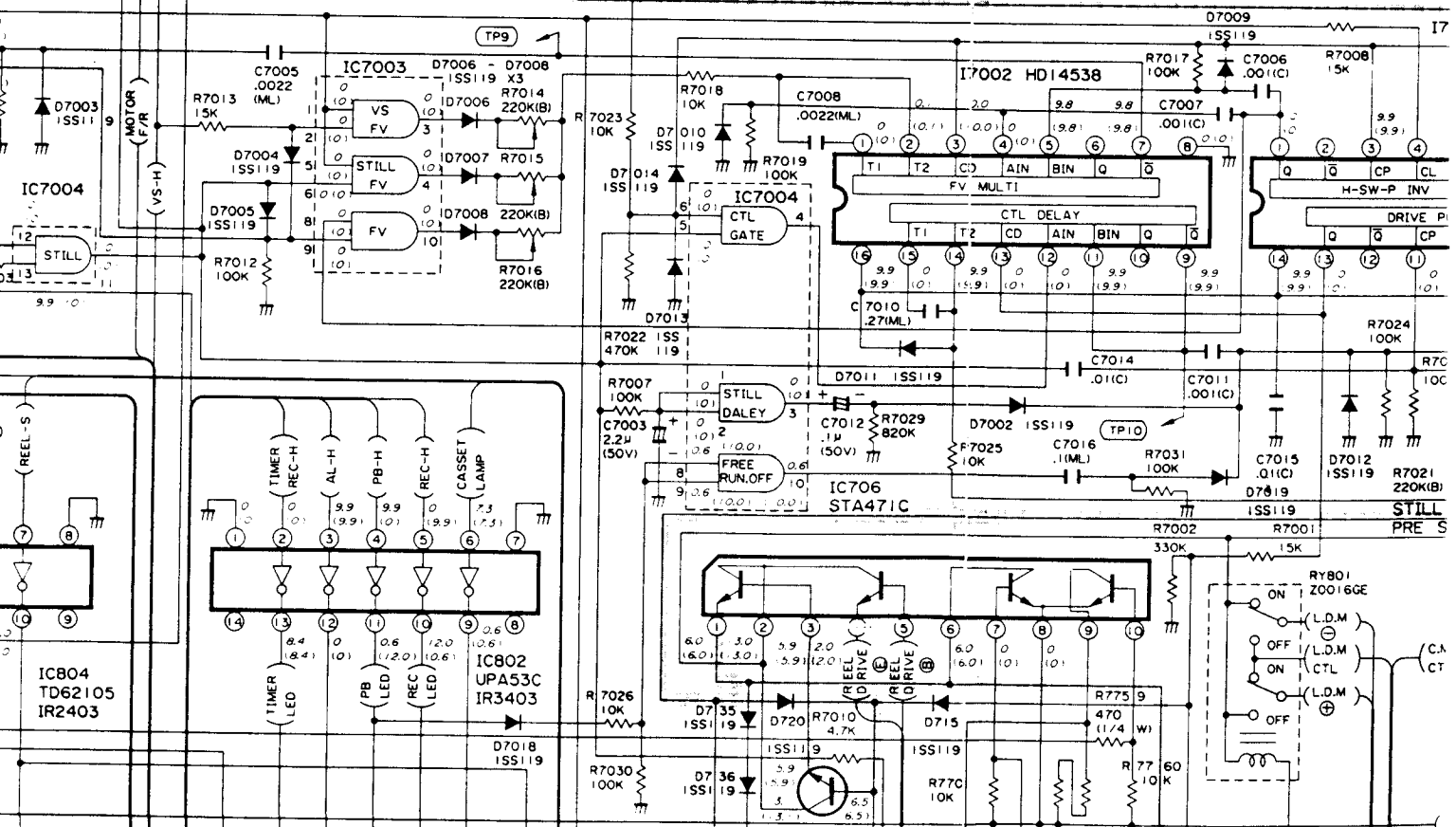
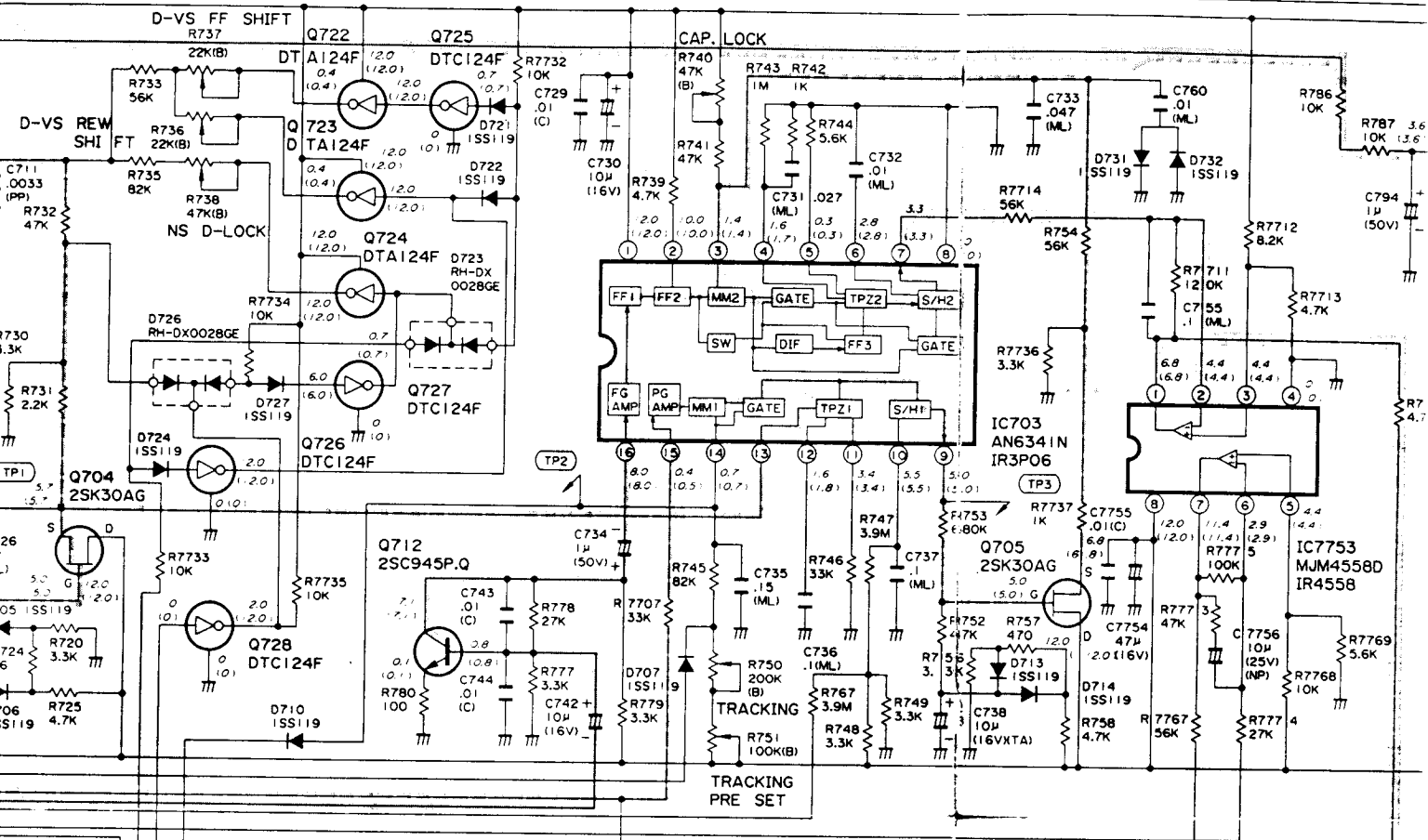
PWB-N		AB
NA12	REEL M. (+)	1
NA11	REEL M. (-)	2
NA10	KE3	3
NA9	KE2	4
NA8	KE0	5
NA7	KE1	6
NA6	AD1	7
NA5	TU. BRAKE	8
NA4	SUP. BRAKE	9
NA3	13V	10
NA2	REEL M. GND	11
NA1	CAP. FG	12

(VC-381H,W)

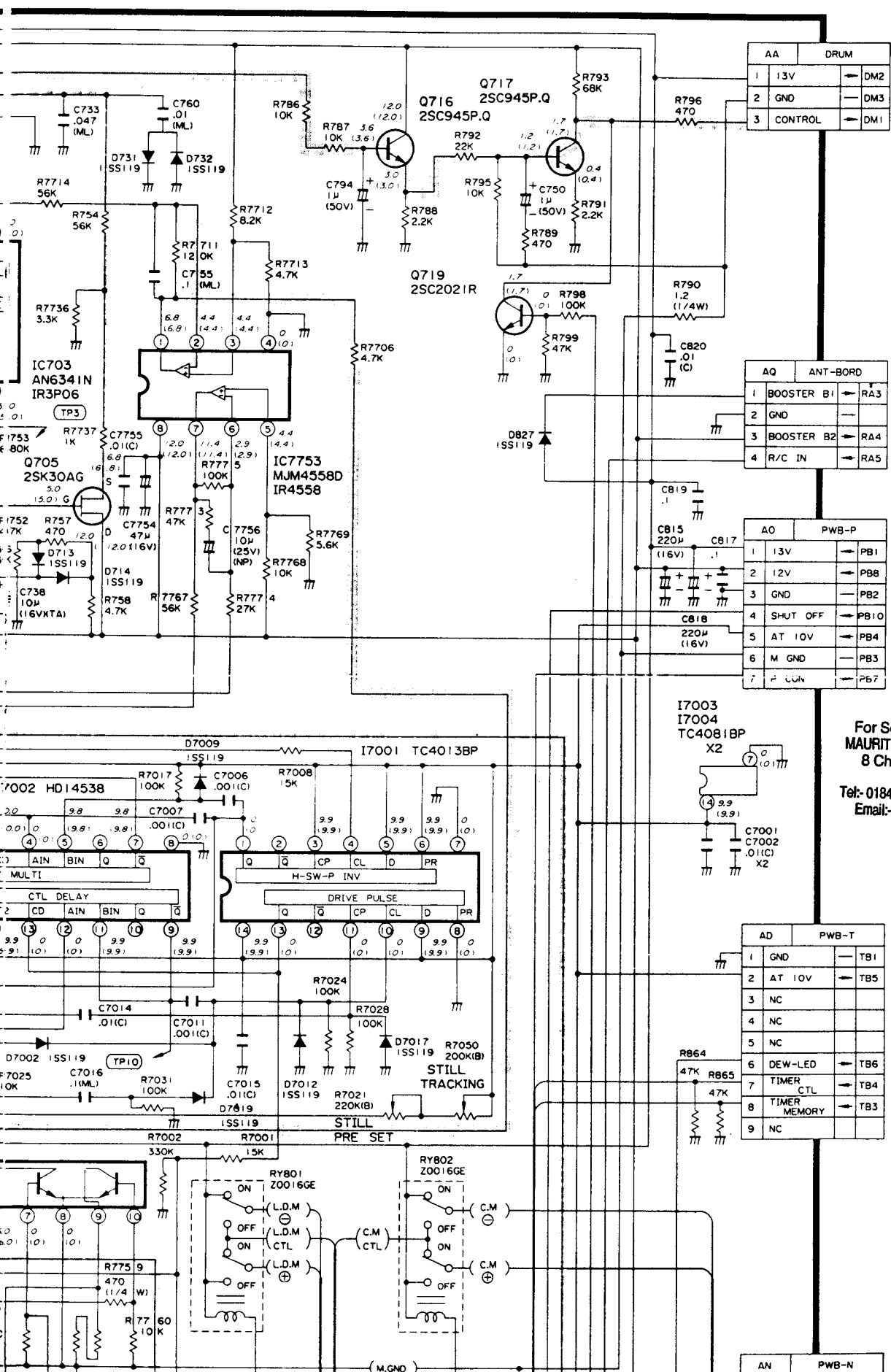


Capstan servo frequency control comparison signal
 Capstan servo phase control comparison signal

Capstan servo phase
 reference signal



Comparison signal
Reference signal
Capstan servo phase control reference signal
Drum servo frequency control comparison signal
Drum servo phase control comparison signal



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A
B
C
D
E
F
G
H

AA		DRUM	
1	13V	DM2	
2	GND	DM3	
3	CONTROL	DM1	

AQ		ANT-BORD	
1	BOOSTER B1	RA3	
2	GND		
3	BOOSTER B2	RA4	
4	R/C IN	RA5	

AO		PWB-P	
1	13V	PB1	
2	12V	PB8	
3	GND	PB2	
4	SHUT OFF	PB10	
5	AT 10V	PB4	
6	M GND	PB3	
7	CUN	PB7	

AD		PWB-T	
1	GND	TB1	
2	AT 10V	TB5	
3	NC		
4	NC		
5	NC		
6	DEW-LED	TB6	
7	TIMER CTL	TB4	
8	TIMER MEMORY	TB3	
9	NC		

AN		PWB-N	

CC13	TRICK (H)	1
BA3	TUNER (H)	2
BA2	AUX	3
BA1	12V	4
	NC	5
	NC	6
	NC	7
	NC	8

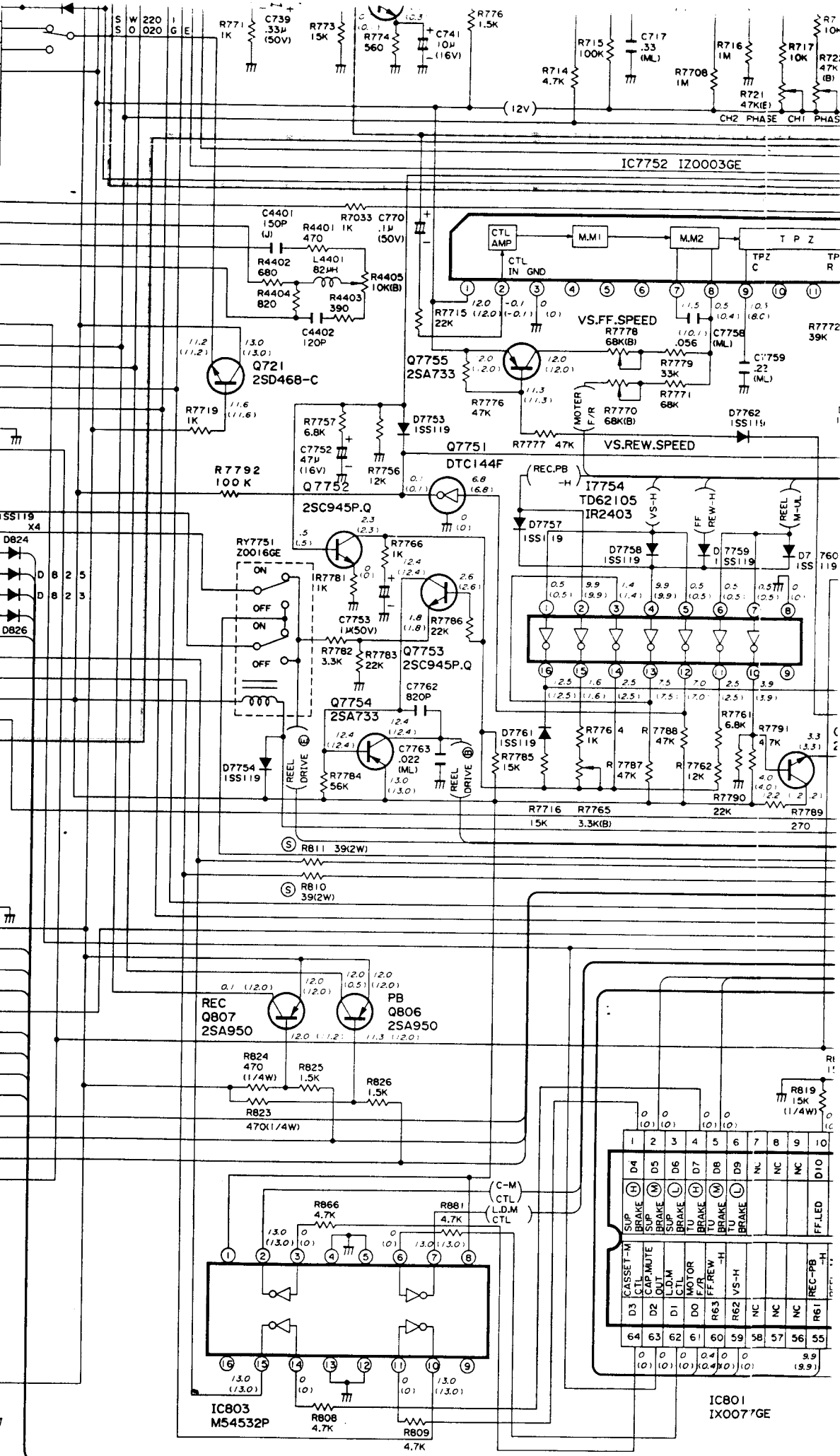
PWB-C		AL
CB10	FV OUT	1
CB8	PICTURE TONE(2)	2
CB9	PICTURE TONE(3)	3
CB7	PICTURE TONE(1)	4

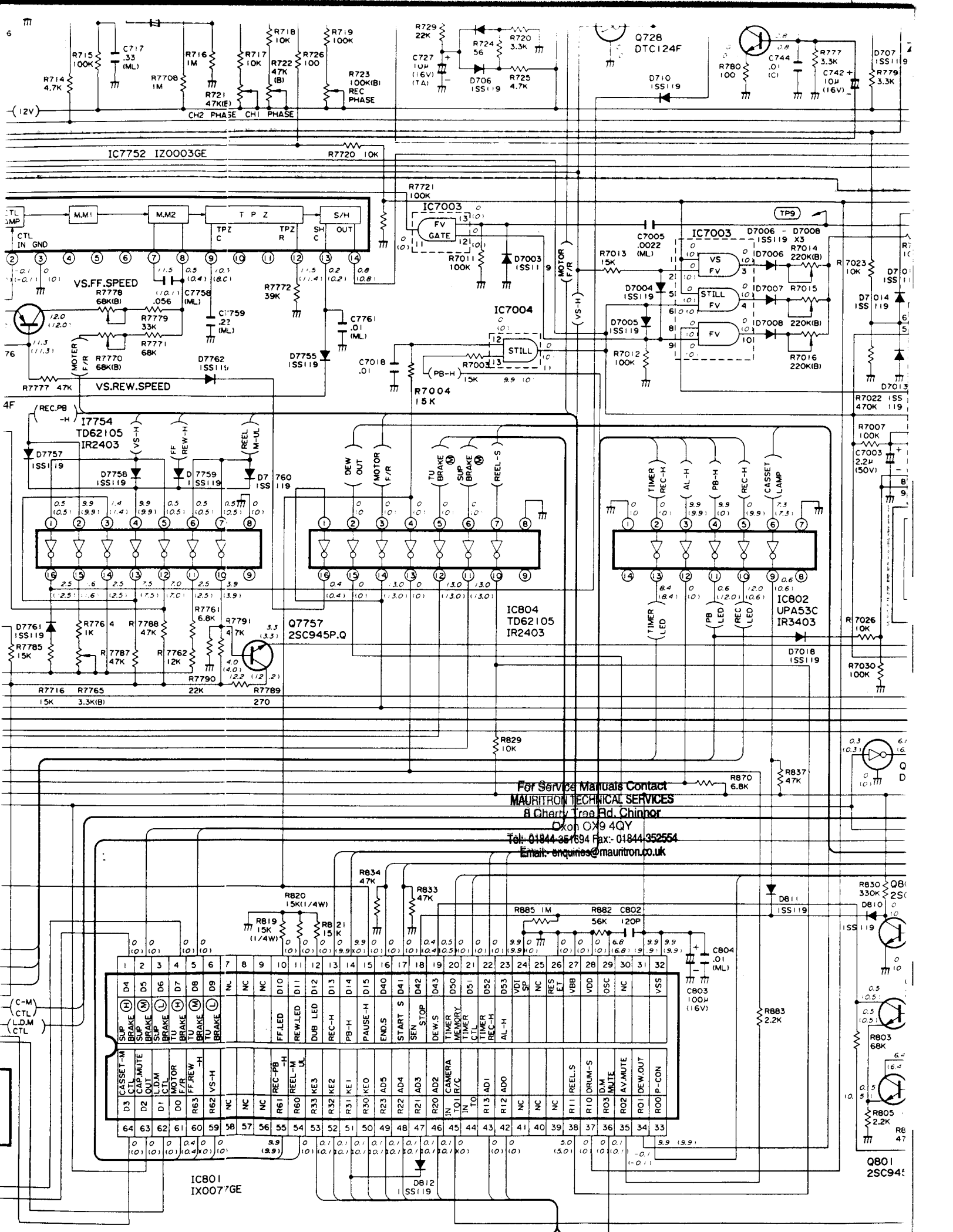
PWB-B		AM
BO9	VS MUTE	1
BO8	REC 12V	2
BO5	PB 12V	3
BO11	AV MUTE	4
BO6	AL (L)	5
	GND	6
BO7	PAUSE (H)	7

PWB-N		AB
NA12	REEL M. (+)	1
NA11	REEL M. (-)	2
NA10	KE3	3
NA9	KE2	4
NA8	KE0	5
NA7	KE1	6
NA6	AD1	7
NA5	TU. BRAKE	8
NA4	SUP. BRAKE	9
NA3	13V	10
NA2	REEL M. GND	11
NA1	CAP. FG	12

PWB-H		AG
HA14	GND	1
HA13	12V	2
HA12	AD4	3
HA11	KE2	4
HA10	KE3	5
HA9	AT 10V	6
HA8	ADO	7
HA7	AD5	8
HA6	KE0	9
HA5	KE1	10
HA4	TIMER LED	11
HA3	REC LED	12
HA2	PB LED	13
HA1	PAUSE LED	14

TEST-POINT		AT
TP1	D. LOCK	1
TP2	TRACKING PRE. SET	2
TP3	CAP. LOCK	3
TP4	BUFF. OSC.	4
TP5	H SW P	5
TP6	CTL PULSE	6
TP7	12V	7
TP8	GND	8
TP9	FV	9
TP10	CTL DELAY PULSE	10



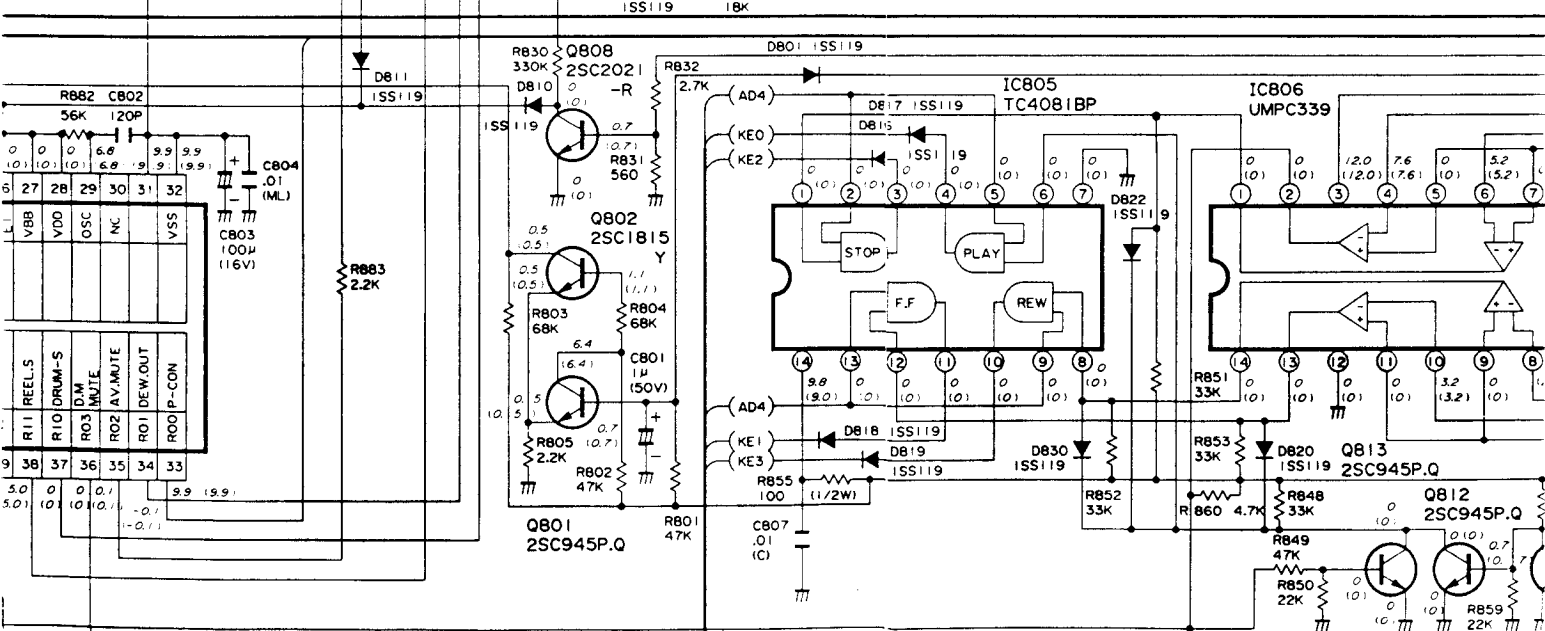
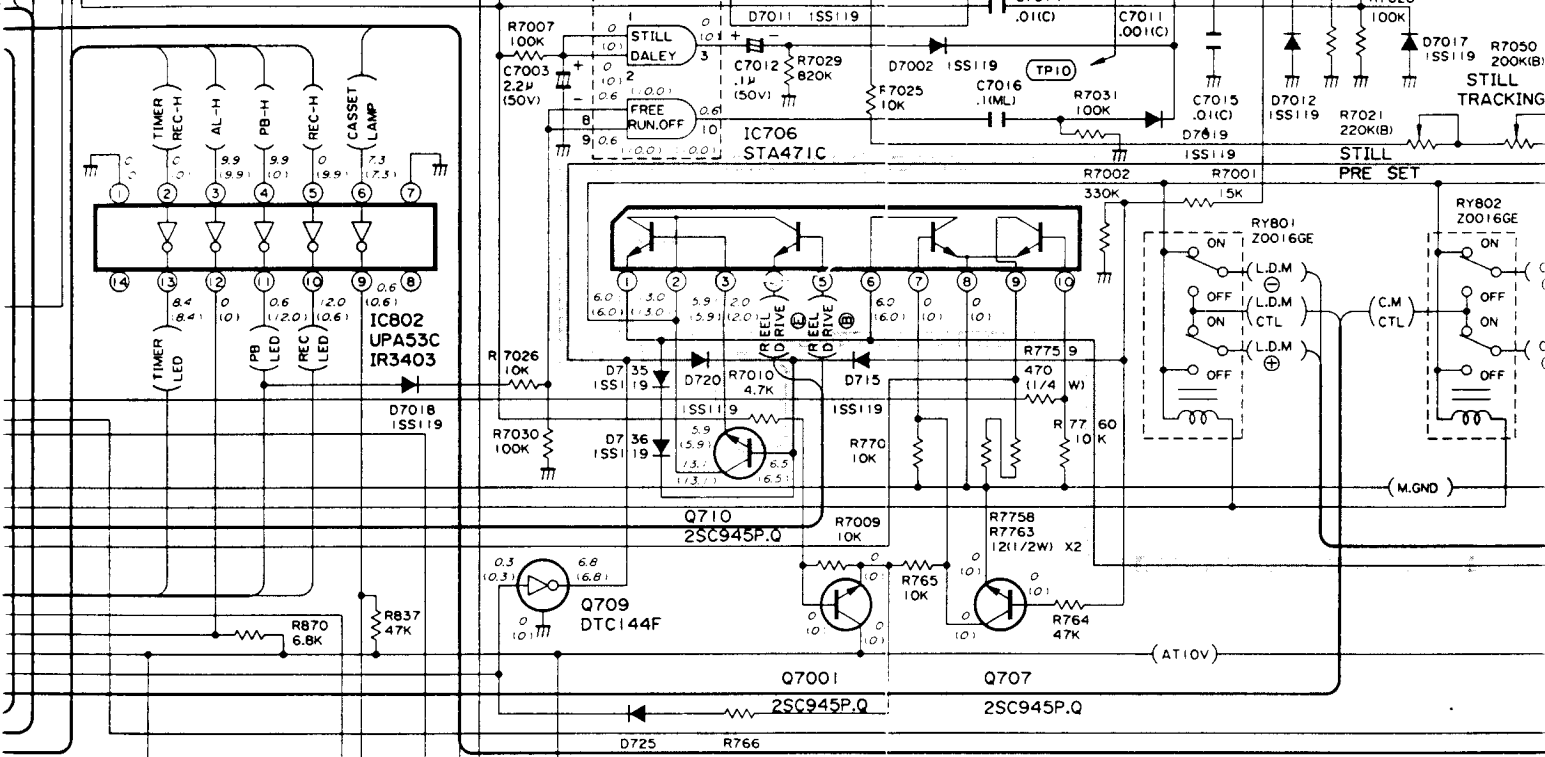
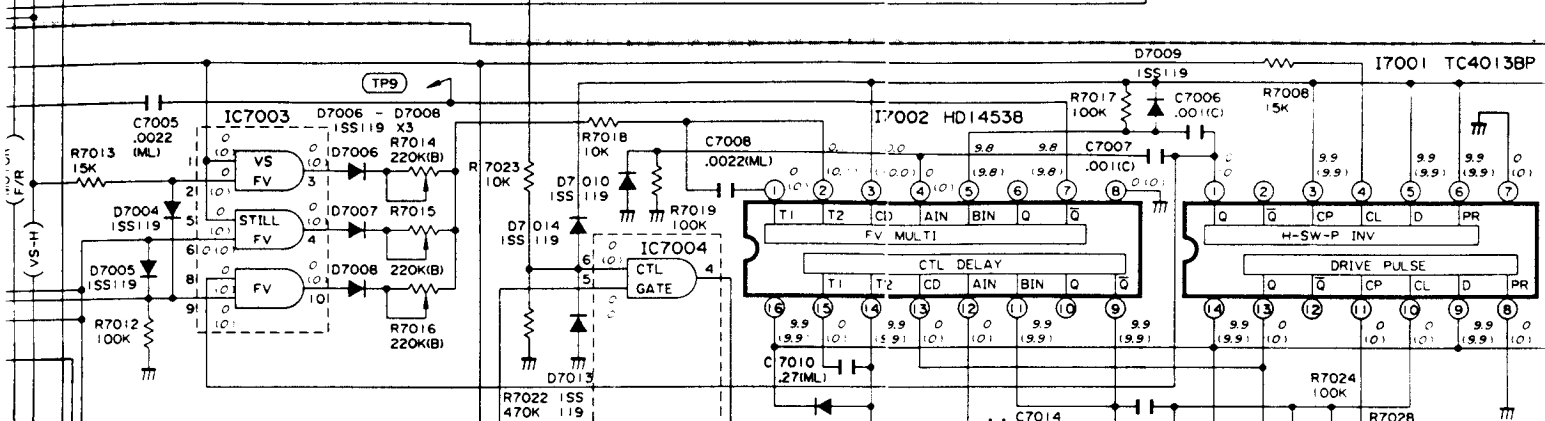
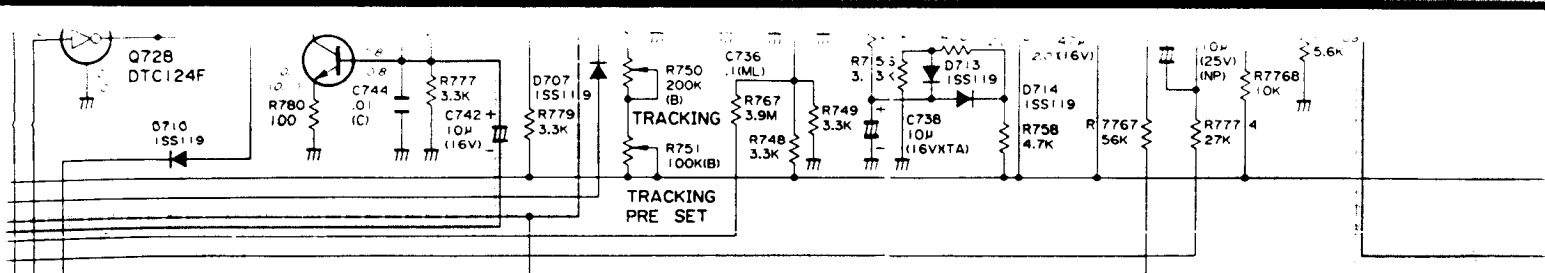


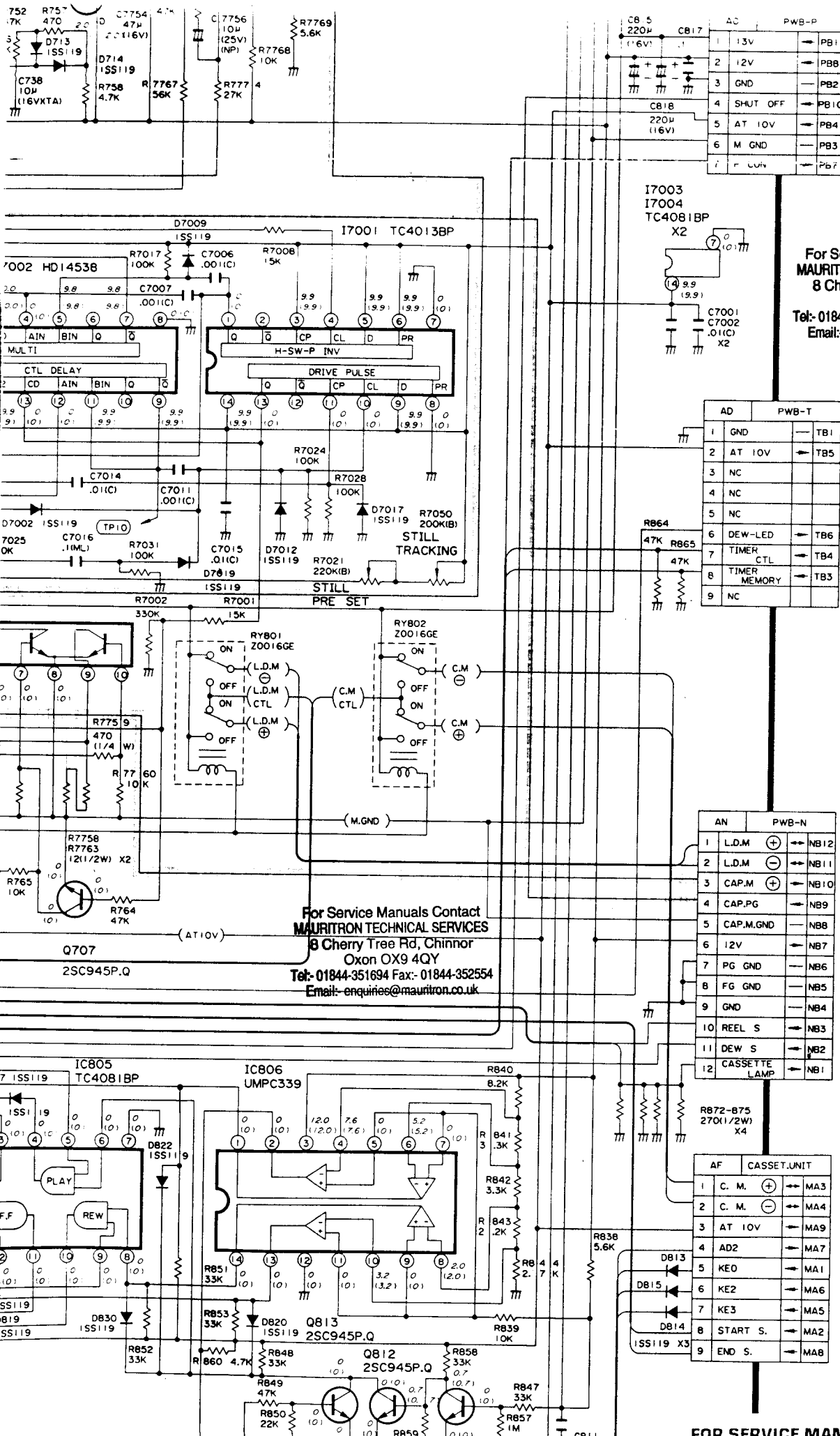
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32									
D4	D5	D6	D7	D8	D9	NC	NC	NC	D10	D11	D12	D13	D14	D15	D40	D41	D42	D43	D50	D51	D52	D53	V01	SP	NC	NC	RES	ET	VBB	VDD	OSC	NC	VSS							
CASSET-M	SUP	SUP	SUP	SUP	SUP	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M	REEL-M								
D3	D2	D1	D0	P63	P62	NC	NC	NC	P61	P60	R33	R32	R31	R30	R23	R22	R21	R20	R19	R18	R17	R16	R15	R14	R13	R12	R11	R10	R09	R08	R07	R06	R05	R04	R03	R02	R01	R00	P-CON	
64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33									

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AC		PWB-P	
1	13V	→	PB1
2	12V	→	PB8
3	GND	→	PB2
4	SHUT OFF	→	PB10
5	AT 10V	→	PB4
6	M GND	→	PB3
7	10V	→	Pb7

AD		PWB-T	
1	GND	→	TB1
2	AT 10V	→	TB5
3	NC		
4	NC		
5	NC		
6	DEW-LED	→	TB6
7	TIMER CTL	→	TB4
8	TIMER MEMORY	→	TB3
9	NC		

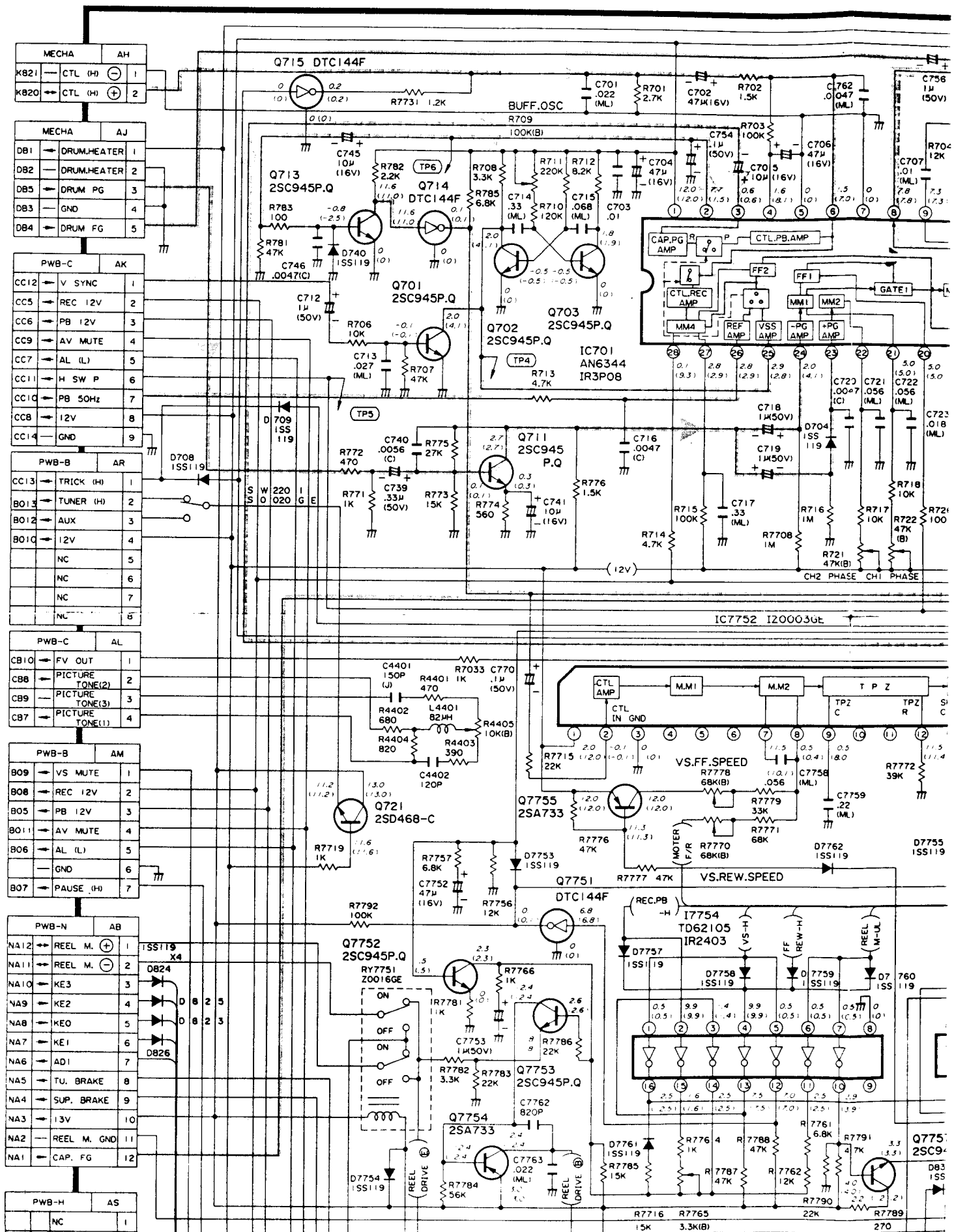
AN		PWB-N	
1	L.D.M (+)	↔	NB12
2	L.D.M (-)	↔	NB11
3	CAP.M (+)	↔	NB10
4	CAP.PG	↔	NB9
5	CAP.M.GND	↔	NB8
6	12V	↔	NB7
7	PG GND	↔	NB6
8	FG GND	↔	NB5
9	GND	↔	NB4
10	REEL S	↔	NB3
11	DEW S	↔	NB2
12	CASSETTE LAMP	↔	NB1

AF		CASSET UNIT	
1	C. M. (+)	↔	MA3
2	C. M. (-)	↔	MA4
3	AT 10V	↔	MA9
4	AD2	↔	MA7
5	KE2	↔	MA1
6	KE3	↔	MA6
7	KE3	↔	MA5
8	START S.	↔	MA2
9	END S.	↔	MA8

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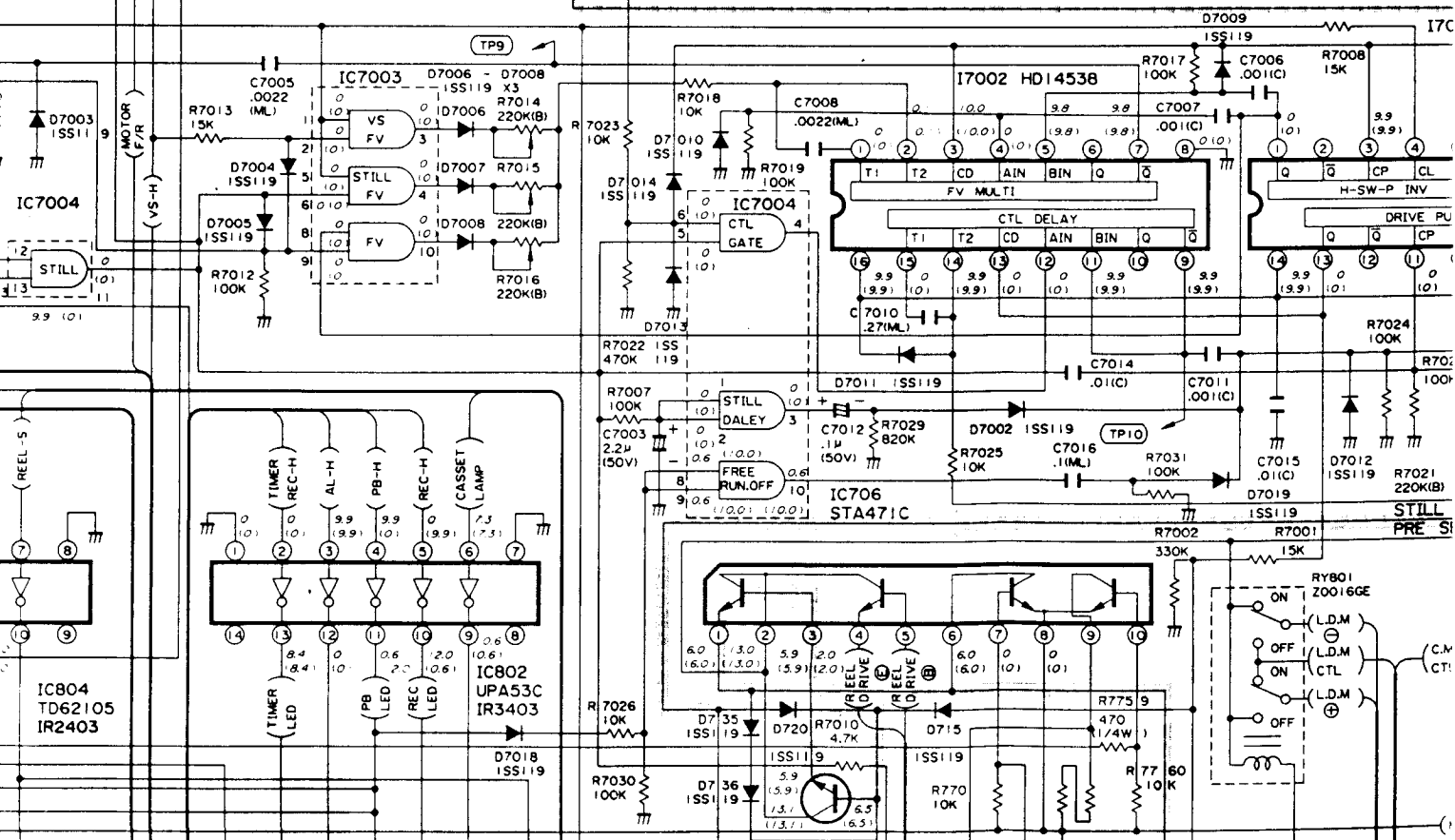
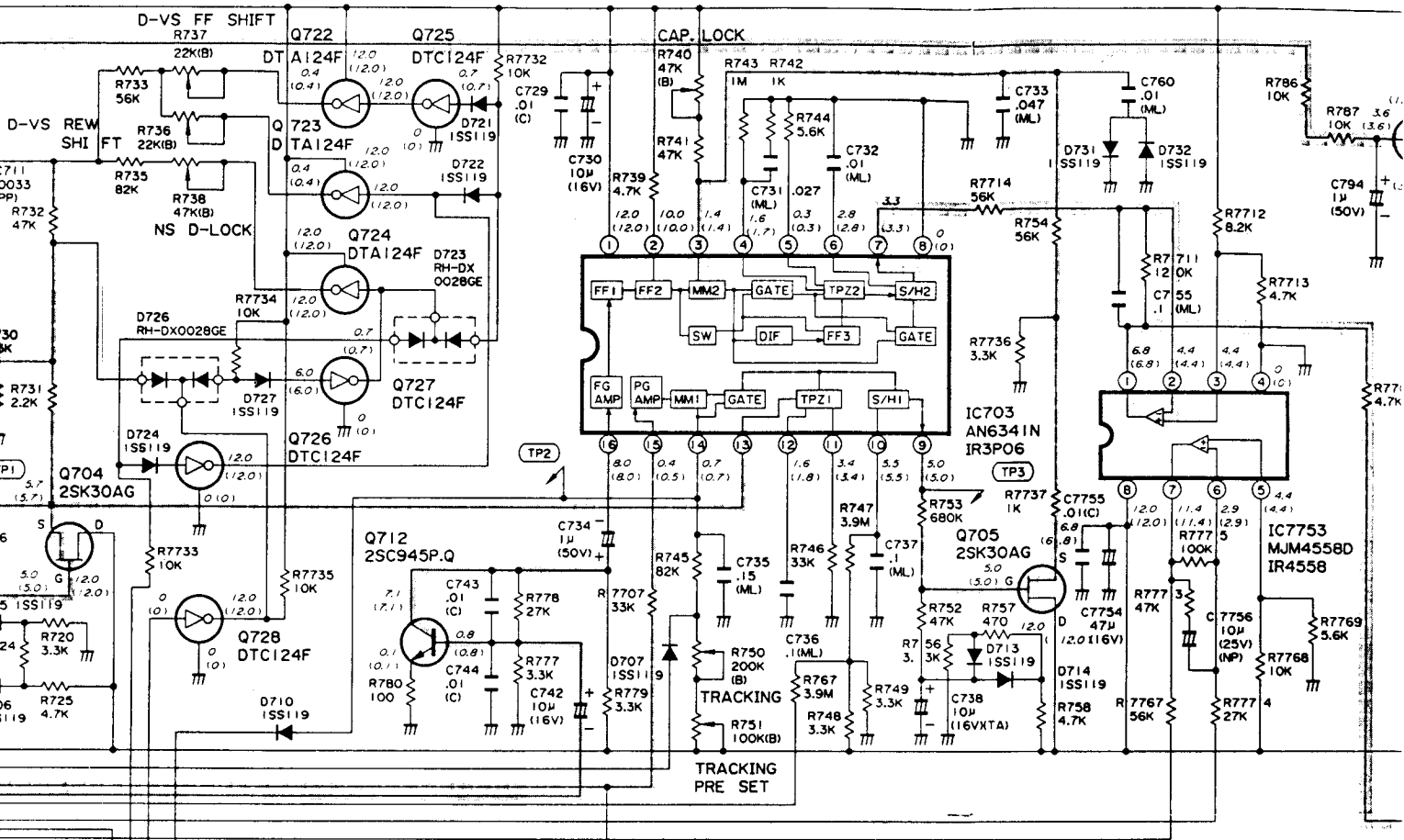
PWB-A, MECHANICAL CONTROL CIRCUIT SCHEMATIC DIAGRAM (VC-383H)



Capstan servo frequency control comparison signal

Capstan servo phase control comparison signal

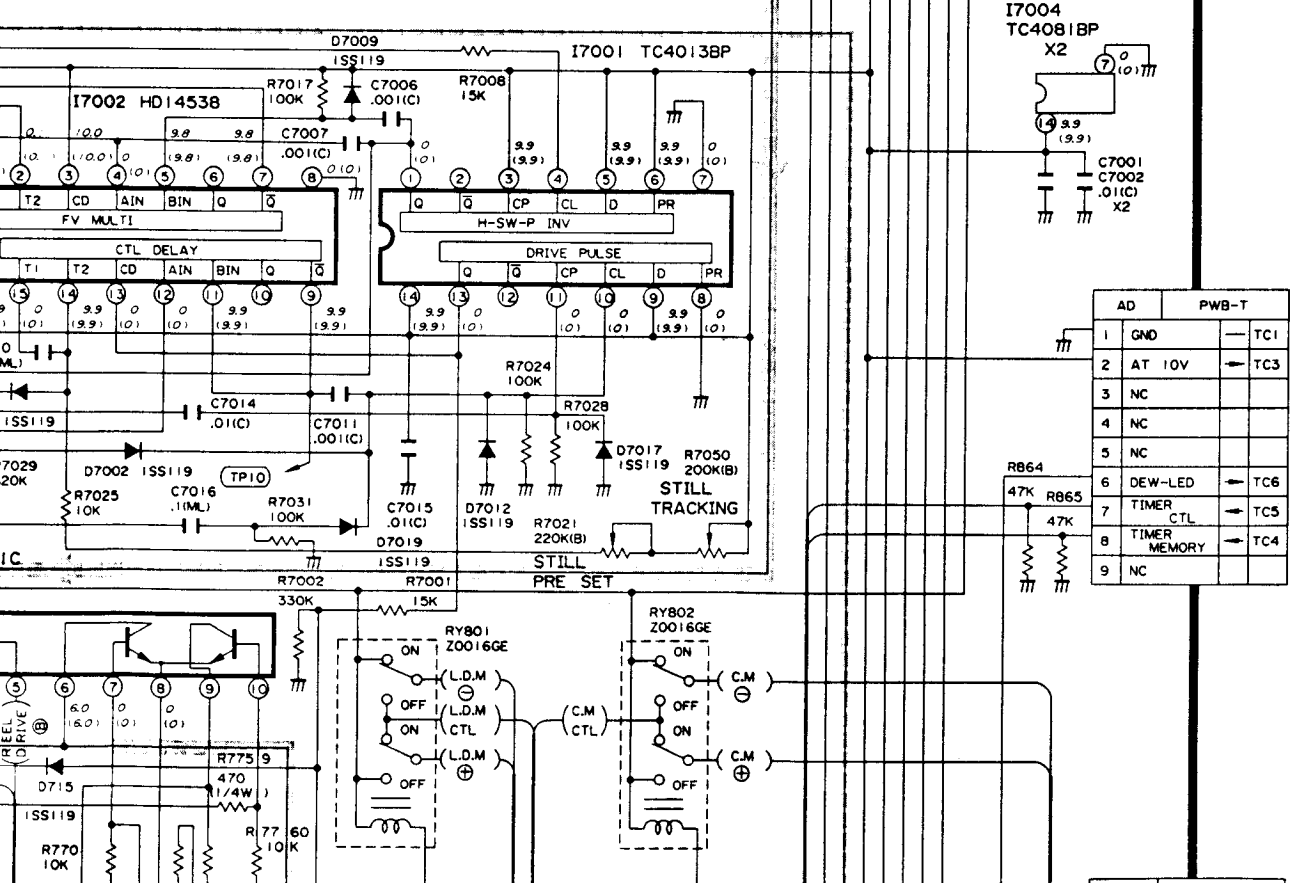
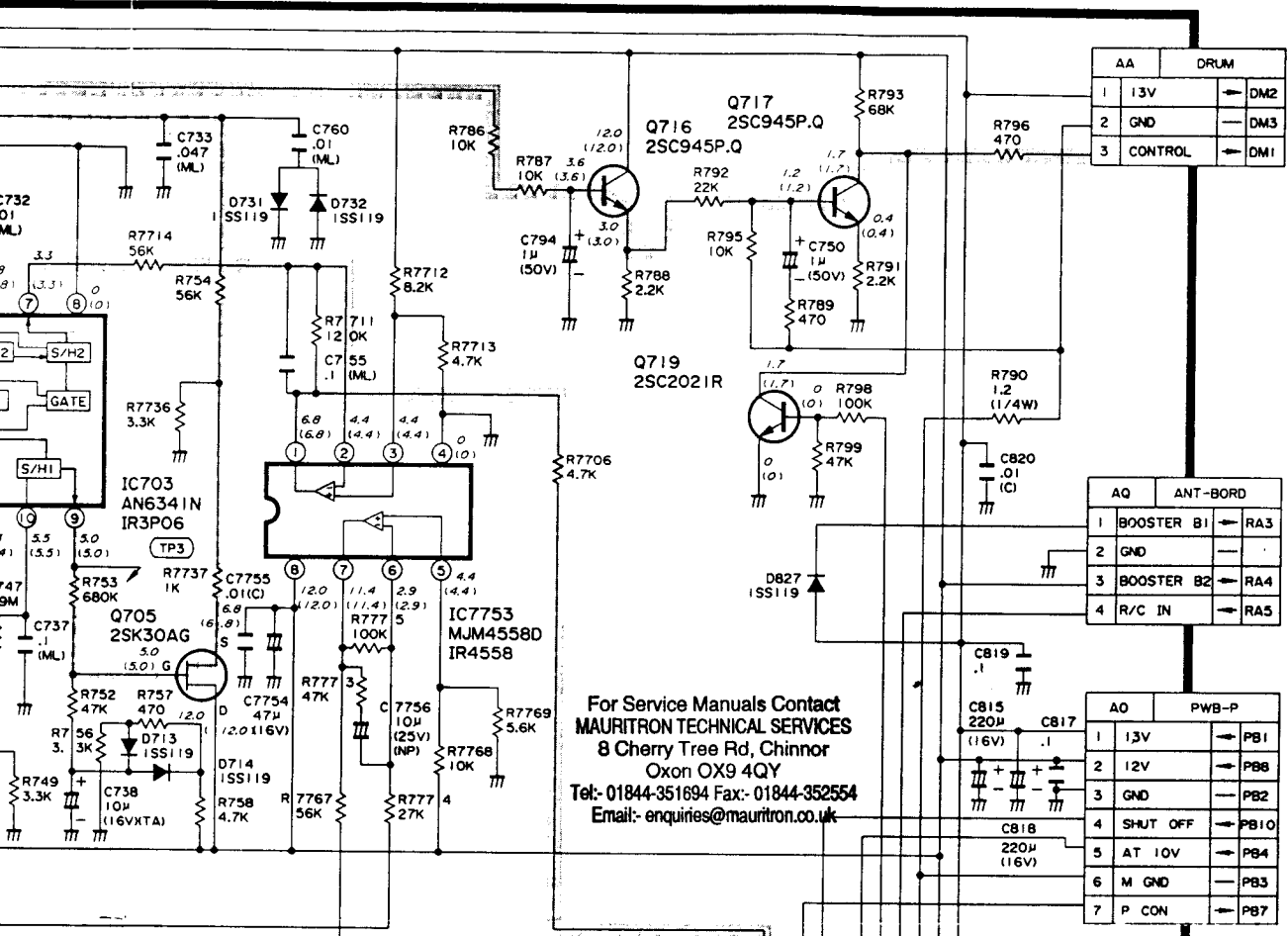
Capstan servo phase control reference signal



control comparison signal
comparison signal

Capstan servo phase control
reference signal

Drum servo frequency control comparison signal
Drum servo phase control comparison signal



AA	DRUM
1	13V → DM2
2	GND → DM3
3	CONTROL → DM1

AQ	ANT-BORD
1	BOOSTER B1 → RA3
2	GND
3	BOOSTER B2 → RA4
4	R/C IN → RA5

AO	PWB-P
1	13V → PB1
2	12V → PB8
3	GND → PB2
4	SHUT OFF → PB10
5	AT 10V → PB4
6	M GND → PB3
7	P CON → PB7

AD	PWB-T
1	GND → TC1
2	AT 10V → TC3
3	NC
4	NC
5	NC
6	DEW-LED → TC6
7	TIMER CTL → TC5
8	TIMER MEMORY → TC4
9	NC

AN	PWB-N
1	L.D.M → MB1
2	L.D.M → MB2
3	L.D.M → MB3

A
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C
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BO13	TUNER (H)	2
BO12	AUX	3
BO10	12V	4
	NC	5
	NC	6
	NC	7
	NC	8

PWB-C		AL
CB10	FV OUT	1
CB8	PICTURE TONE(2)	2
CB9	PICTURE TONE(3)	3
CB7	PICTURE TONE(1)	4

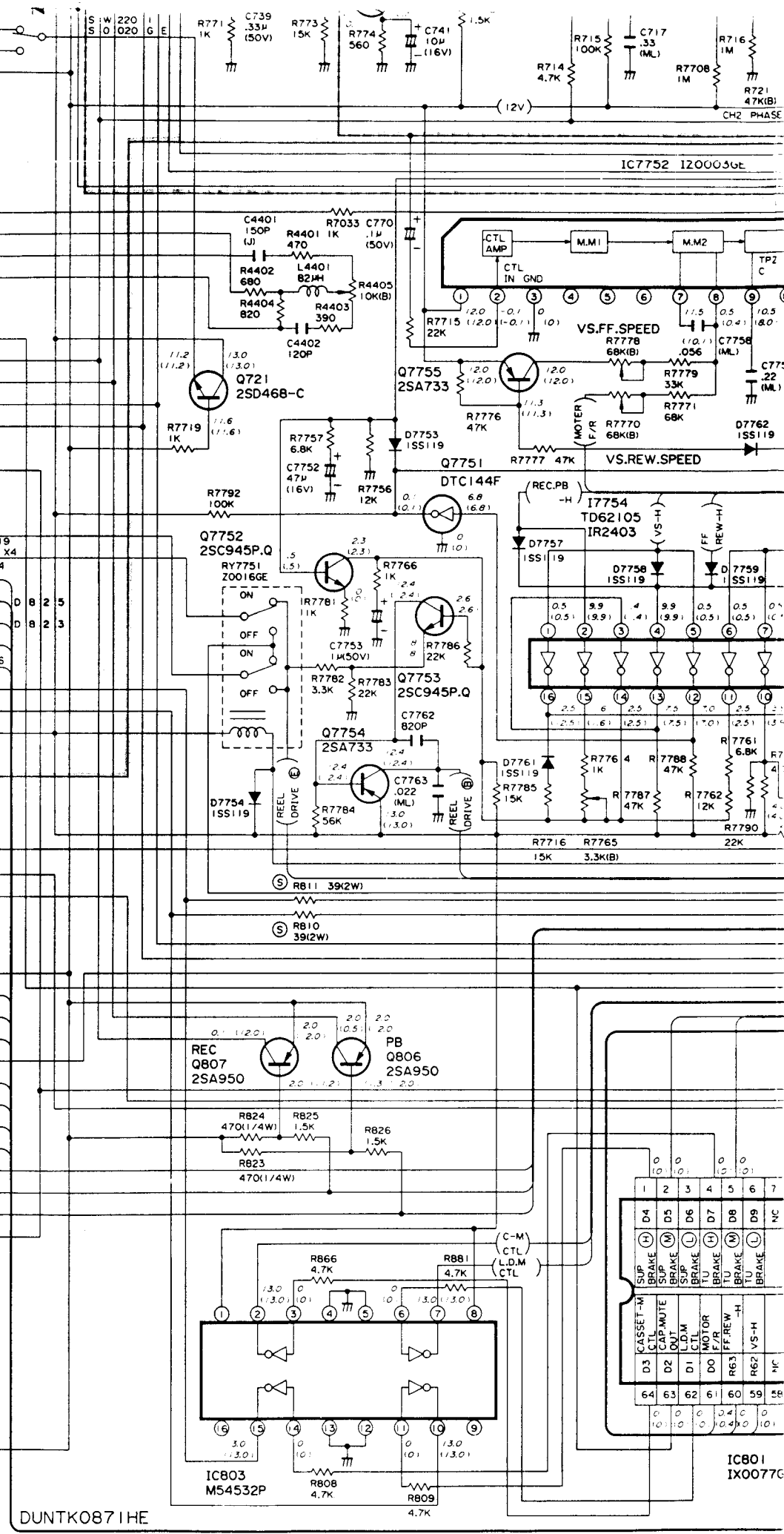
PWB-B		AM
BO9	VS MUTE	1
BO8	REC 12V	2
BO5	PB 12V	3
BO11	AV MUTE	4
BO6	AL (L)	5
	GND	6
BO7	PAUSE (H)	7

PWB-N		AB
NA12	REEL M. (+)	1
NA11	REEL M. (-)	2
NA10	KE3	3
NA9	KE2	4
NA8	KE0	5
NA7	KE1	6
NA6	AD1	7
NA5	TU. BRAKE	8
NA4	SUP. BRAKE	9
NA3	13V	10
NA2	REEL M. GND	11
NA1	CAP. FG	12

PWB-H		AS
	NC	1
HB2	FF LED	2
HB3	REW LED	3

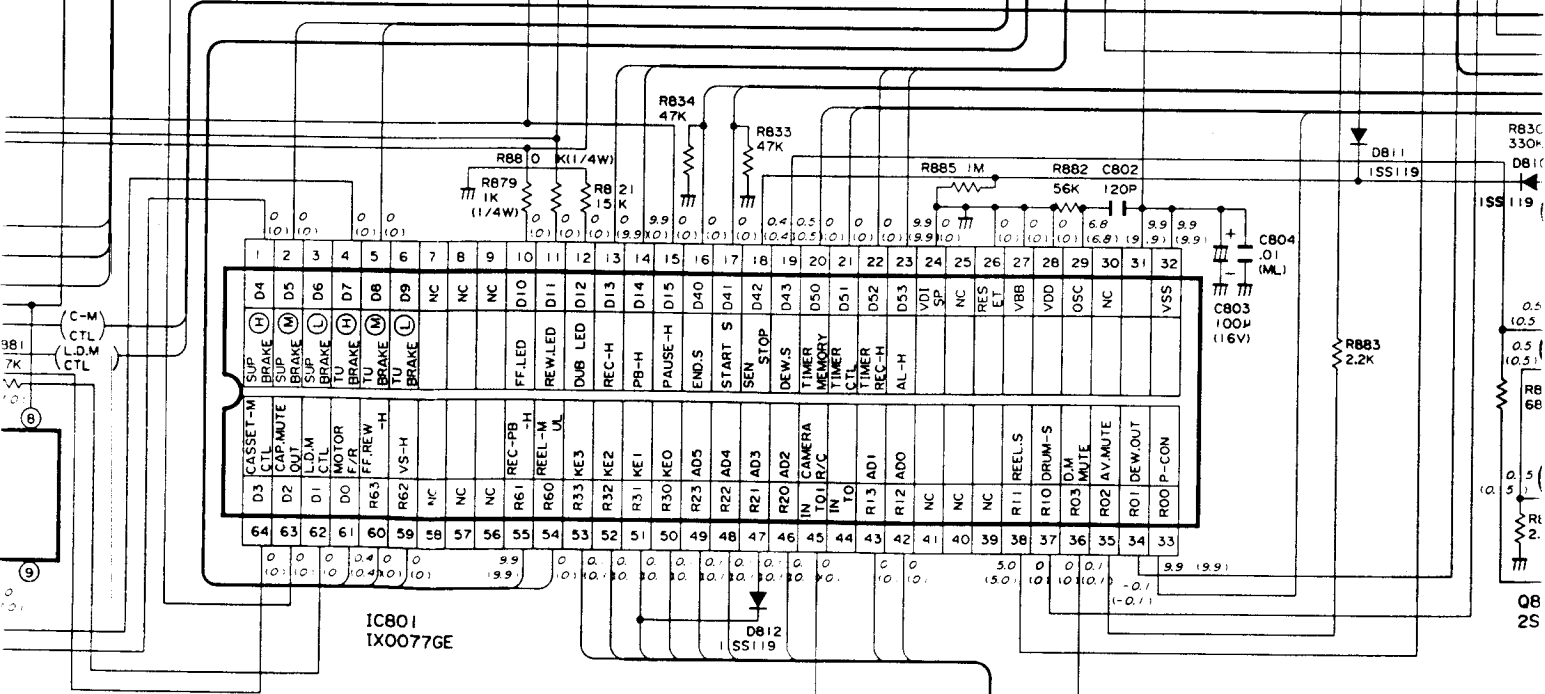
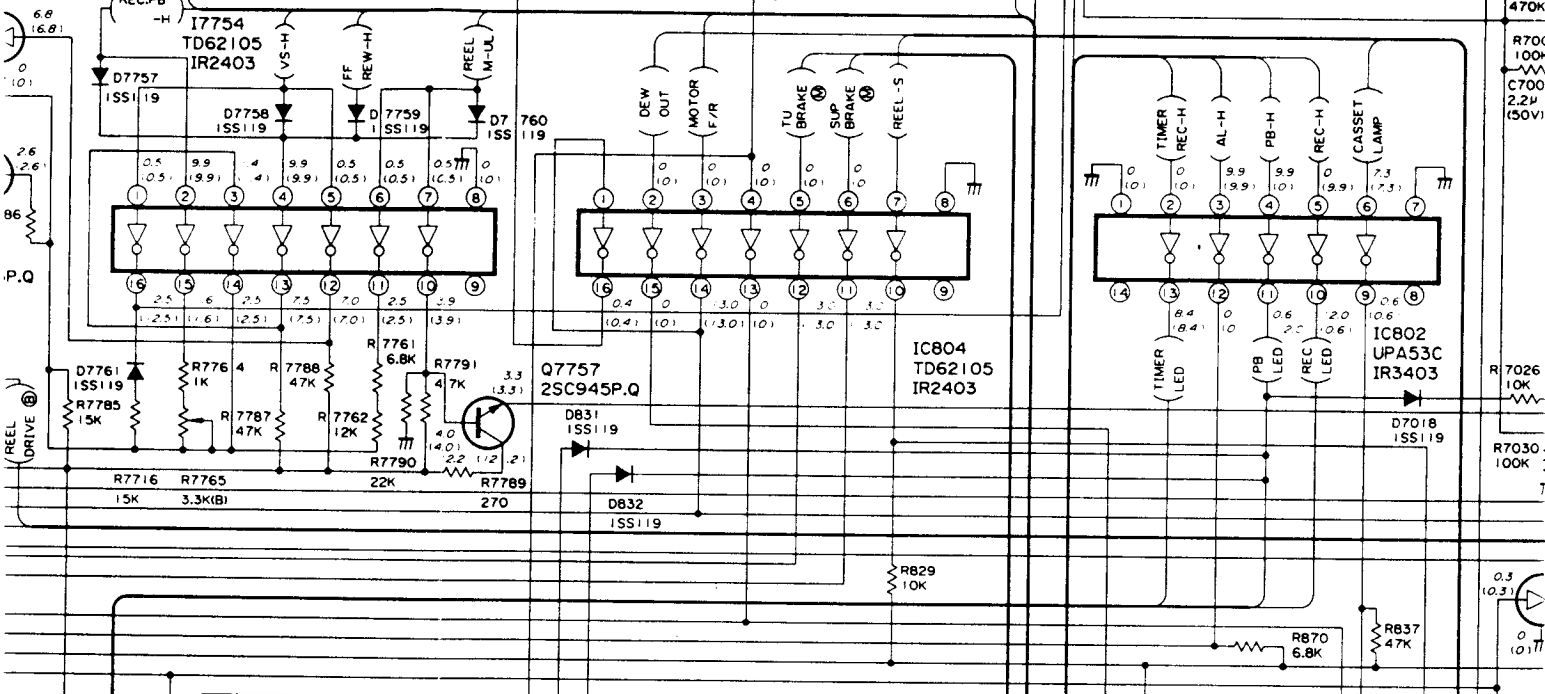
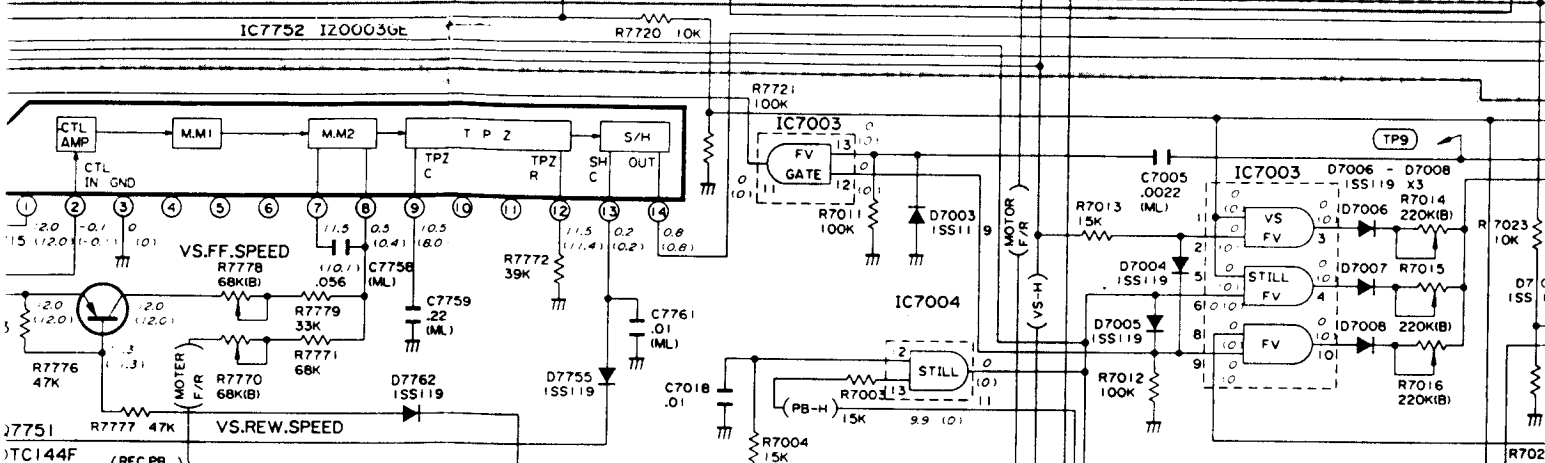
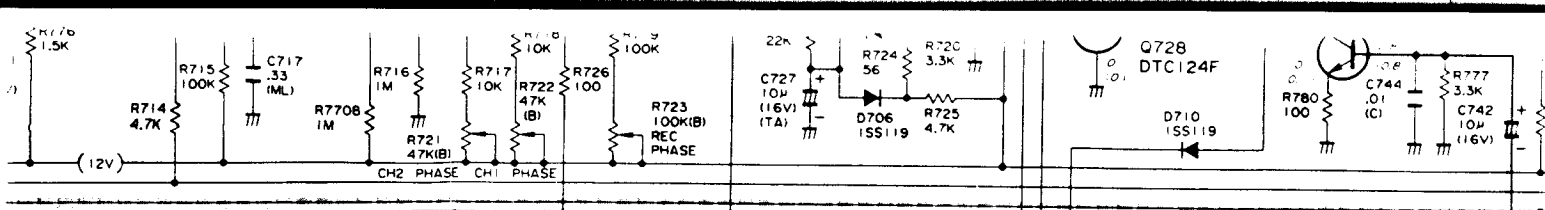
PWB-H		AG
HA14	GND	1
HA13	12V	2
HA12	AD4	3
HA11	KE2	4
HA10	KE3	5
HA9	AT 10V	6
HA8	AD0	7
HA7	AD5	8
HA6	KE0	9
HA5	KE1	10
HA4	TIMER LED	11
HA3	REC LED	12
HA2	PB LED	13
HA1	PAUSE LED	14

TEST-POINT		AT
TP1	D. LOCK	1
TP2	TRACKING PRE SET	2
TP3	CAP. LOCK	3
TP4	BUFF. OSC.	4
TP5	H SW P	5
TP6	CTL PULSE	6
TP7	12V	7
TP8	GND	8
TP9	FV	9
TP10	CTL DELAY PULSE	10

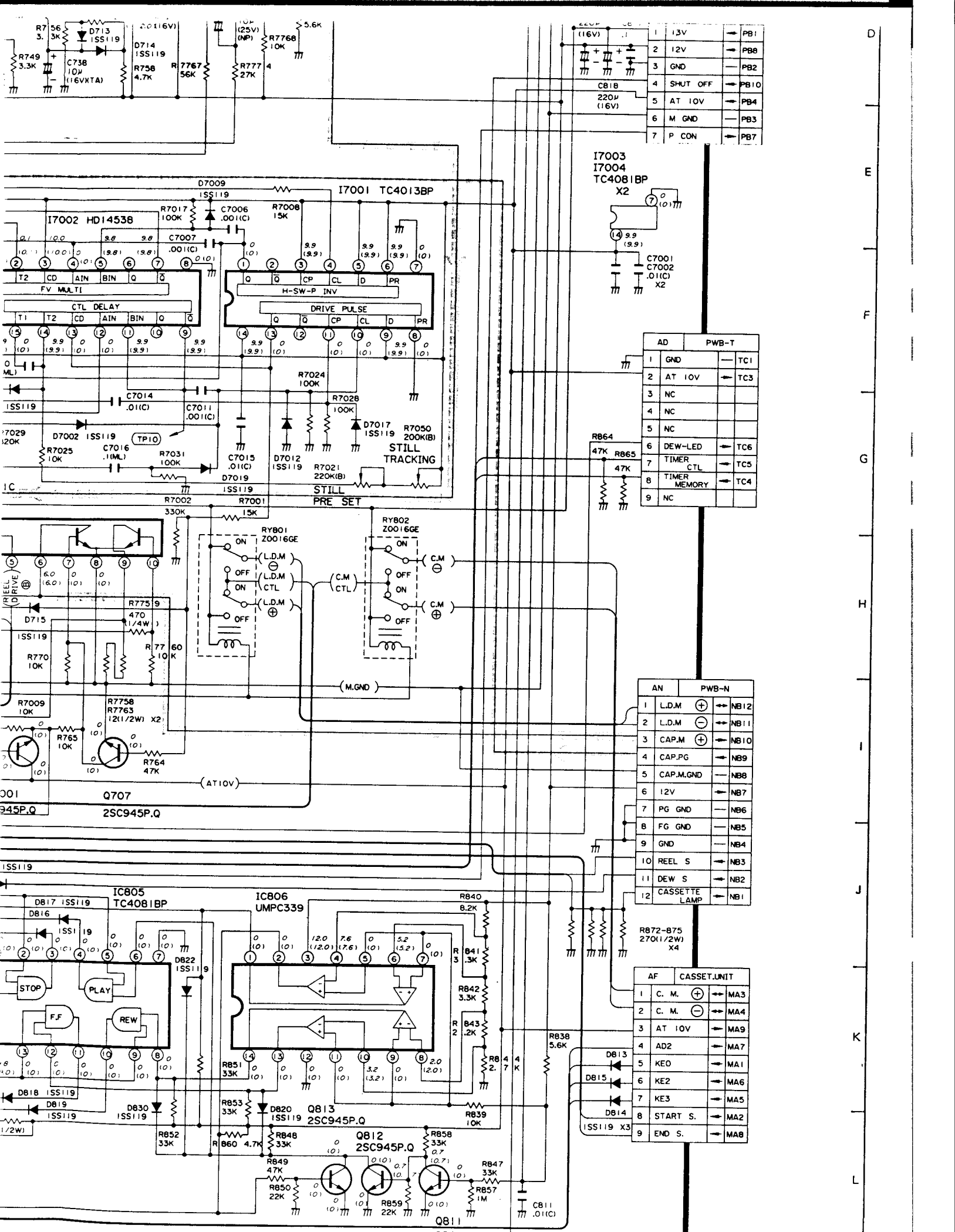


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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
D4	D5	D6	D7	D8	D9	NC	NC	NC	D10	D11	D12	D13	D14	D15	D40	D41	D42	D43	D50	D51	D52	D53	V01	NC	RES	VBB	VDD	OSC	NC	VSS		
SUP	BRAKE	SUP	BRAKE	SUP	BRAKE	NC	NC	NC	FF LED	REW LED	DUB LED	REC-H	PB-H	PAUSE-H	END-S	START S	SEN	STOP	DEW-S	TIMER	MEMORY	TO I/R/C	TO	TO	TO	TO	TO	TO	TO	TO		
CASSET-M	CAP MUTE	L.D.M	CTL	MOTOR	FF REW	VS-H	REC-PB	REEL-M	REEL-U	KE3	KE2	KE1	KE0	AD5	AD4	AD3	AD2	CAMERA	IN	TO I/R/C	TO	TO	TO	TO	TO	TO	TO	TO	TO			
D3	D2	D1	D0	R63	R62	NC	NC	NC	R61	R60	R33	R32	R31	R30	R23	R22	R21	R20	R19	R18	R17	R16	R15	R14	R13	R12	R11	R10	R03	R02	R01	R00
64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	



	1	2	3	4	5	6	7
	13V	12V	GND	SHUT OFF	AT 10V	M GND	P CON

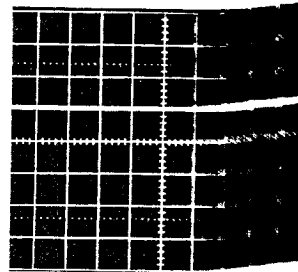
AD	PWB-T	
1	GND	TC1
2	AT 10V	TC3
3	NC	
4	NC	
5	NC	
6	DEW-LED	TC6
7	TIMER CTL	TC5
8	TIMER MEMORY	TC4
9	NC	

AN	PWB-N	
1	L.D.M (+)	NB12
2	L.D.M (-)	NB11
3	CAP.M (+)	NB10
4	CAP.PG	NB9
5	CAP.M.GND	NB8
6	12V	NB7
7	PG GND	NB6
8	FG GND	NB5
9	GND	NB4
10	REEL S	NB3
11	DEW S	NB2
12	CASSETTE LAMP	NB1

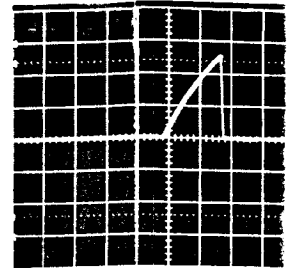
AF	CASSET UNIT	
1	C. M. (+)	MA3
2	C. M. (-)	MA4
3	AT 10V	MA9
4	AD2	MA7
5	KE0	MA1
6	KE2	MA6
7	KE3	MA5
8	START S.	MA2
9	END S.	MA8

PWB-A, MECHANICAL CONTROL CIRCUIT WIRING SIDE PWB (VC-381H,W/383S)

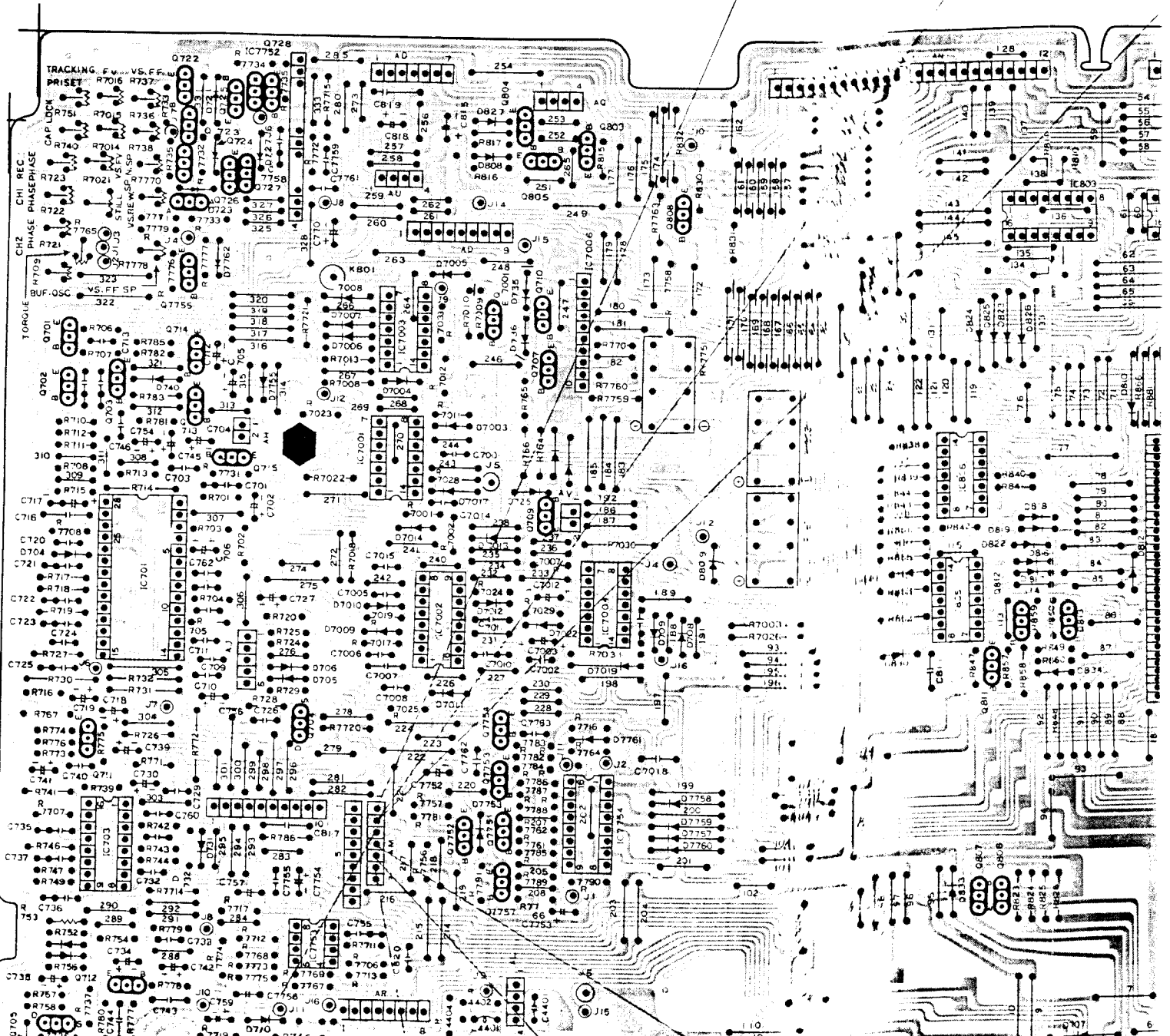
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MAURITRON TECHNICAL SERVICES
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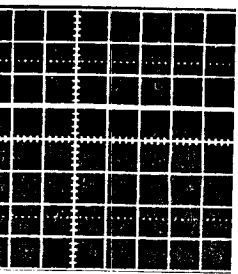


TP1 (REC)
1V/DiV., 10ms/DiV

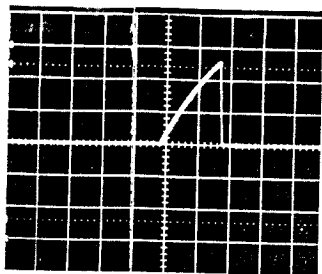


TP2 (REC)
2V/DiV., 5ms/DiV

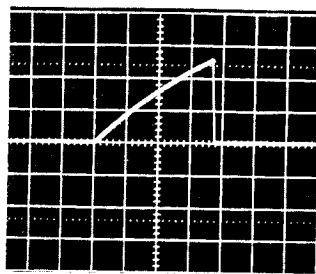




0ms/Div

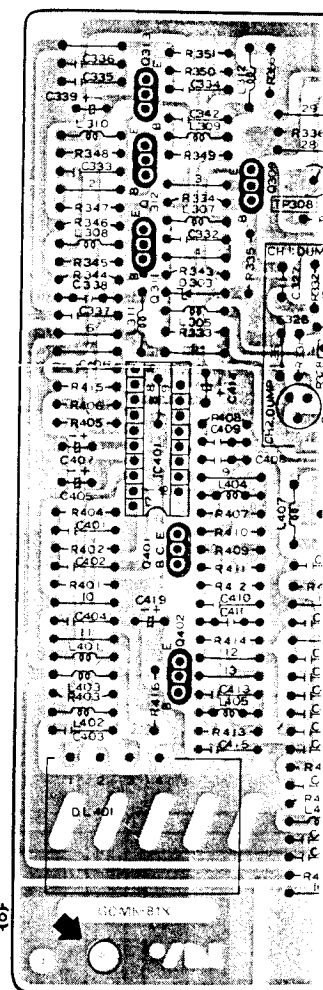
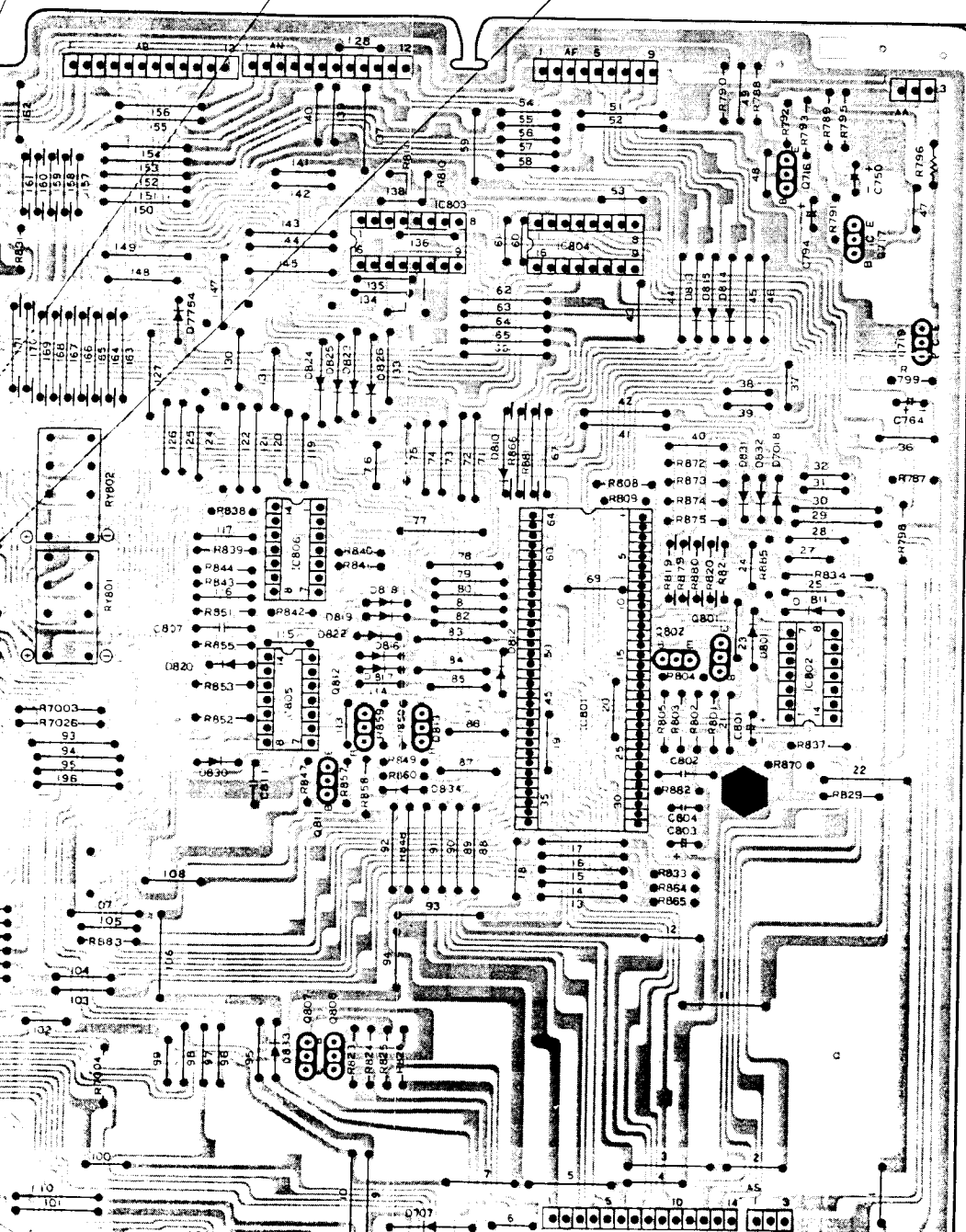


TP2 (REC)
2V/Div., 5ms/Div

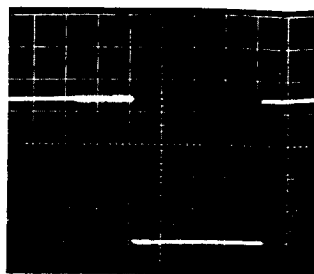


TP (PB)
2V/Div., 5ms/Div

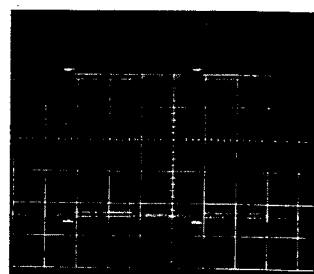
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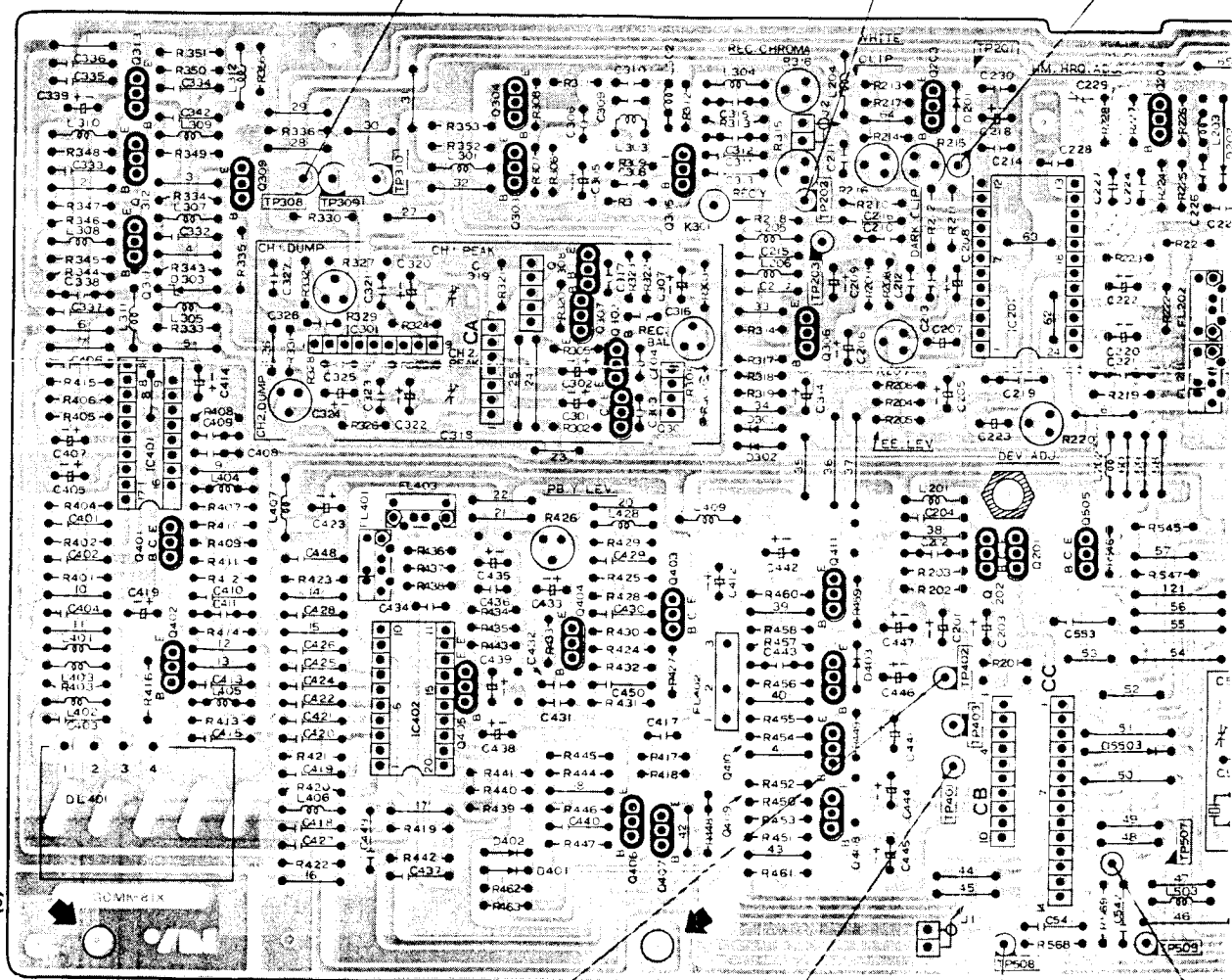
PWB-C, VIDEO, CHROMA HEAD AMP. CIRCUIT WIRING S



TP308
2V/Div., 5ms/Div

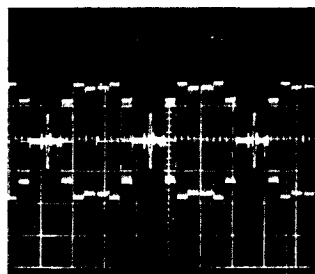
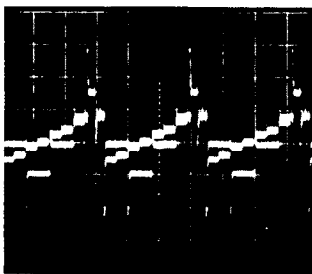
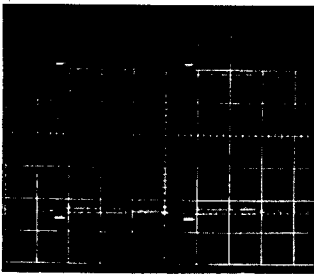


TP202 (REC)
0.2V/Div., 5ms/Div



CHROMA HEAD AMP. CIRCUIT WIRING SIDE PWB (VC-381H,W/383H)

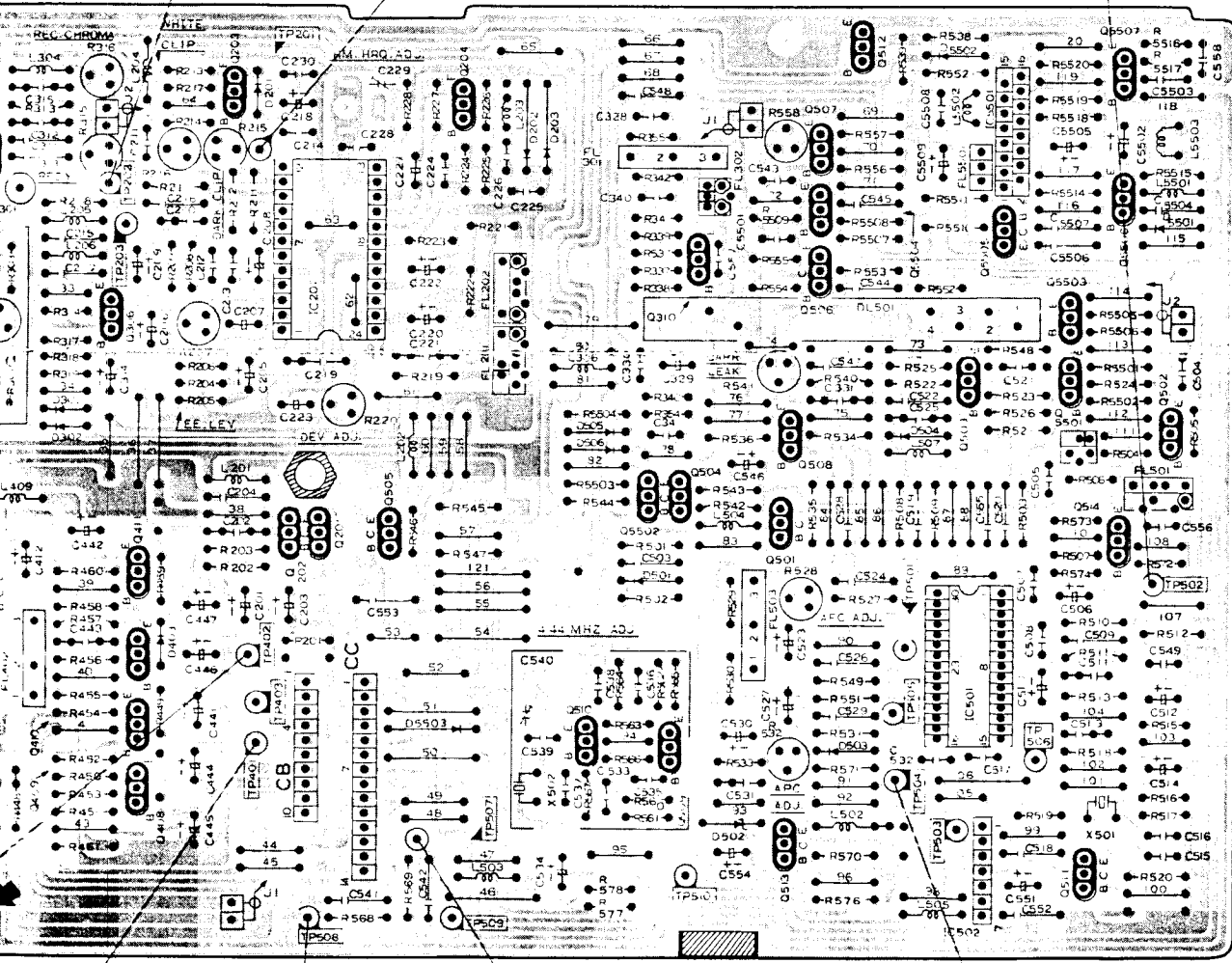
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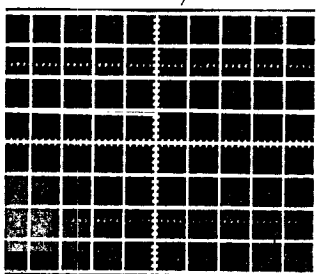
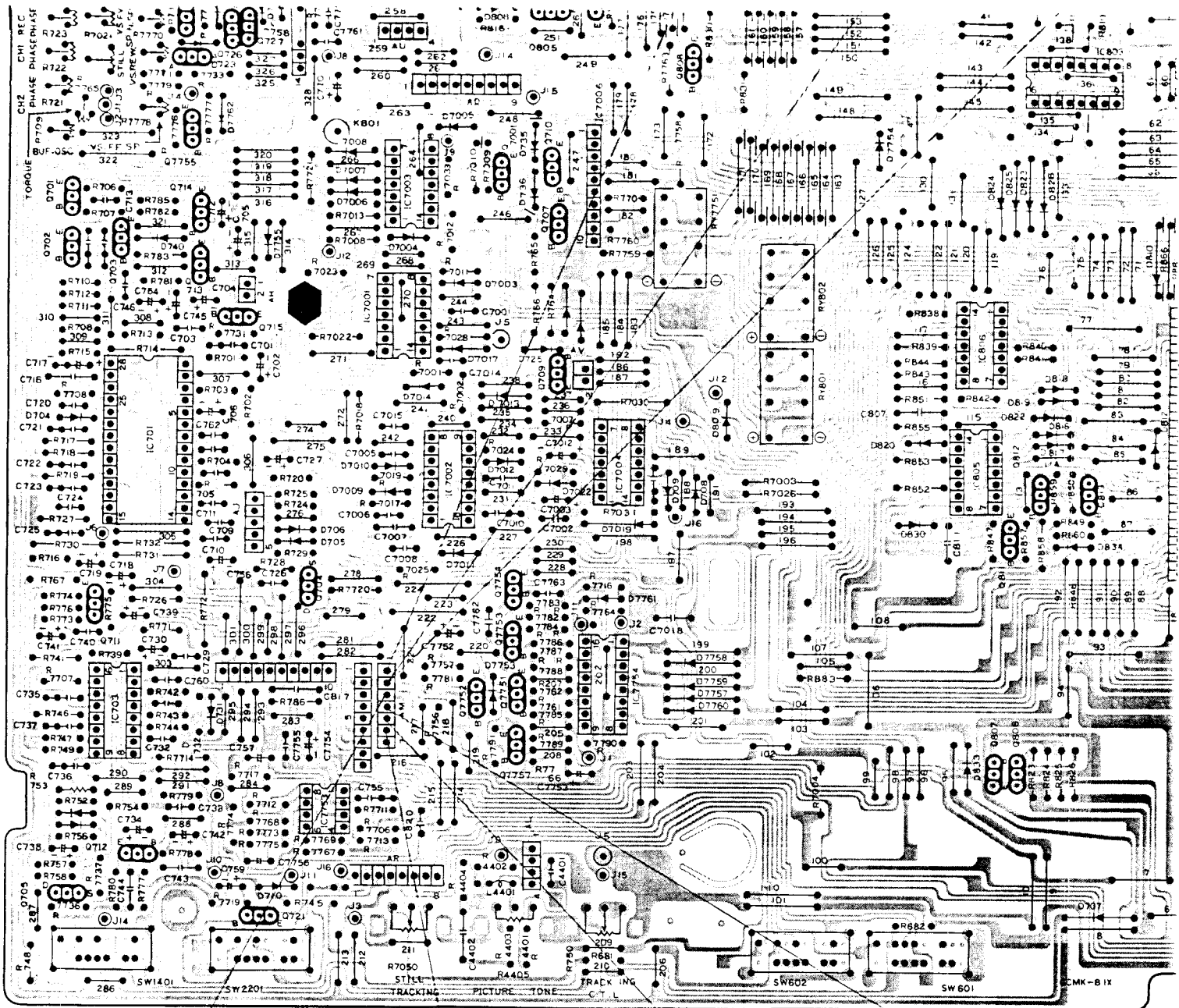
TP202 (REC)
0.2V/DIV., 5ms/DIV

TP201 (REC)
0.2V/DIV., 20ms/DIV

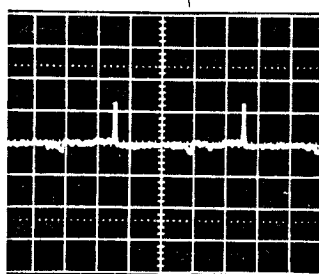
TP502 (REC)
0.1V/DIV., 20ms/DIV



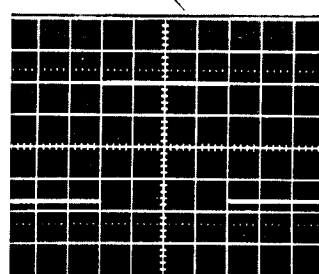
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Email: enquiries@mauritron.co.uk



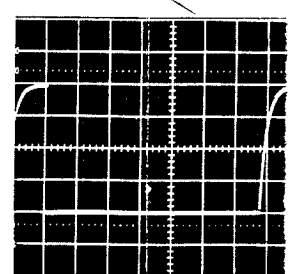
TP3
1V/DiV., 5ms/DiV



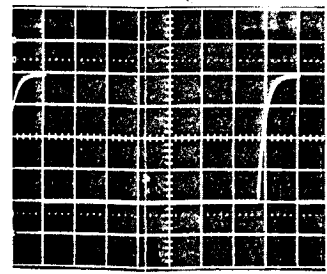
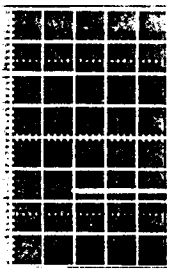
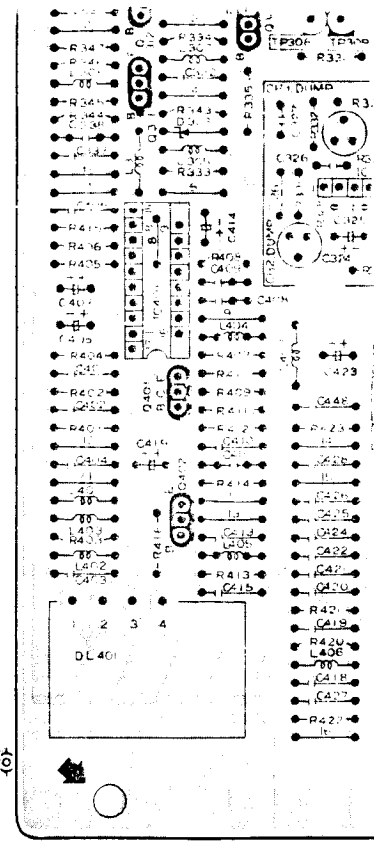
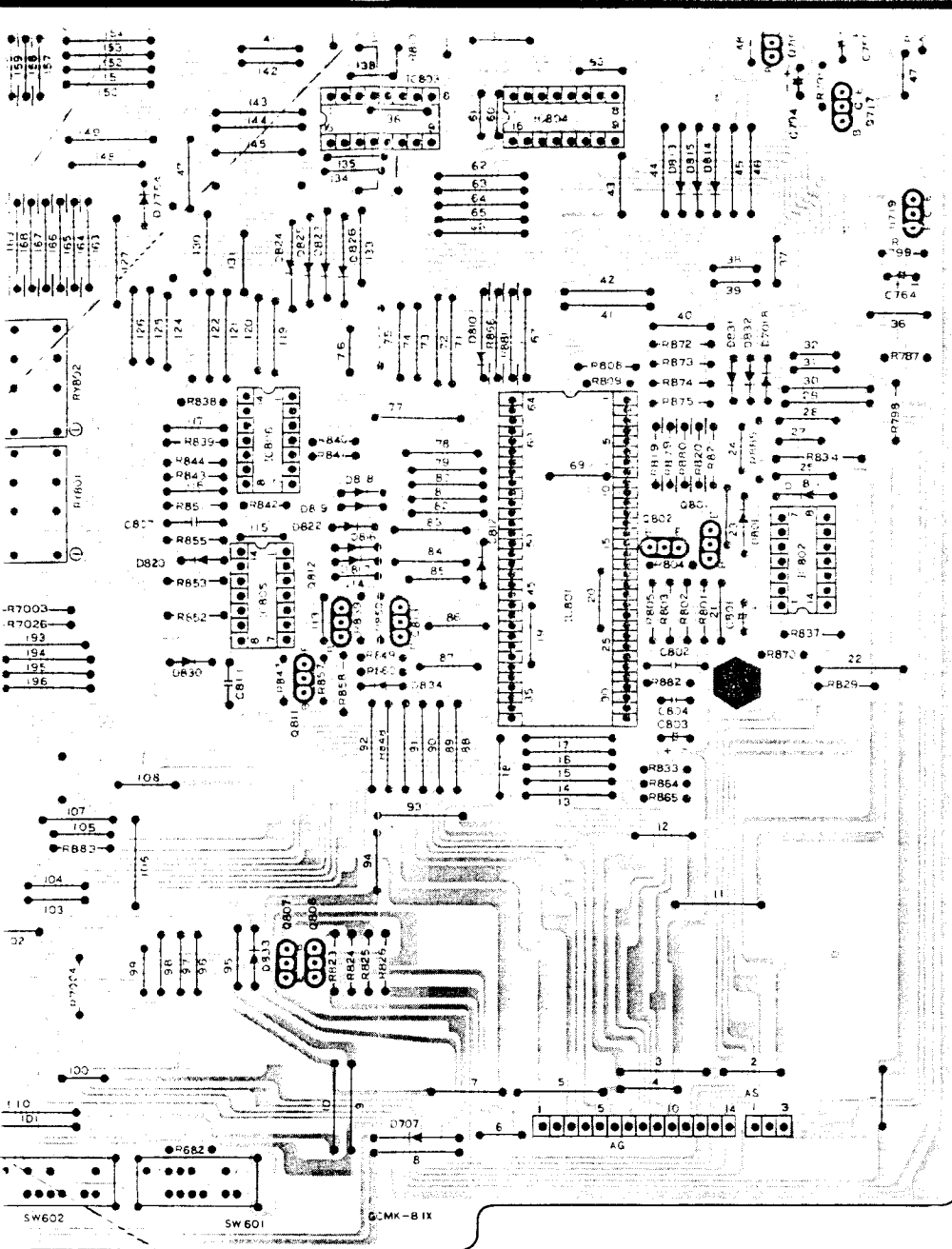
TP6 (PB)
1V/DiV., 10ms/DiV



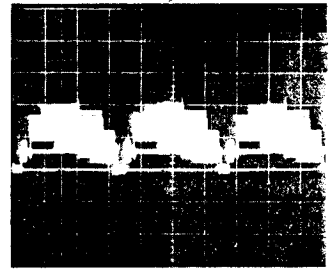
TP5 (PB)
2V/DiV., 5ms/DiV



TP4 (REC)
2V/DiV., 5ms/DiV

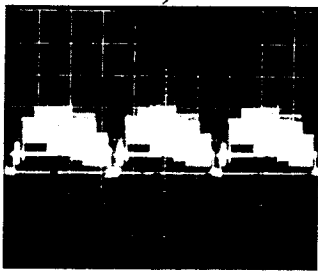
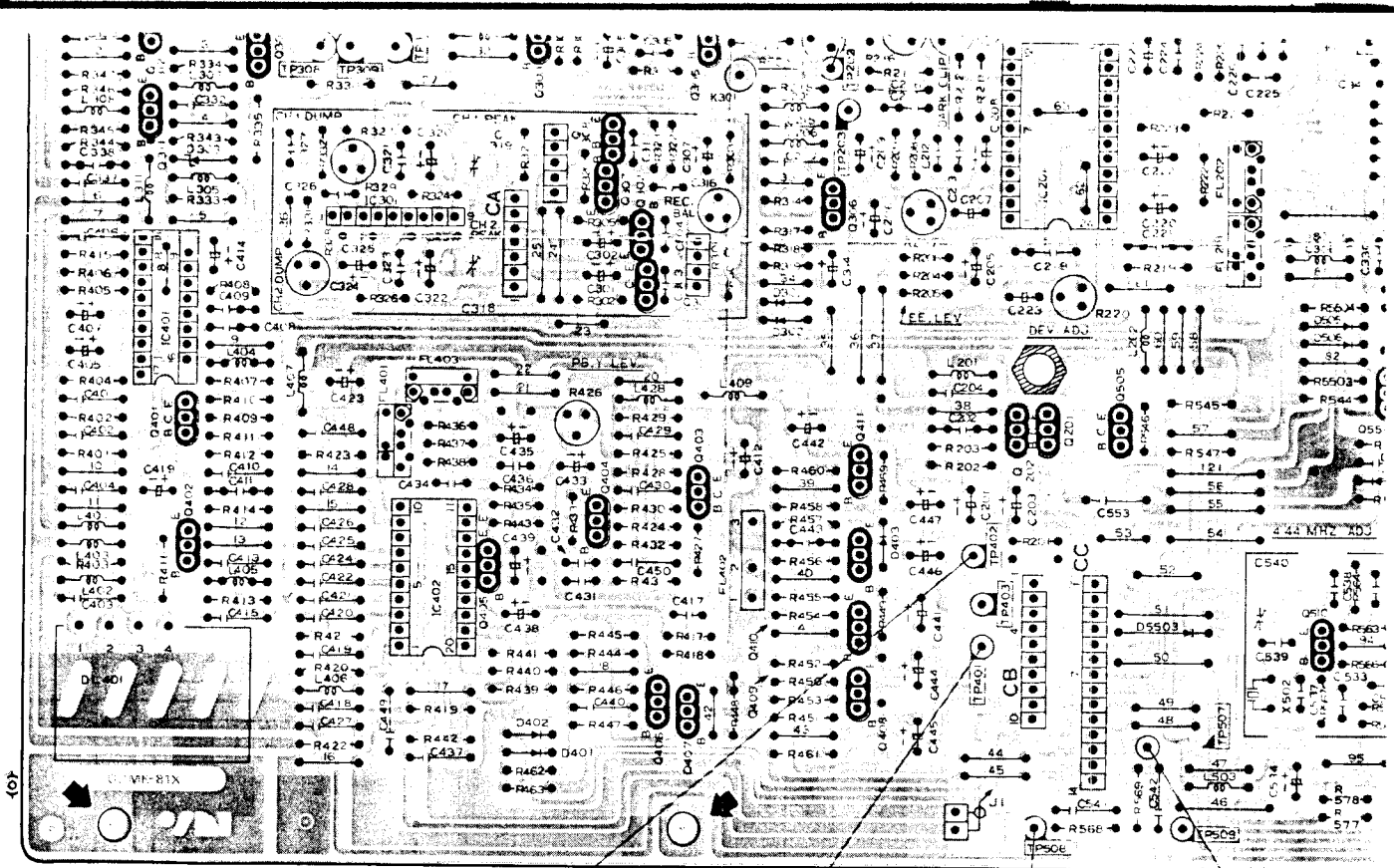


TP4 (REC)
2V/DIV., 5ms/DIV

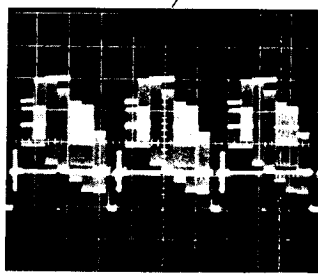


TP402 (REC)
0.5V/DIV., 20μs/DIV

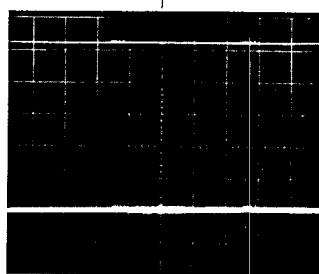
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 Email: enquiries@mauritron.co.uk



TP402 (REC)
0.5V/DIV., 20μs/DIV



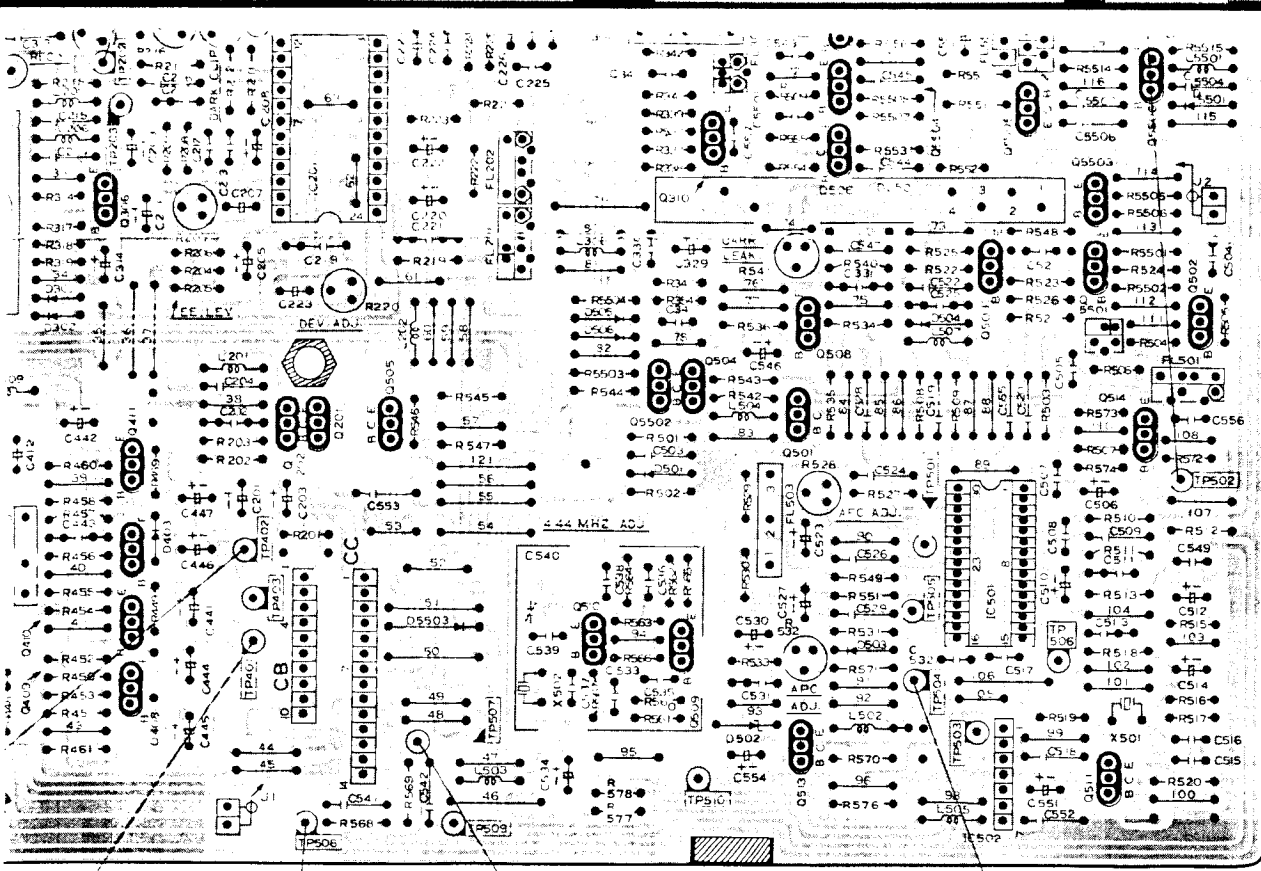
TP401 (REC)
0.5V/DIV., 20μs/DIV



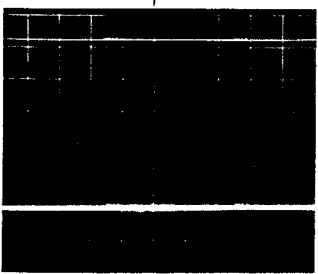
TP508
2V/DIV., 5ms/DIV



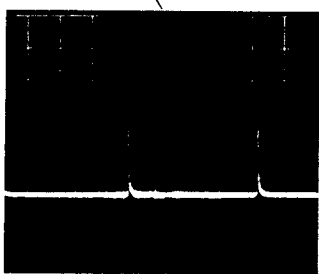
TP507
2V/DIV., 5ms/DIV



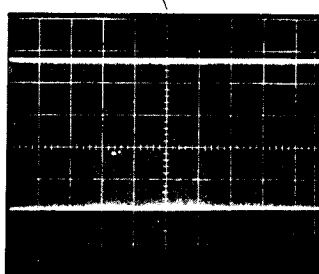
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TP508
 2V/DIV., 5ms/DIV



TP507
 2V/DIV., 5ms/DIV

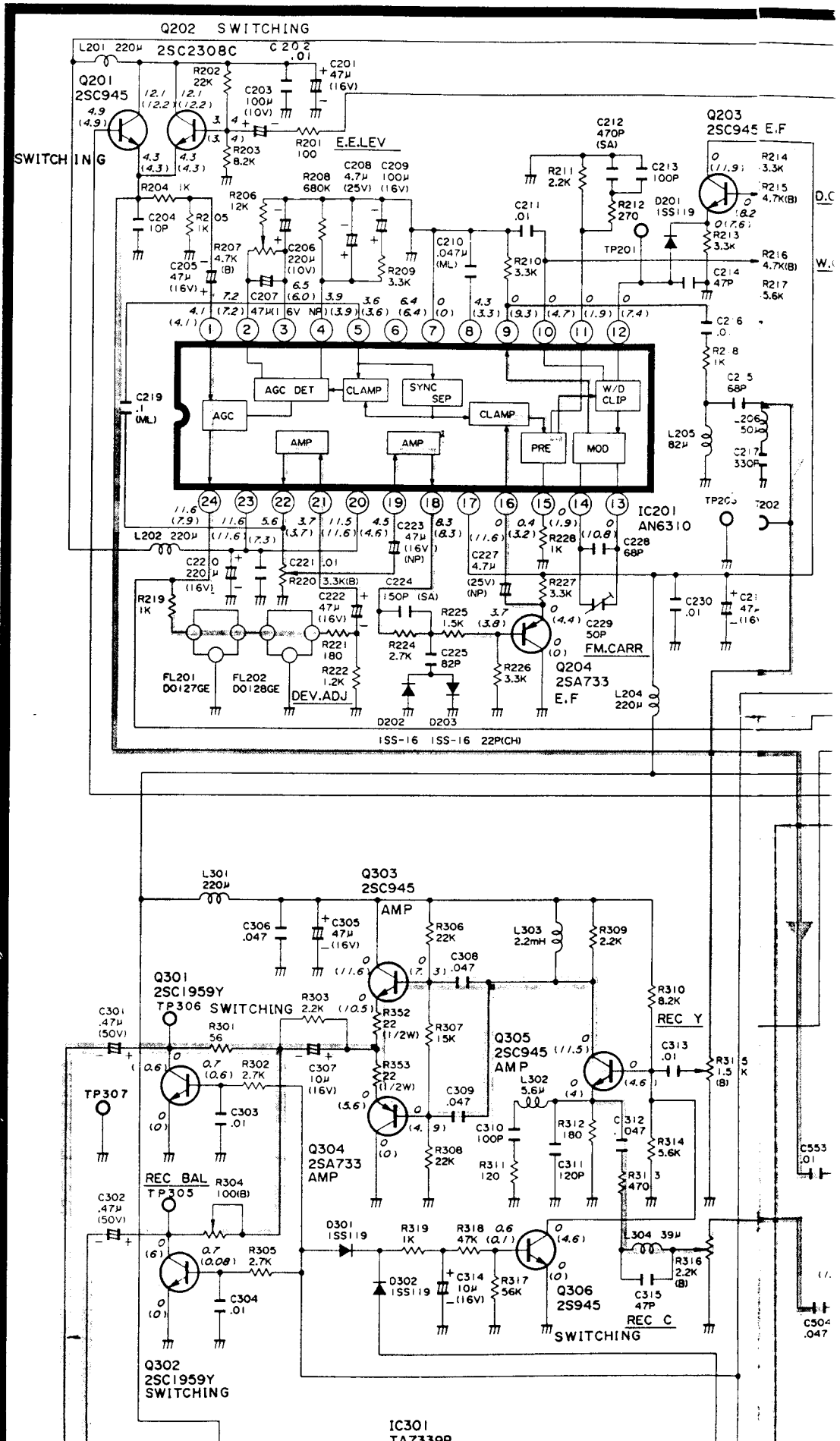


TP504 (REC)
 0.2V/DIV., 5ms/DIV

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PWB-C, VIDEO, CHROMA HEAD AMP. CIRCUIT SCHEMATIC DIAGRAM (VC-381H,W/383H)

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D.C.

W.I.

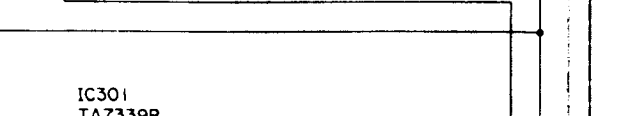
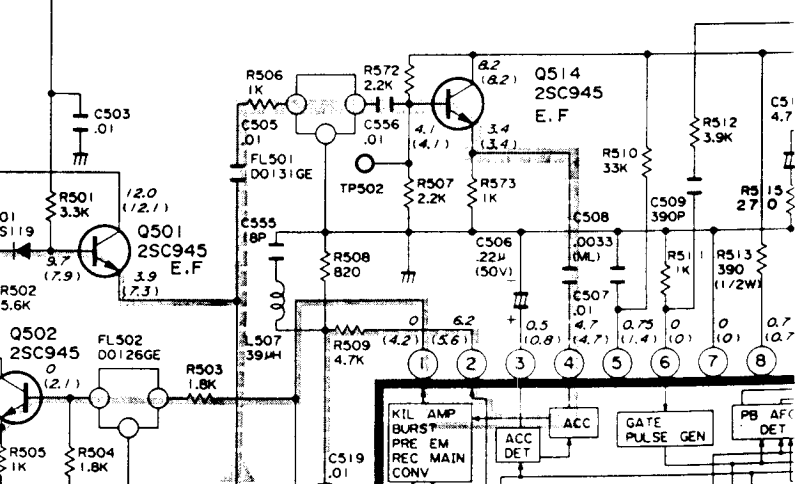
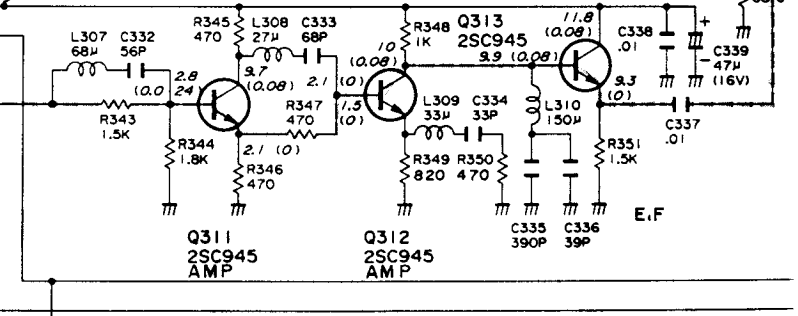
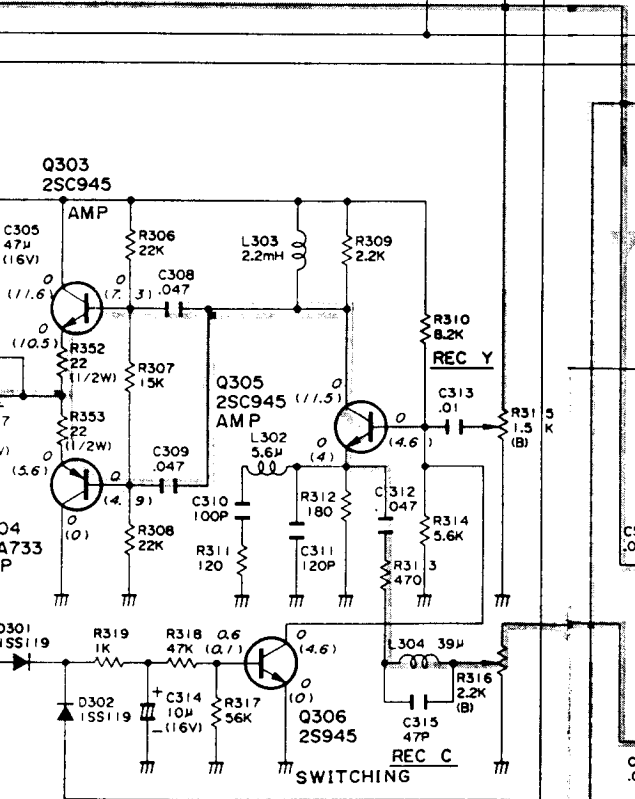
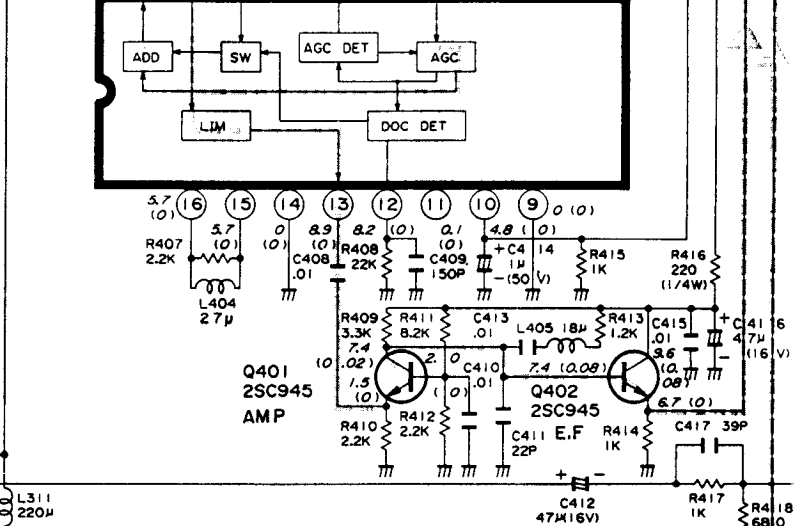
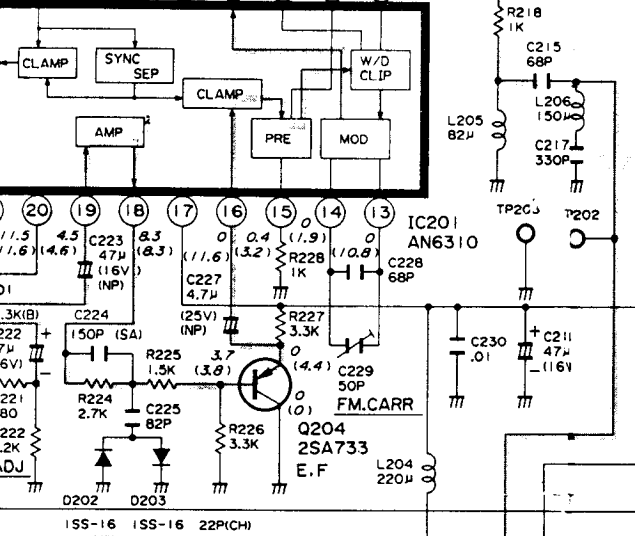
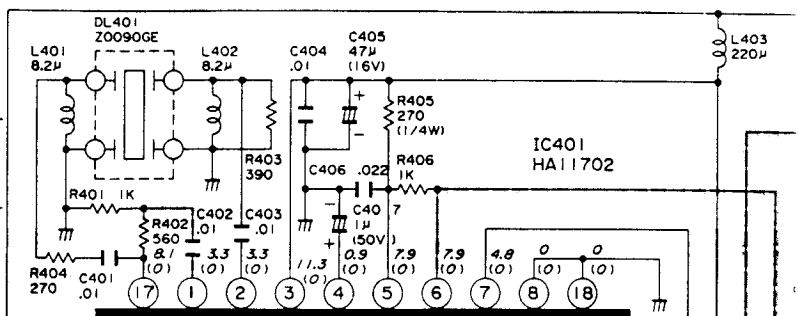
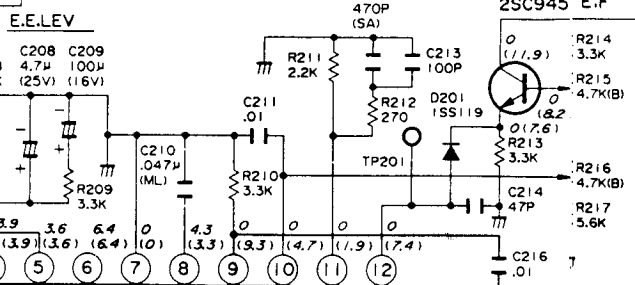
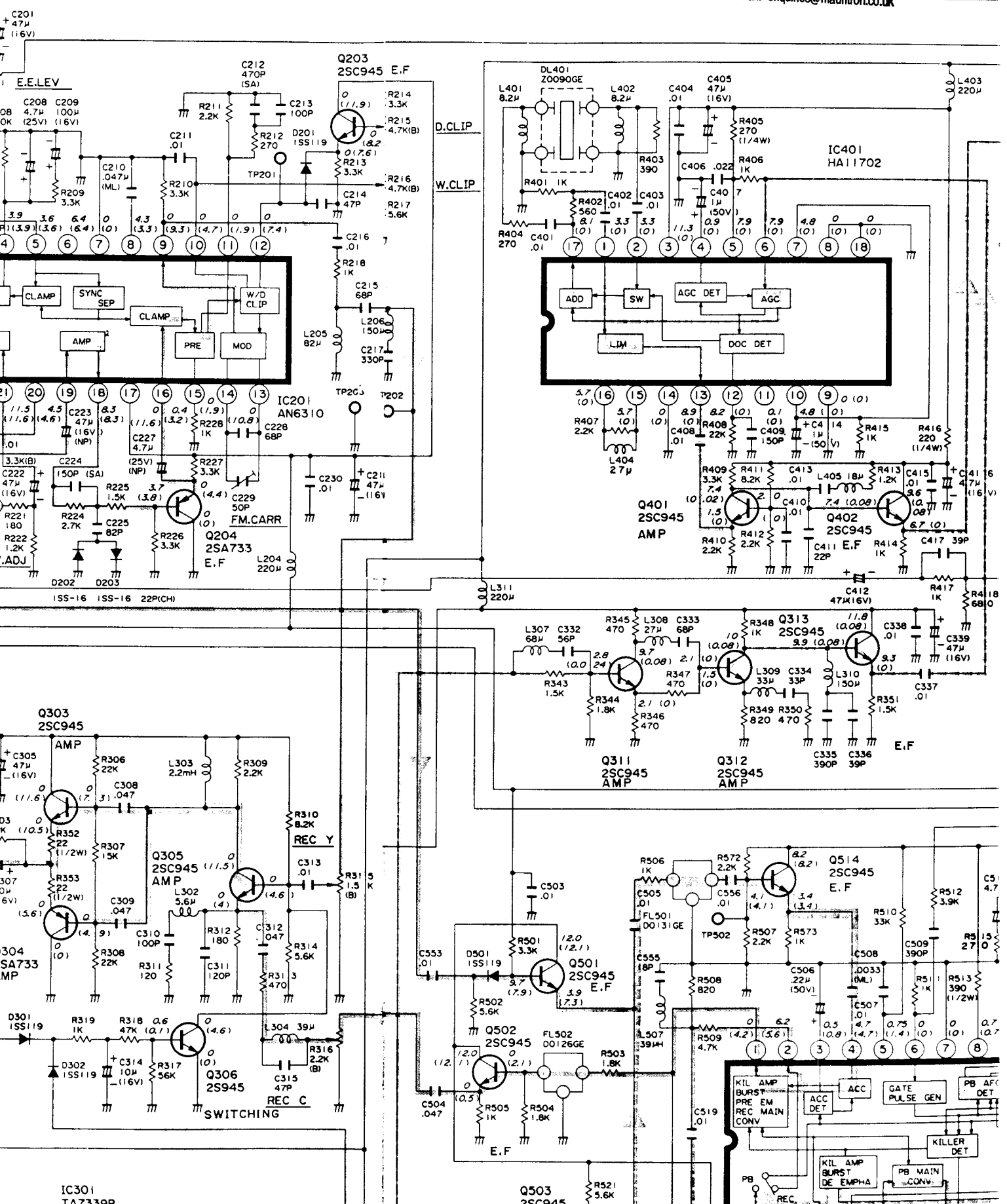
W.I.

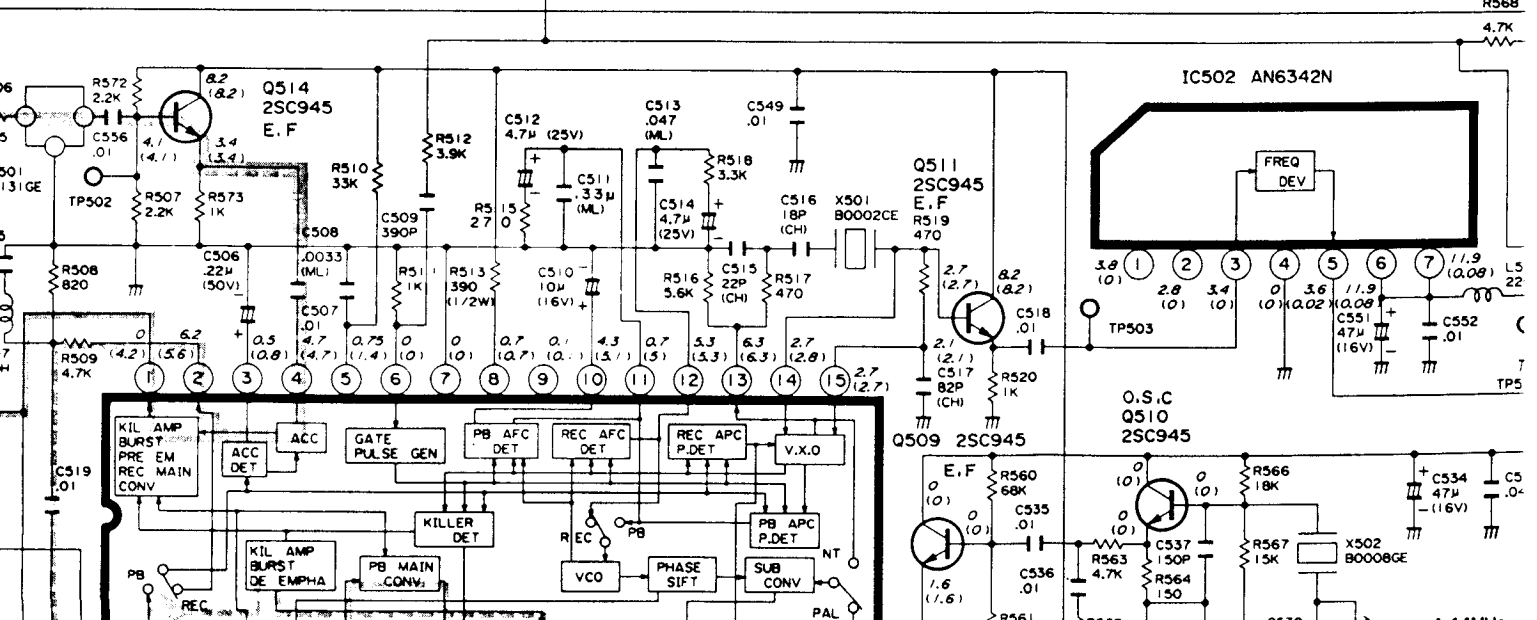
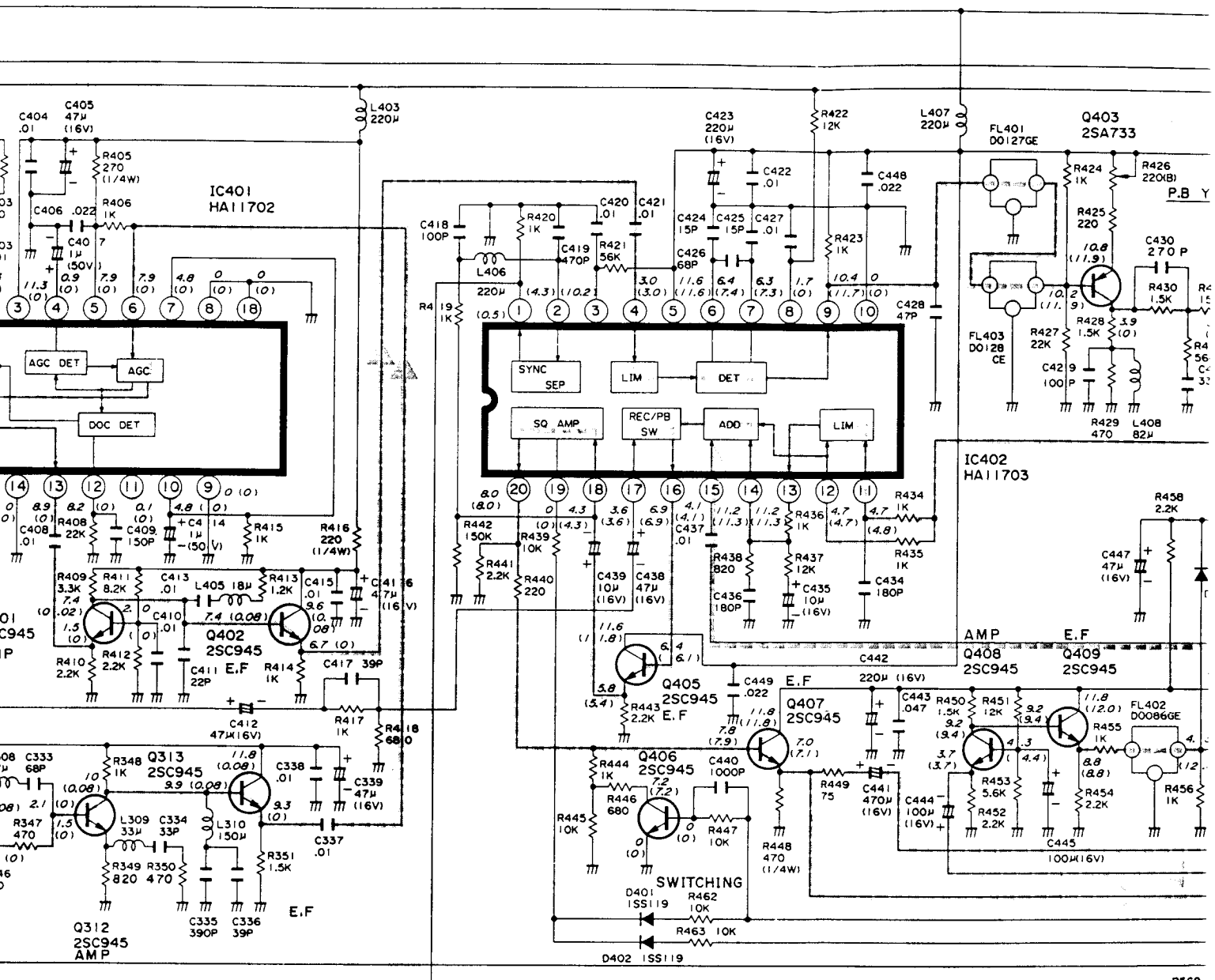
W.I.





W.I.

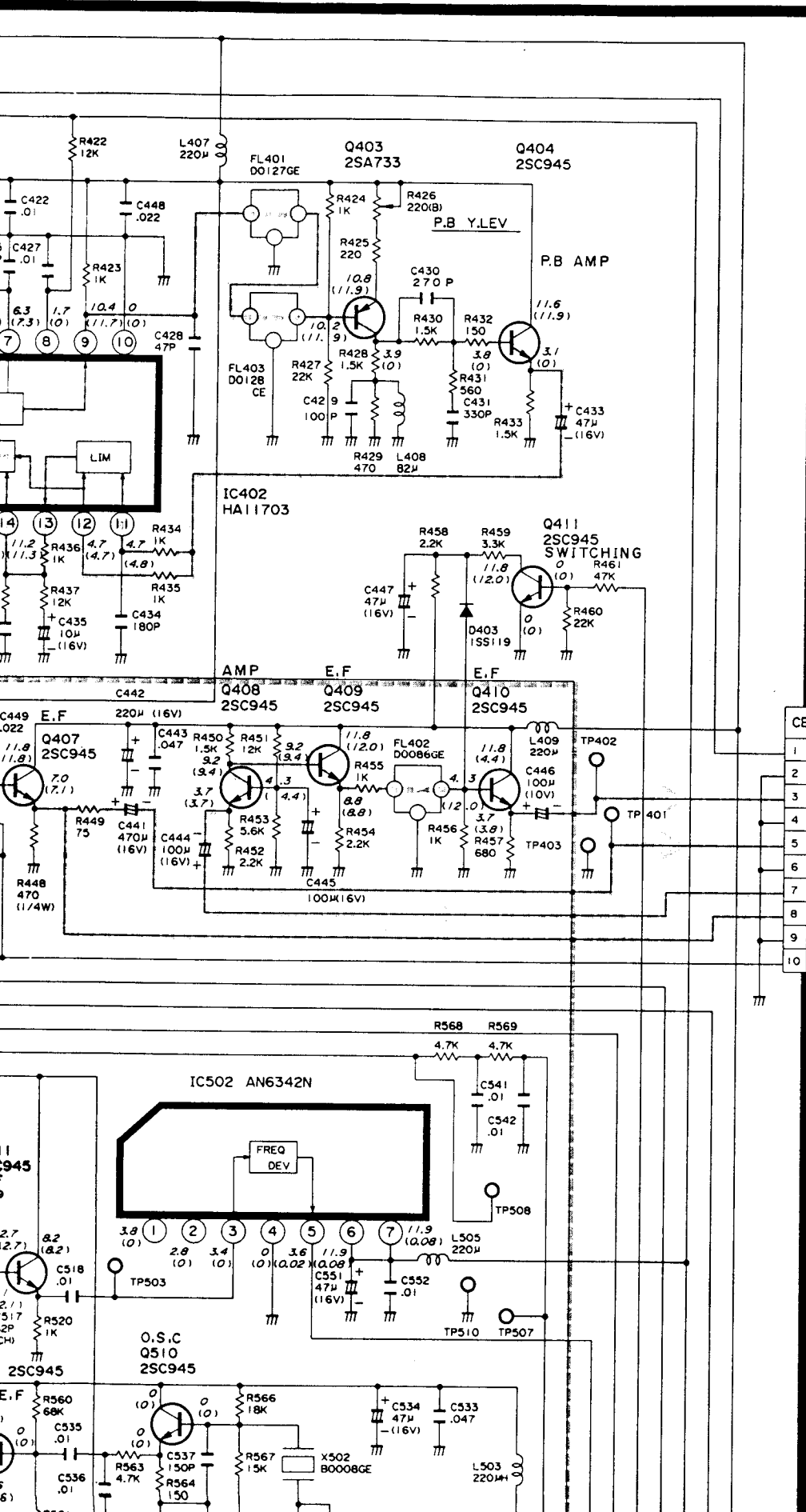
DIAGRAM (VC-381H,W/383H)

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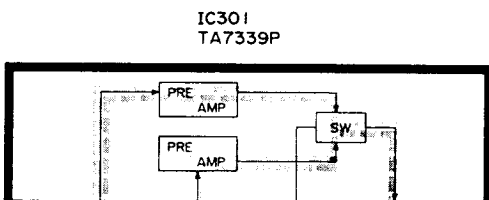
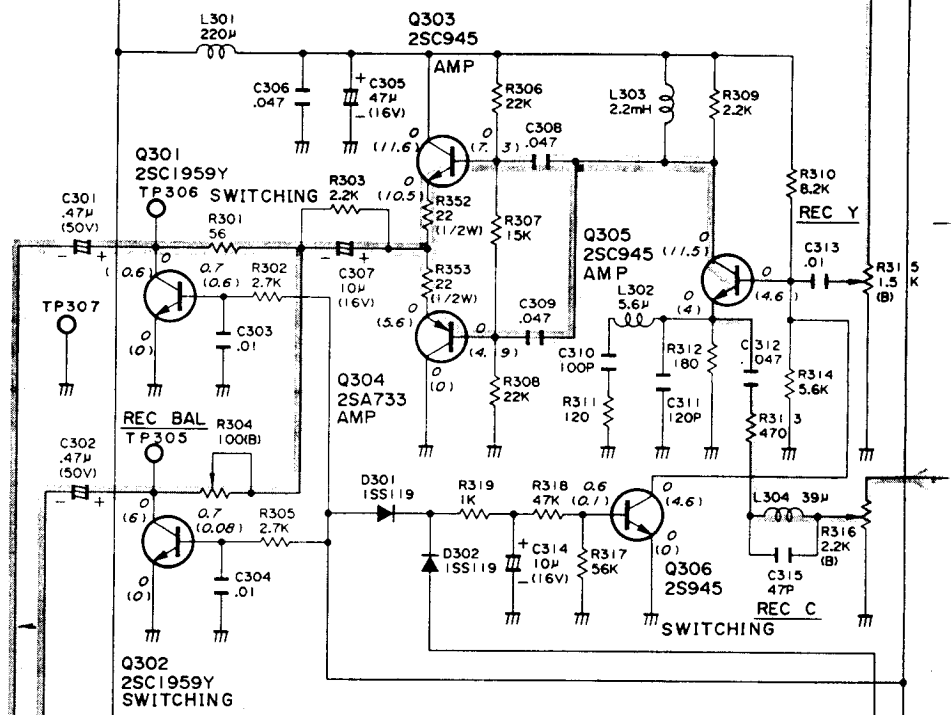
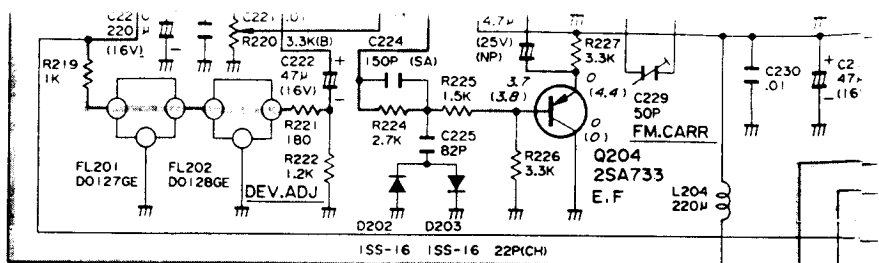
-  REC Y Signal
-  PB Y Signal
-  REC C Signal
-  PB C Signal



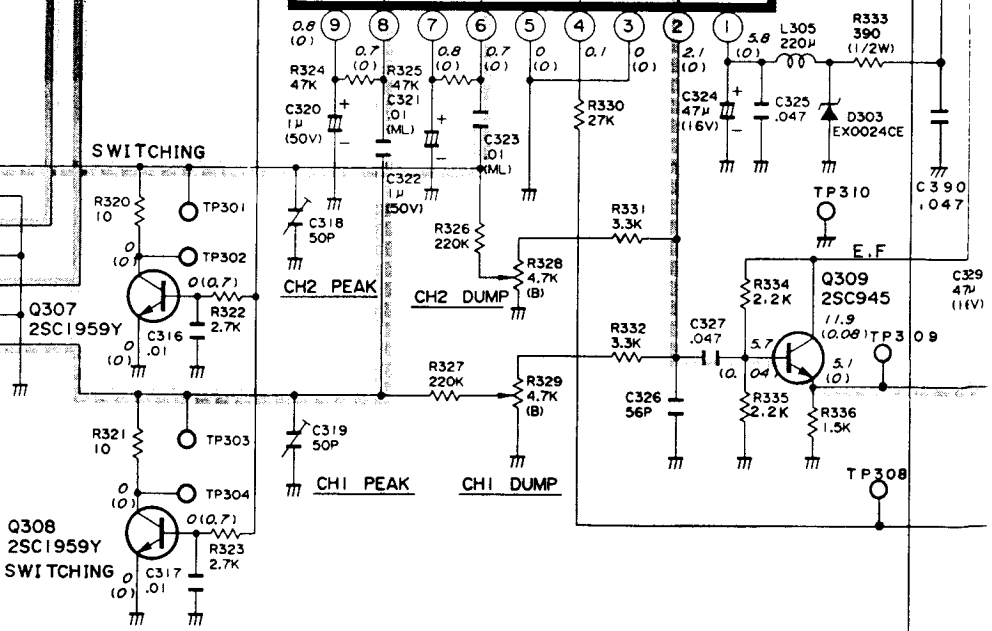
CB	QCNW-0863GE	
1	VIDEO IN(AUX)	RA10
2	GND	RA9
3	VIDEO OUT (RF)	RA2
4	GND	RA1
5	VIDEO OUT	RA7
6	GND	RA8
7	P. TONE1	AL4
8	P. TONE2	AL2
9	P. TONE3	AL3
10	FV IN	AL1

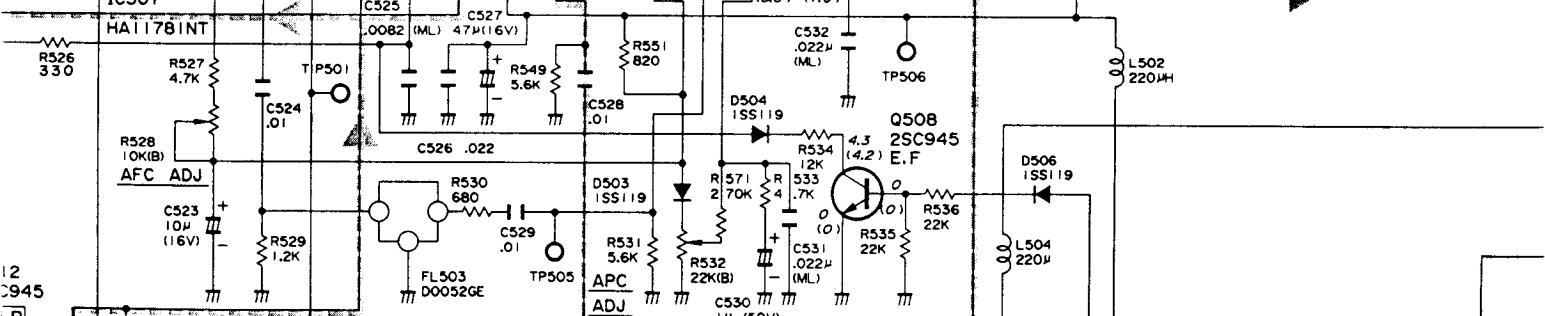
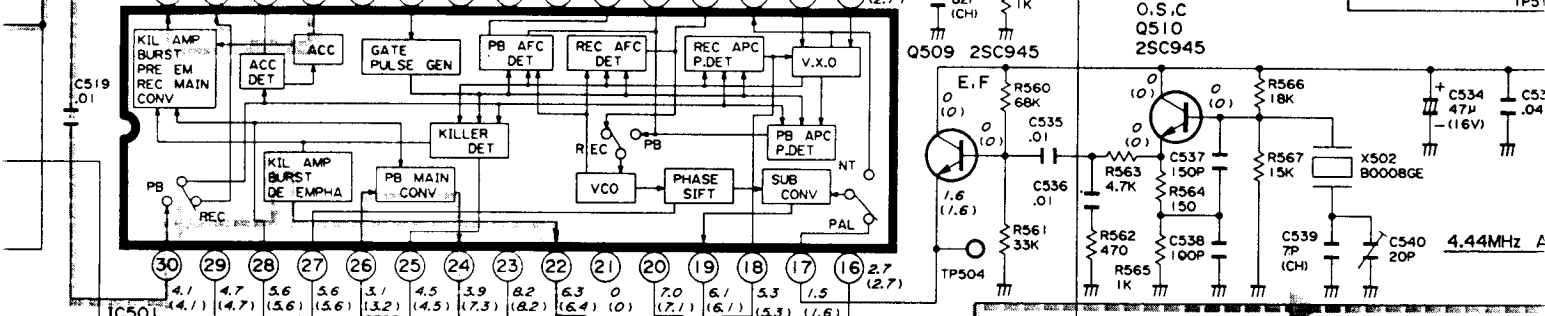
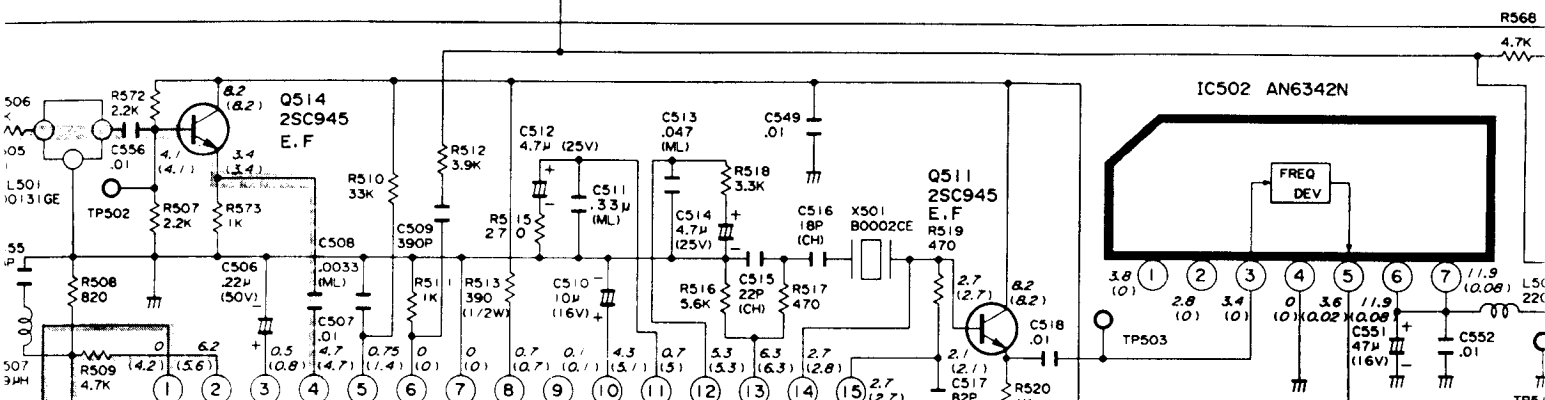
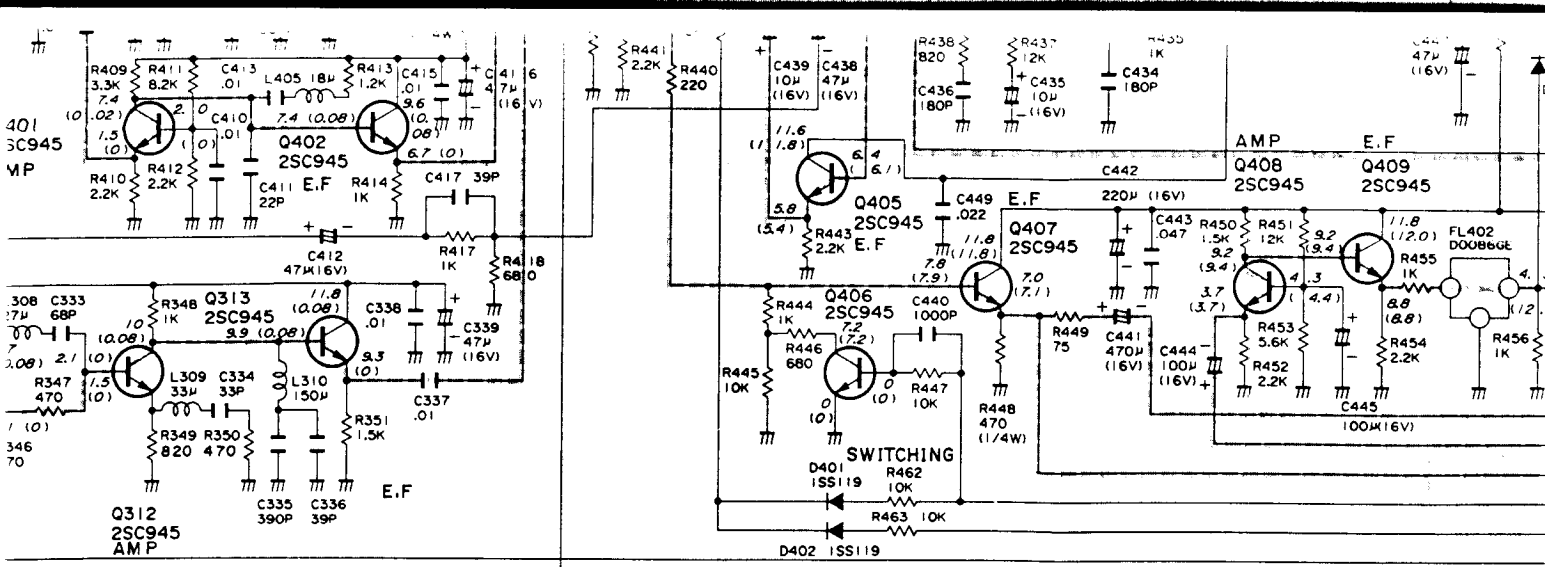
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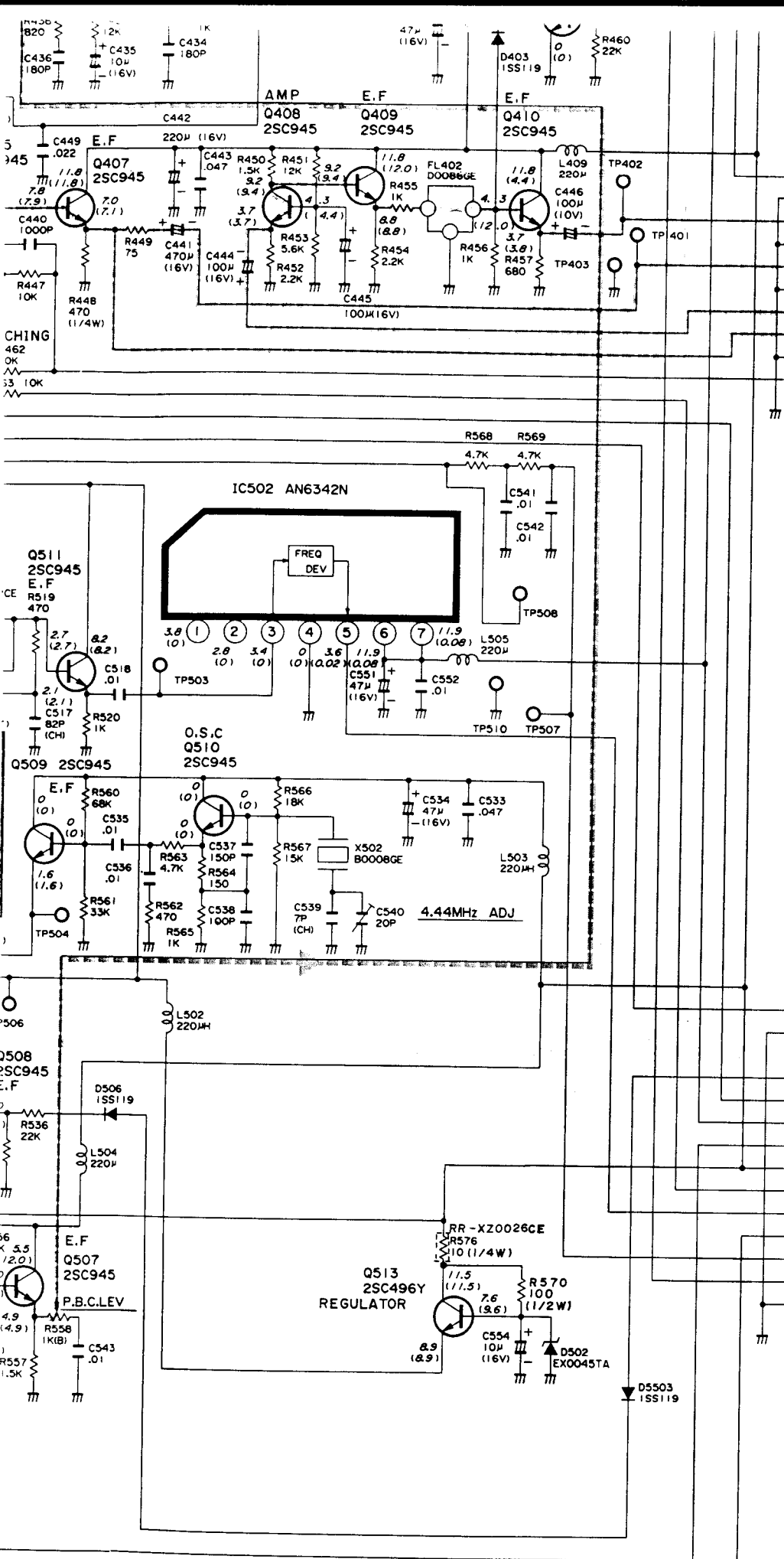
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		CA
DA1	V.H (2-A)	1
DA3	GND	2
DA2	V.H (2-B)	3
NC	GND	4
DA5	V.H (1-B)	5
DA4	GND	6
DA6	V.H (1-A)	7







CB QCNW-0863GE		
1	VIDEO IN(AUX)	RA10
2	GND	RA9
3	VIDEO OUT (RF)	RA2
4	GND	RA1
5	VIDEO OUT	RA7
6	GND	RAB
7	P. TONE1	AL4
8	P. TONE2	AL2
9	P. TONE3	AL3
10	FV IN	AL1

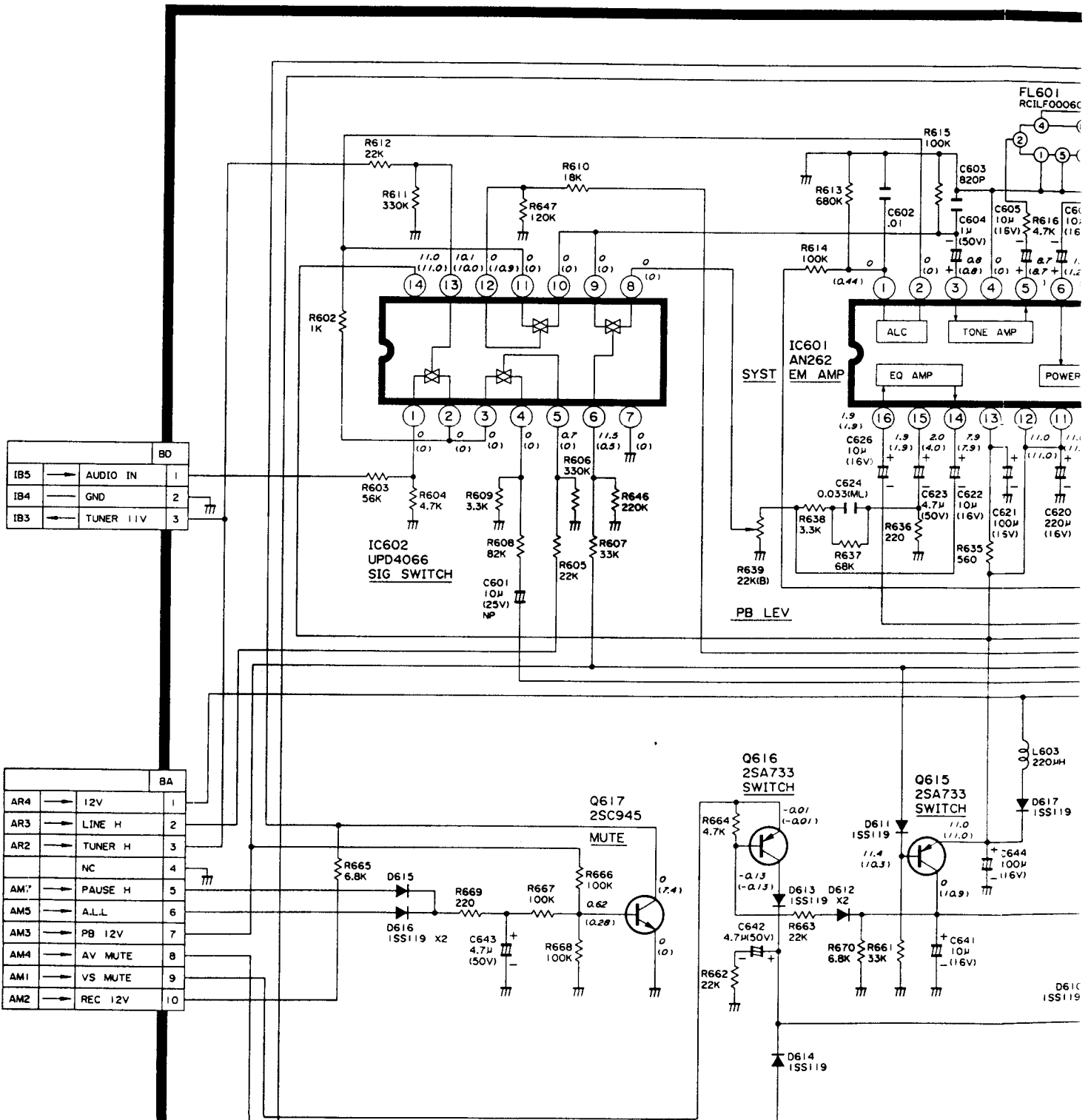
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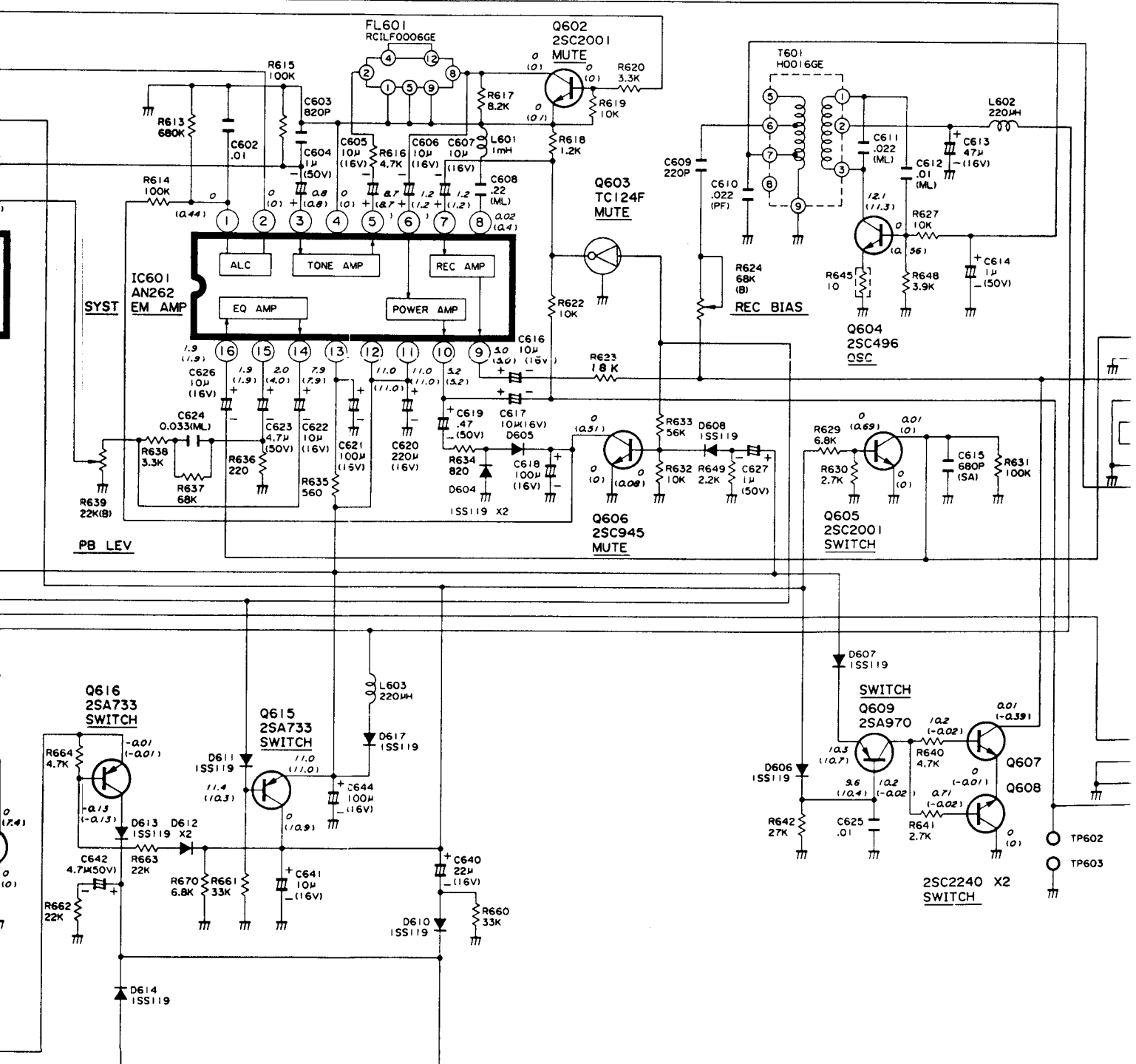
CC QCNW-0863GE		
1	VIDEI INTUNER)	IB1
2	GND	IB2
3	NC	
4	COLOR H	RA6
5	REC 12V	AK2
6	PB 12V	AK3
7	AL L	AK5
8	12V	AK8
9	AV-MUTE	AK4
10	PB-50Hz	AK7
11	H-SW.P	AK6
12	V-SYNC	AK1
13	TRICK H	AR1
14	GND	AK9

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PWB-B, AUDIO CIRCUIT SCHEMATIC DIAGRAM (VC-381H,W/383H)

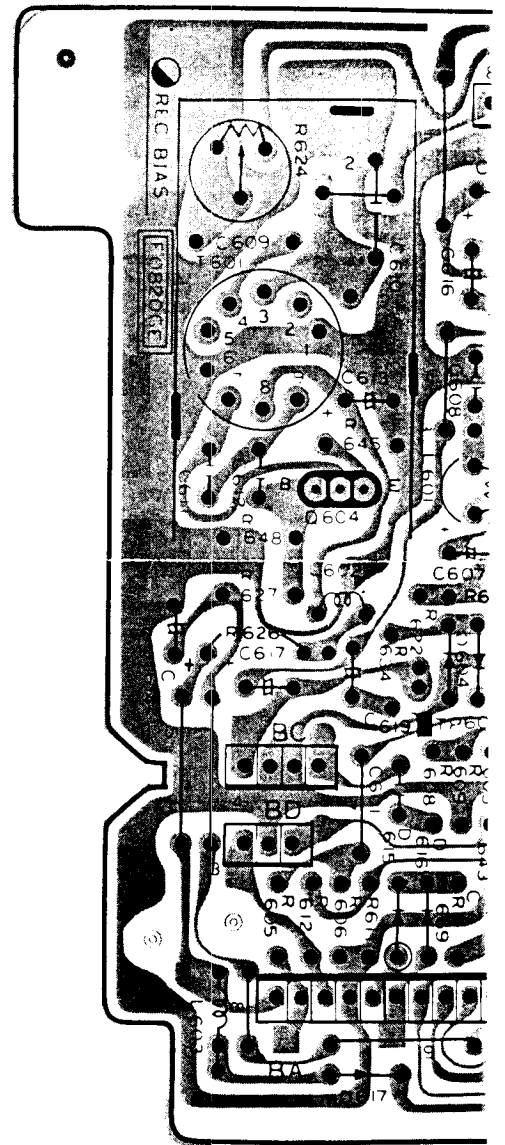
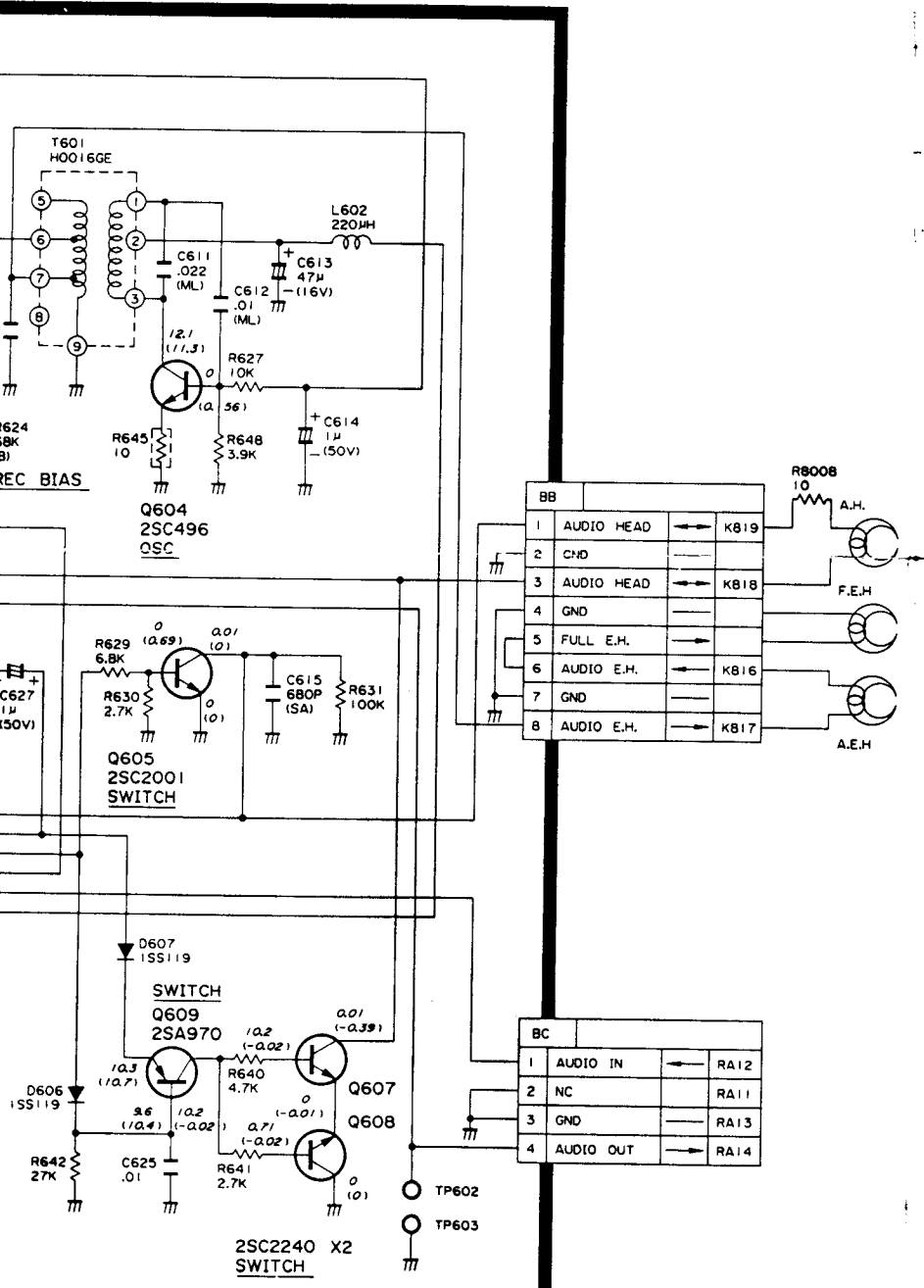
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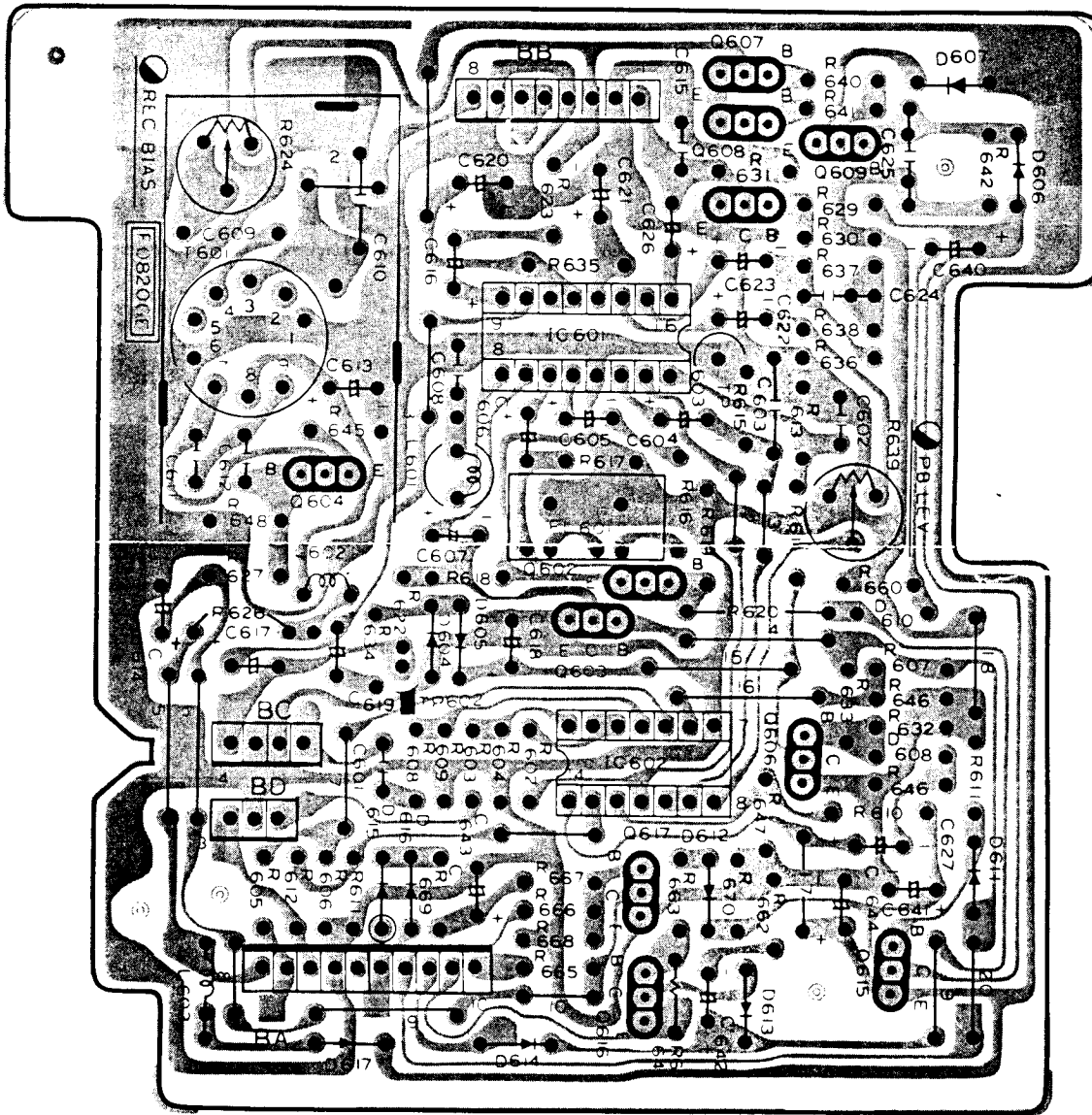
PWB-B, AUDIO CIRCUIT WIRING SIDE

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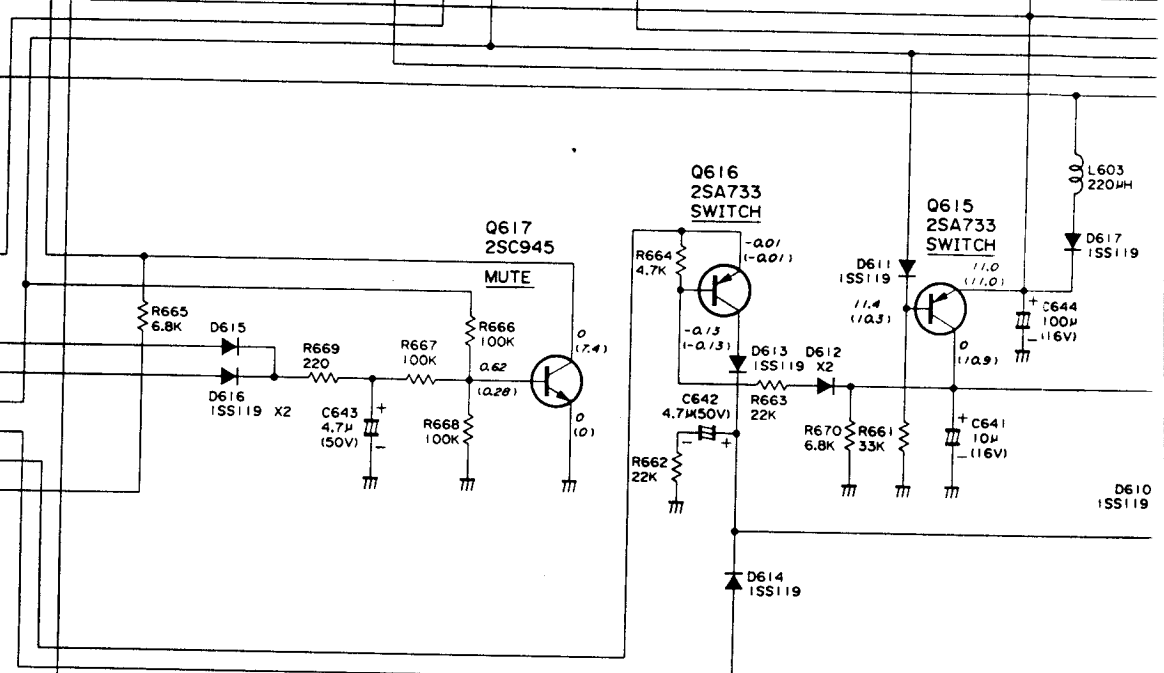
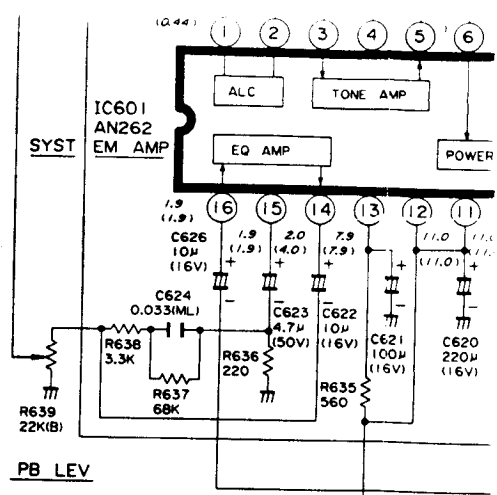
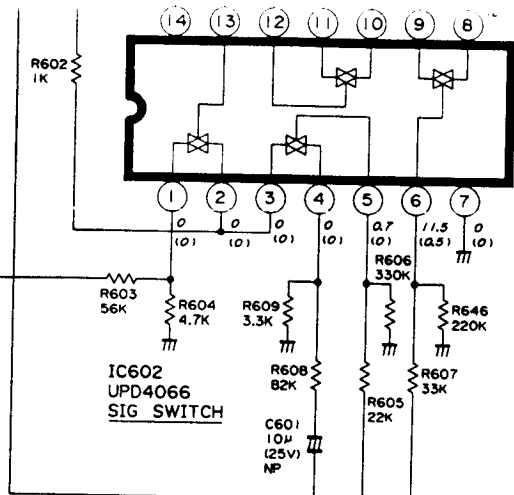
PWB-B, AUDIO CIRCUIT WIRING SIDE PWB (VC-381H,W/383H)

A
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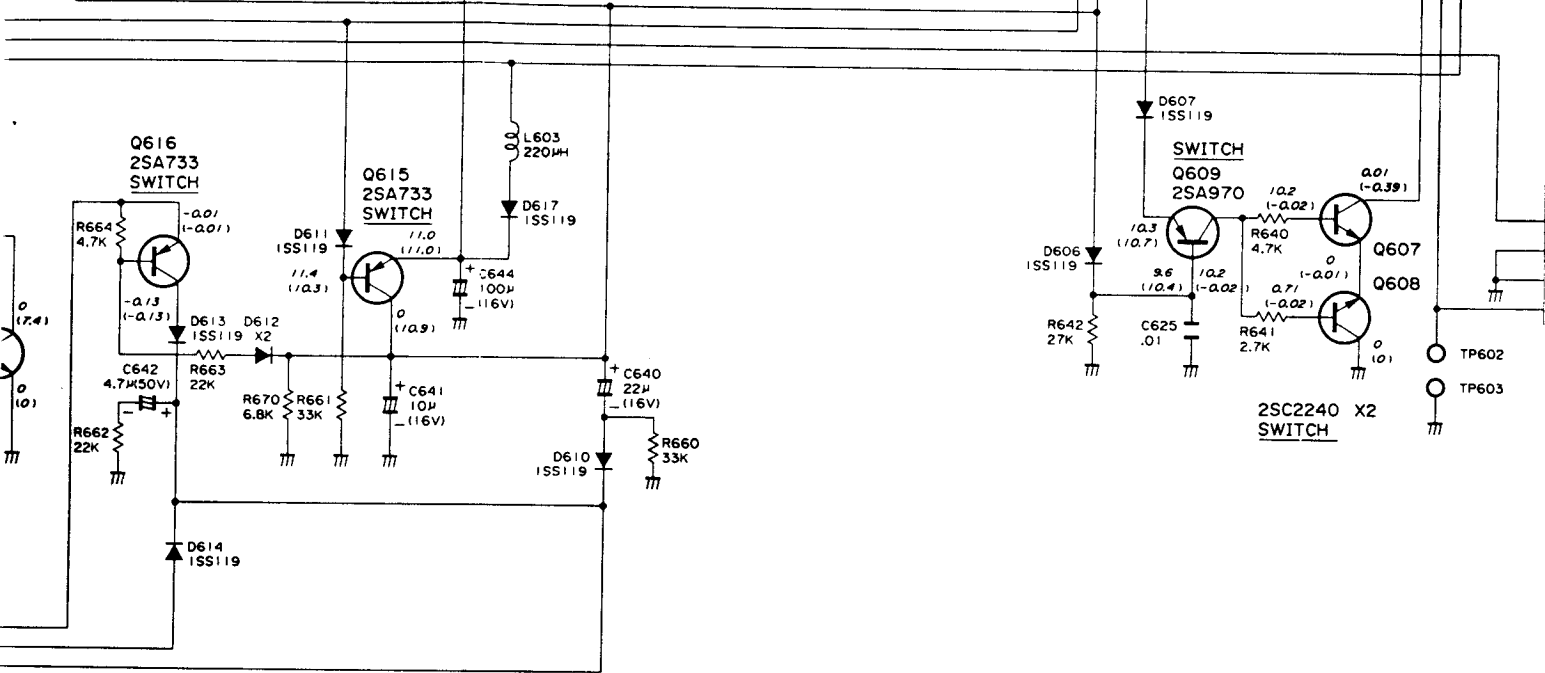
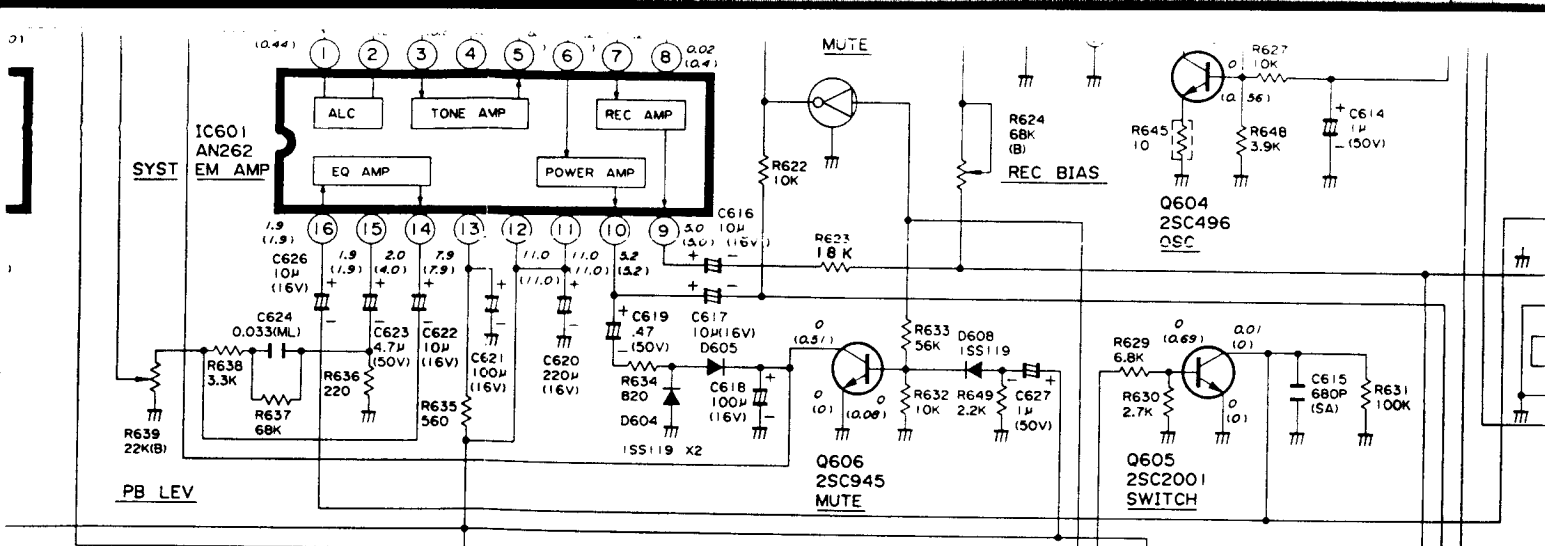
		BD	
IB5	AUDIO IN	1	
IB4	GND	2	
IB3	TUNER 11V	3	

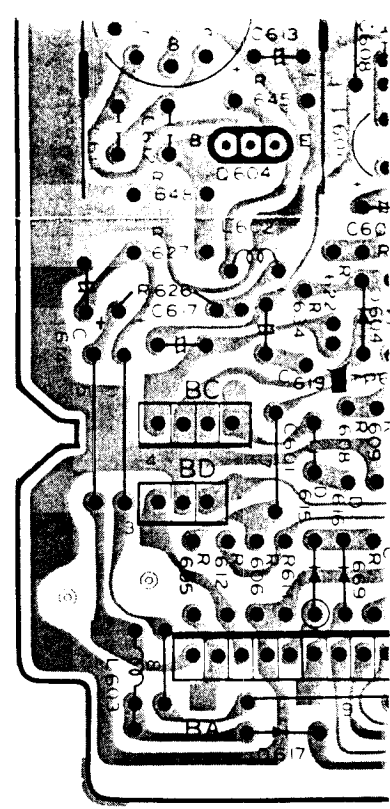
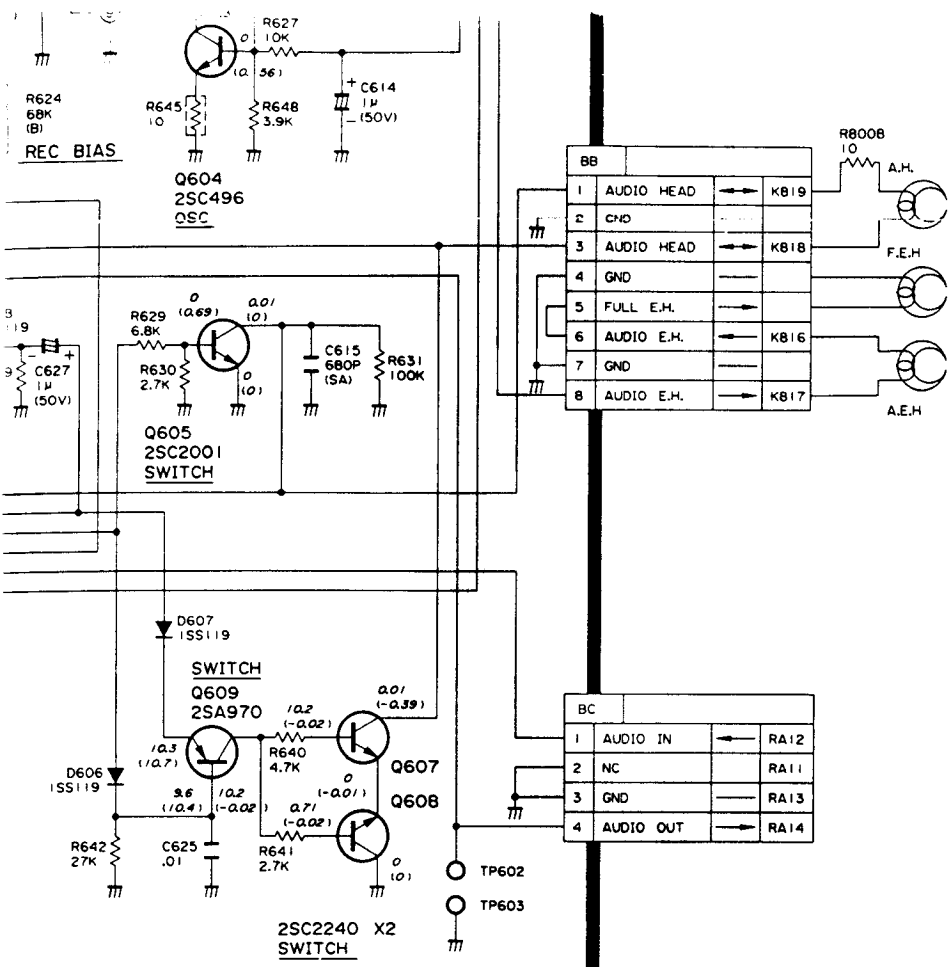
		BA	
AR4	12V	1	
AR3	LINE H	2	
AR2	TUNER H	3	
	NC	4	
AM7	PAUSE H	5	
AM5	A.L.L	6	
AM3	PB 12V	7	
AM4	AV MUTE	8	
AM1	VS MUTE	9	
AM2	REC 12V	10	

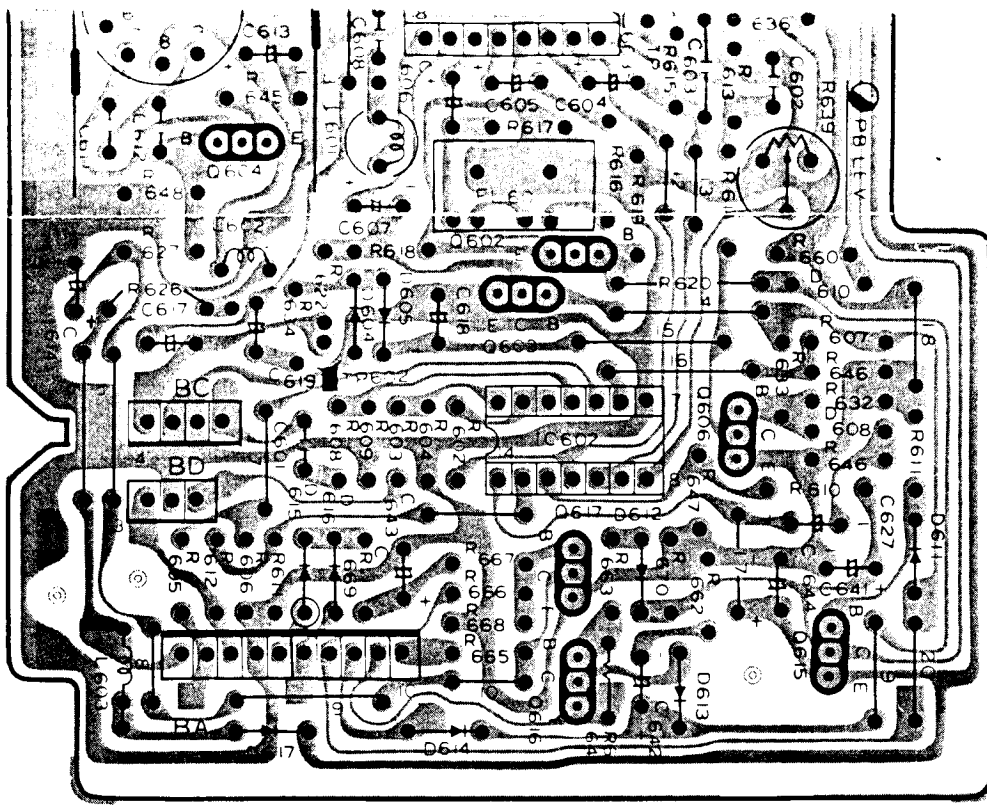


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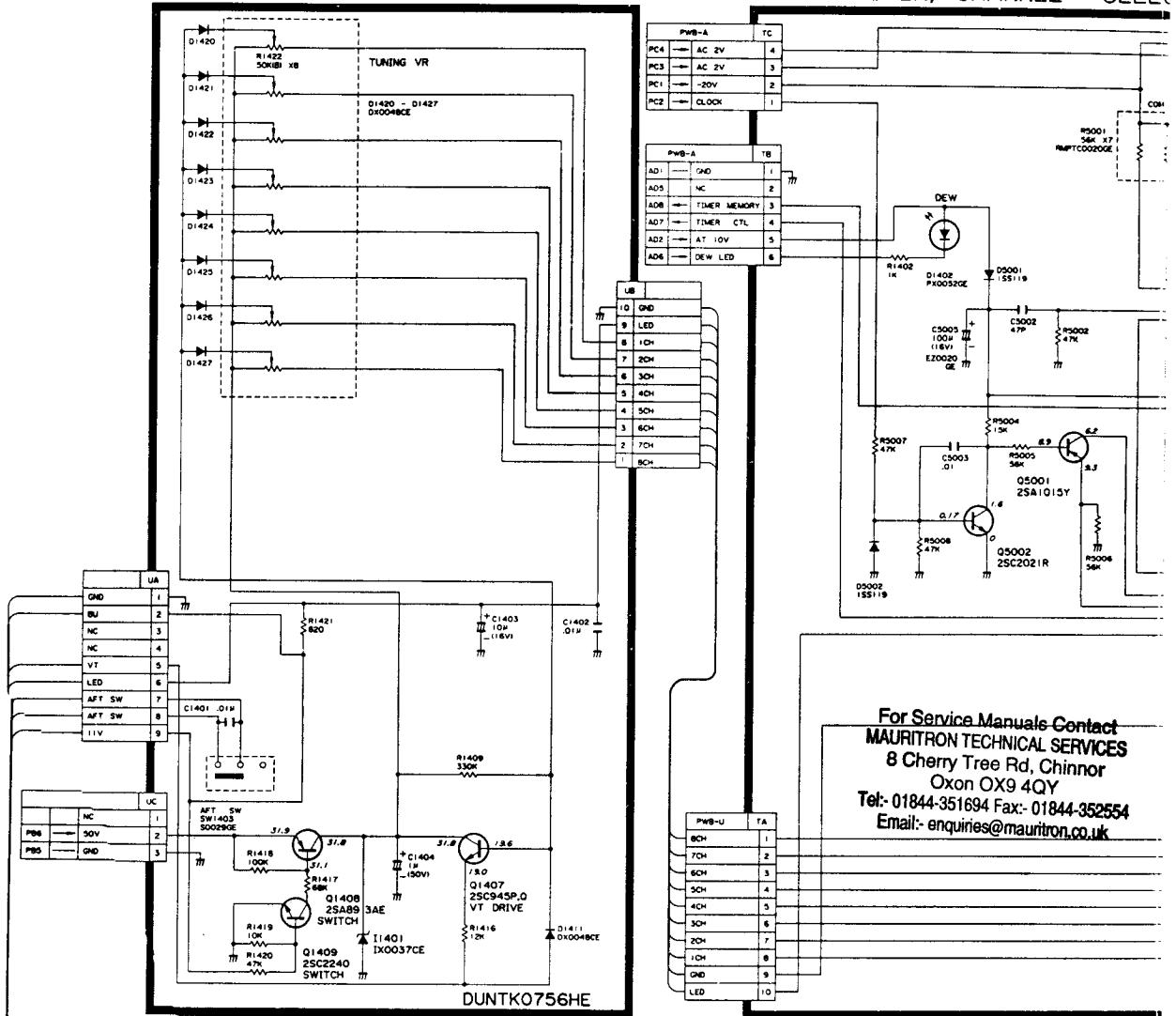


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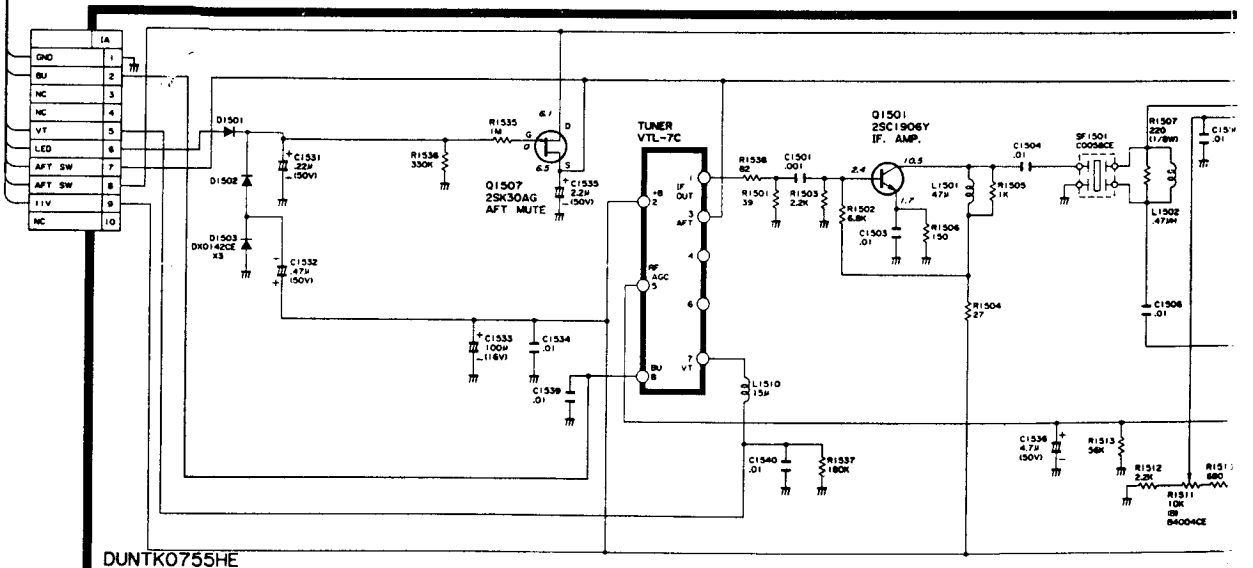
PWB-I, IF CIRCUIT SCHEMATIC DIAGRAM (VC-381H,W/383H)
PWB-T, TIMER, CHANNEL SELECTOR CIRCUIT SCHEMATIC DIAGRAM (VC-381H,W)
PWB-U, CHANNEL TUNING CIRCUIT SCHEMATIC DIAGRAM (VC-381H,W/383H)

PWB-U CHANNEL TUNING

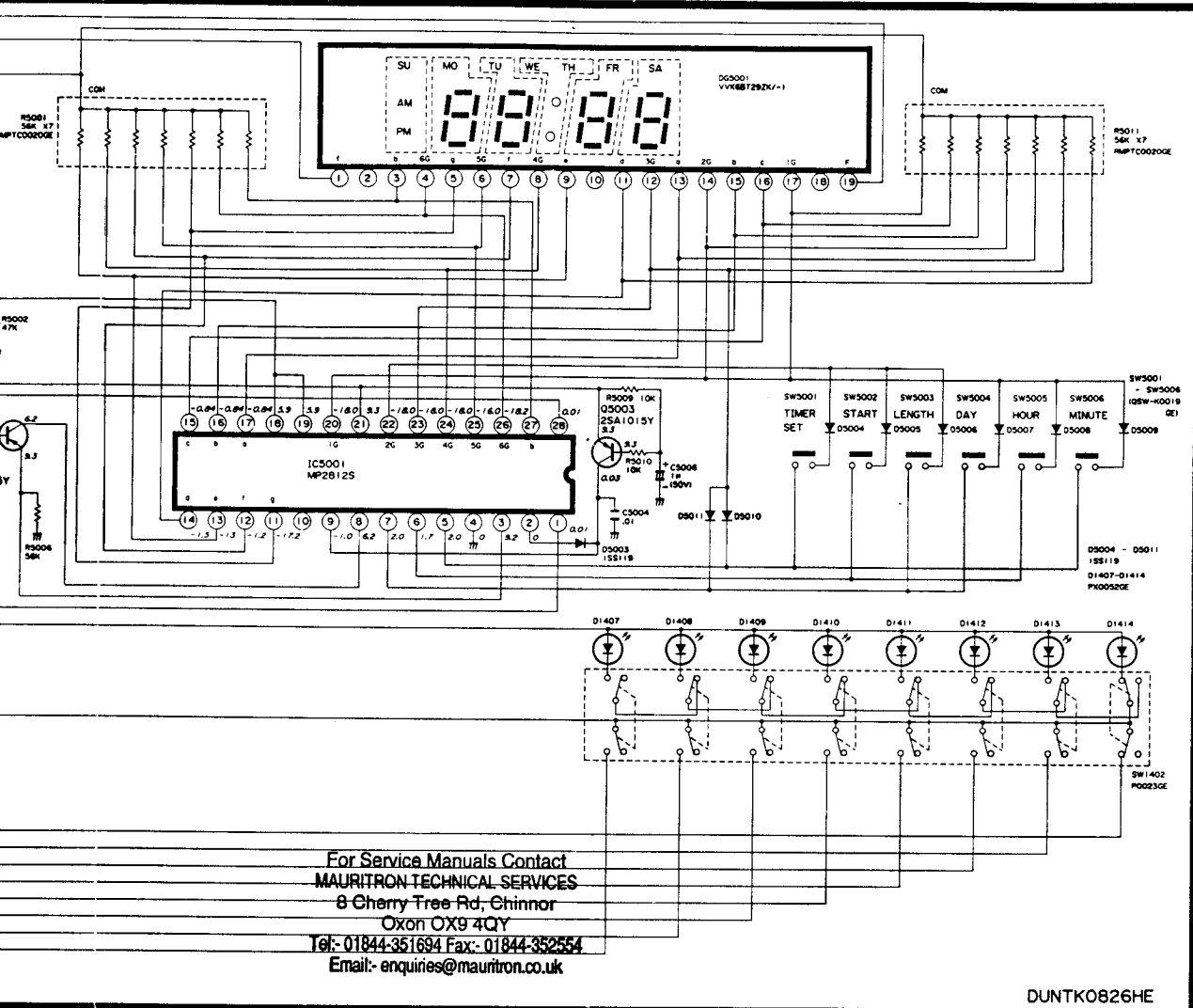
PWB-T TIMER, CHANNEL SELEC



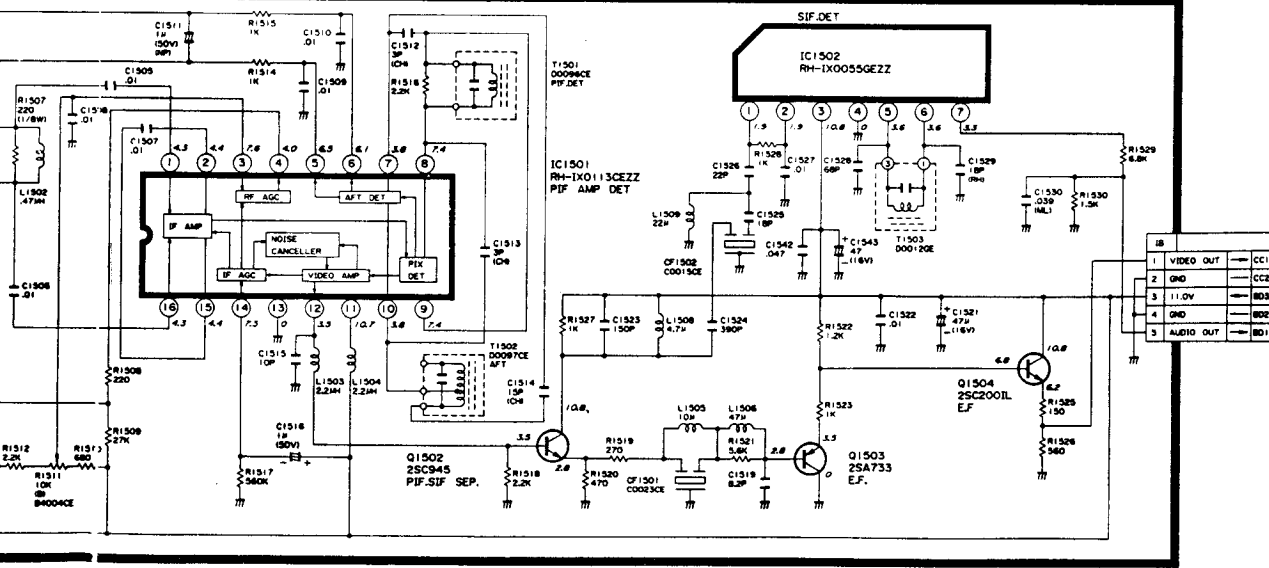
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SELECTER, CIRCUIT

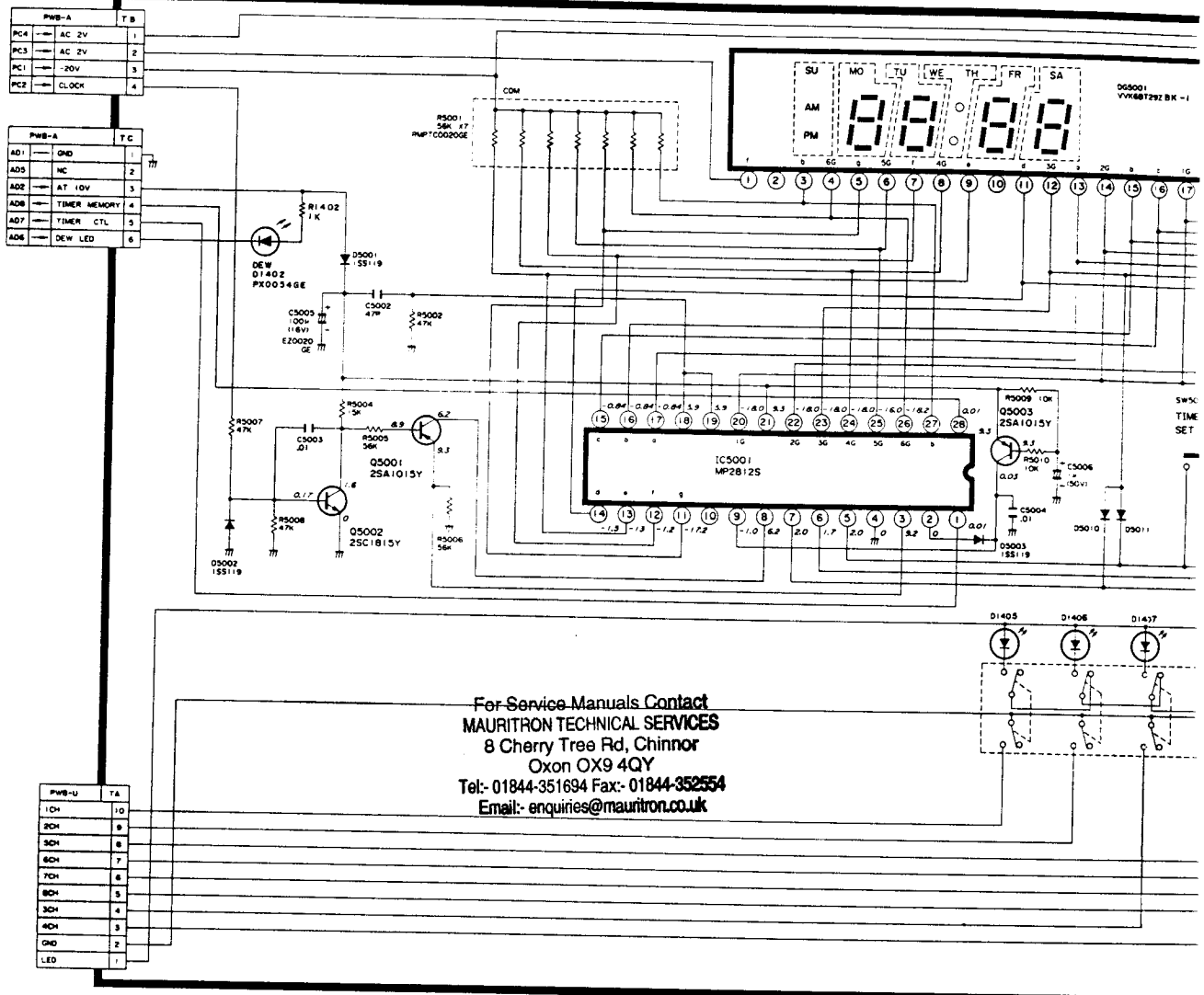


PWB-IRF/IF

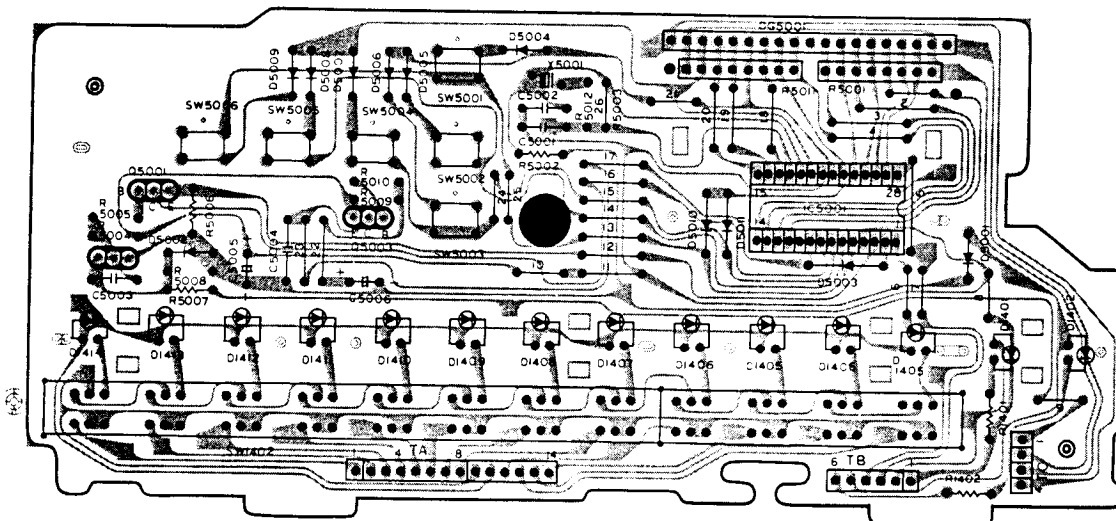


PWB-T, TIMER, CHANNEL SELECTOR CIRCUIT SCHEMATIC DIAGRAM (VC-383H)

PWB-T TIMER, CHANNEL SELECTOR, CIRCUIT



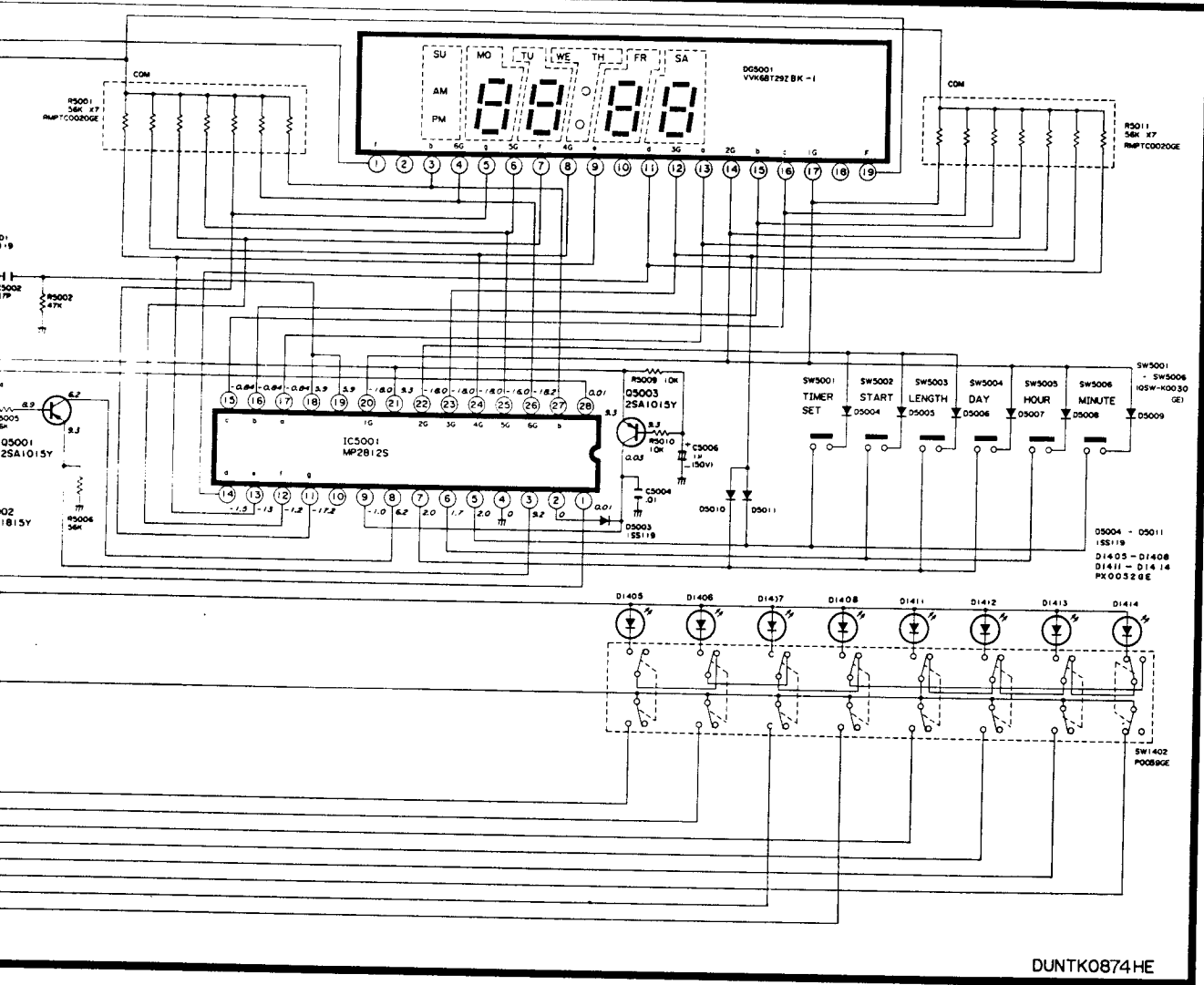
PWB-T, TIMER, CHANNEL SELECTOR CIRCUIT WIRING SIDE PWB (VC-381H,W)



CIRCUIT SCHEMATIC DIAGRAM (VC-383H)

CHANNEL SELECTOR, CIRCUIT

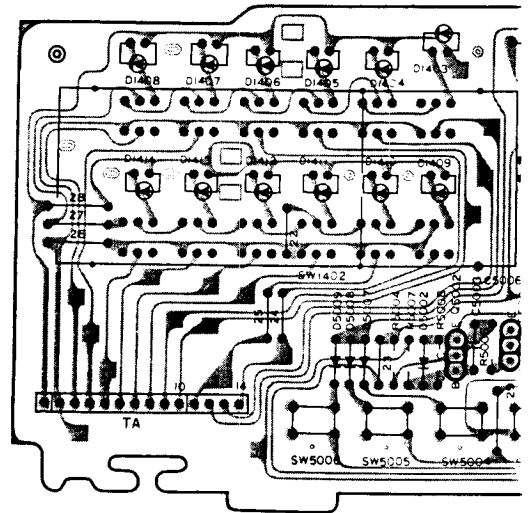
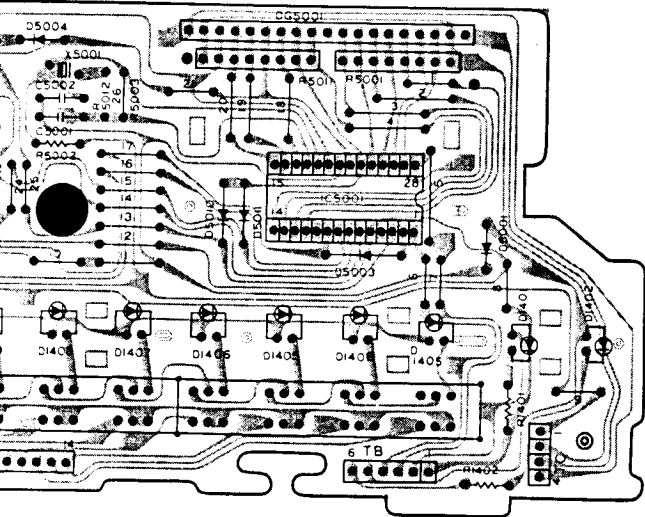
VC-383 H



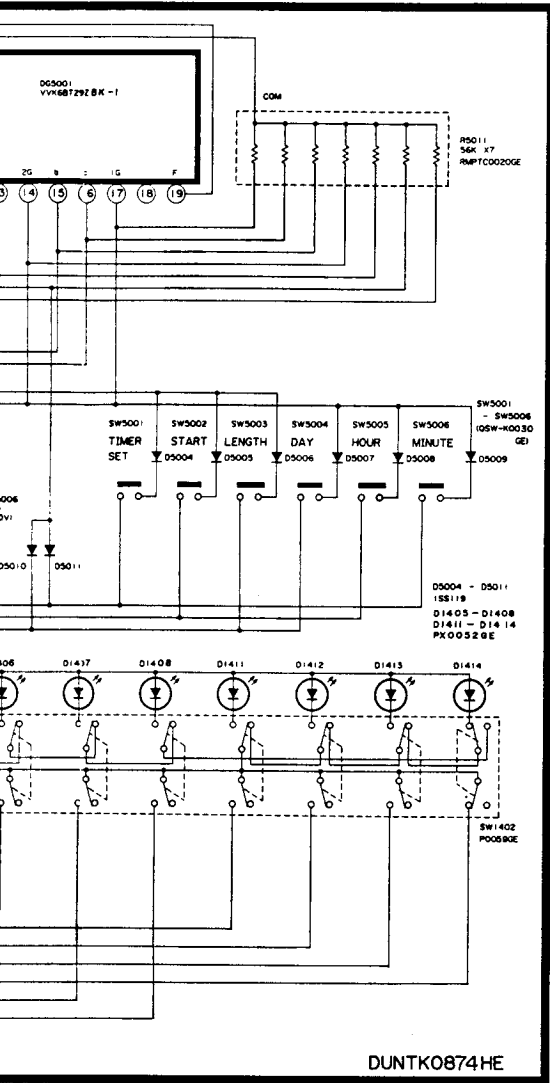
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CIRCUIT WIRING SIDE PWB (VC-381H,W)

PWB-T, TIMER, CHANNEL SELECTOR CIRCUIT

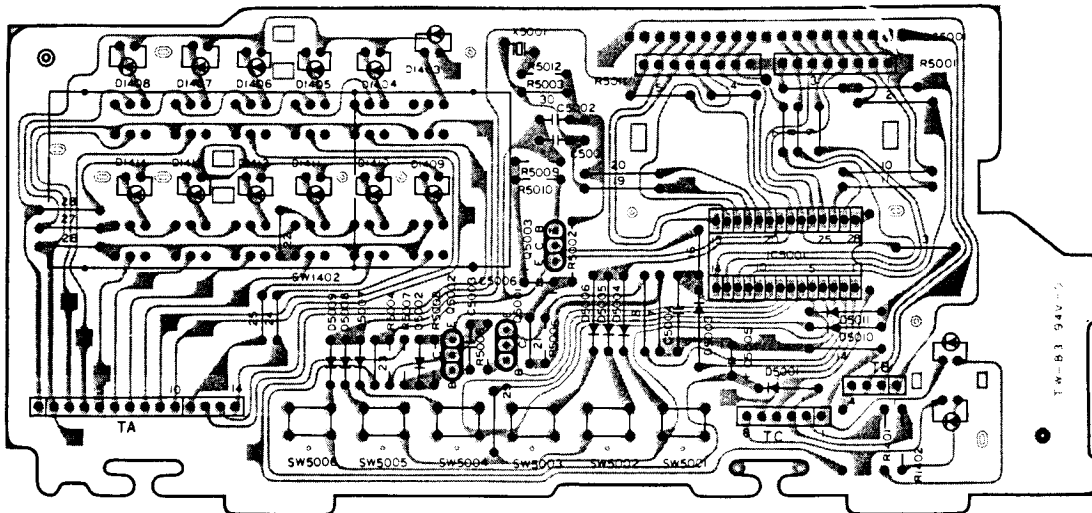


VC-383 H



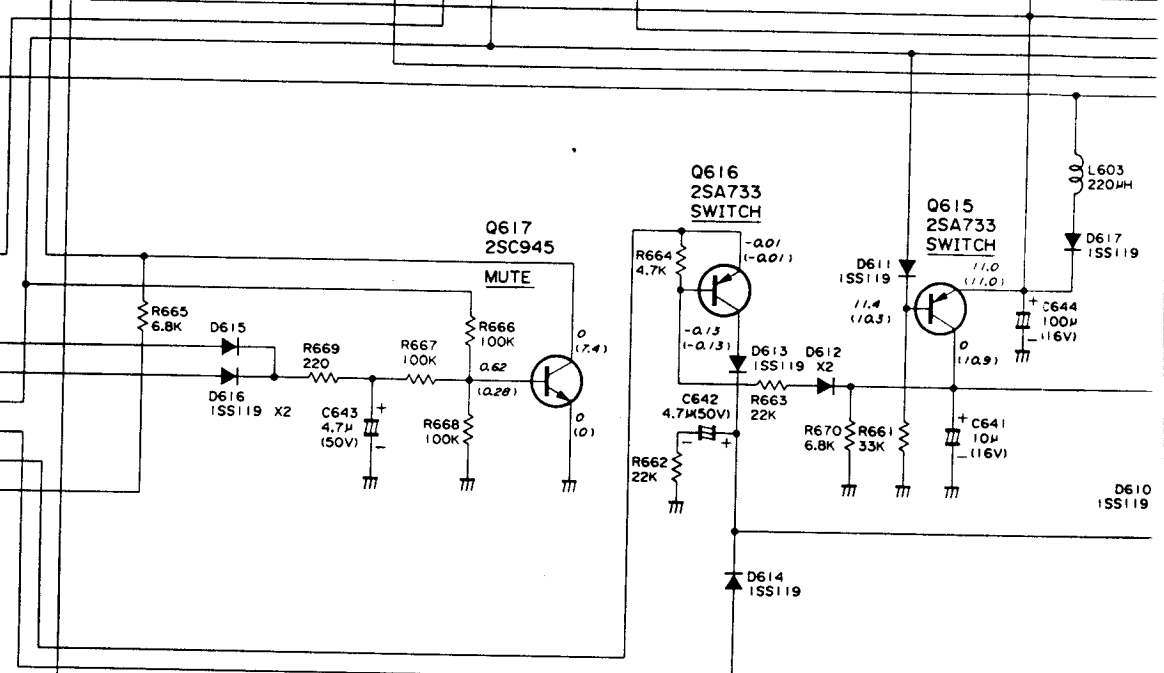
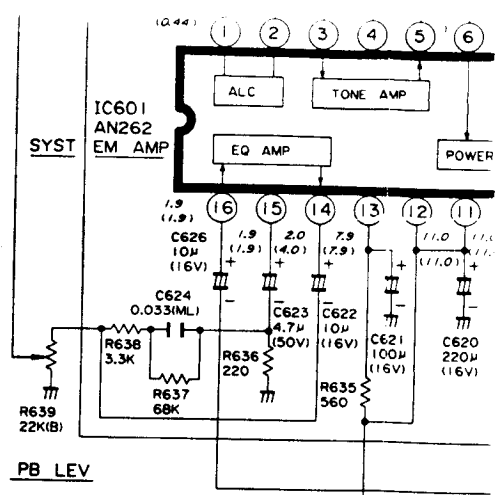
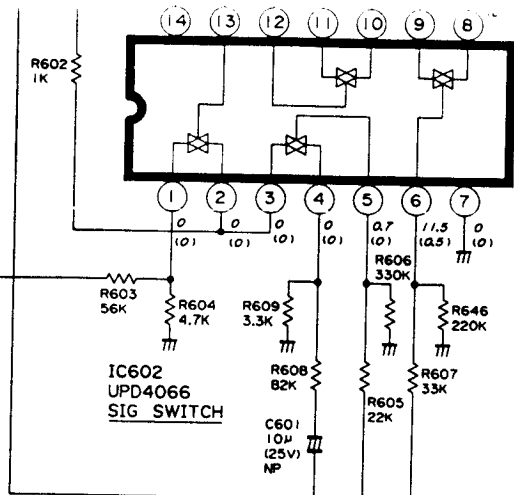
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PWB-T, TIMER, CHANNEL SELECTOR CIRCUIT WIRING SIDE PWB (VC-383H)



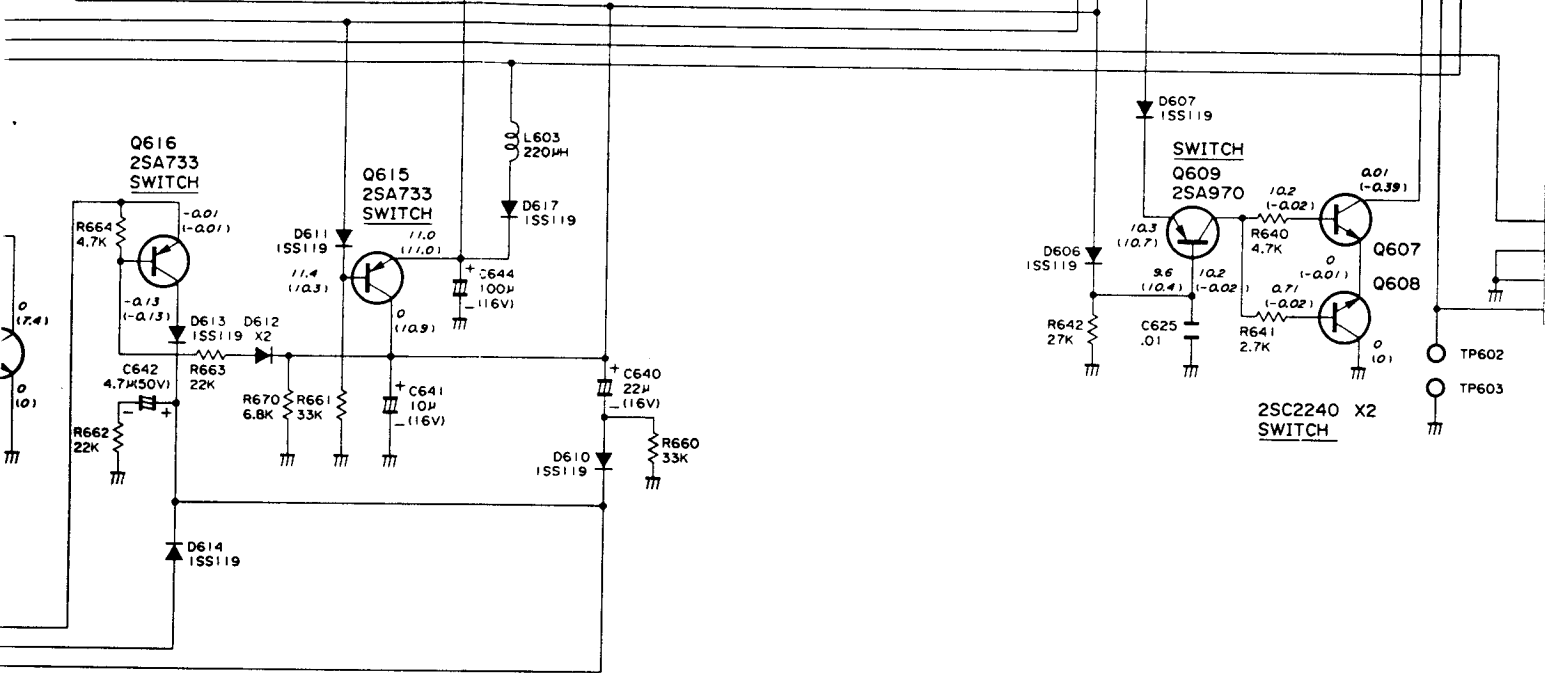
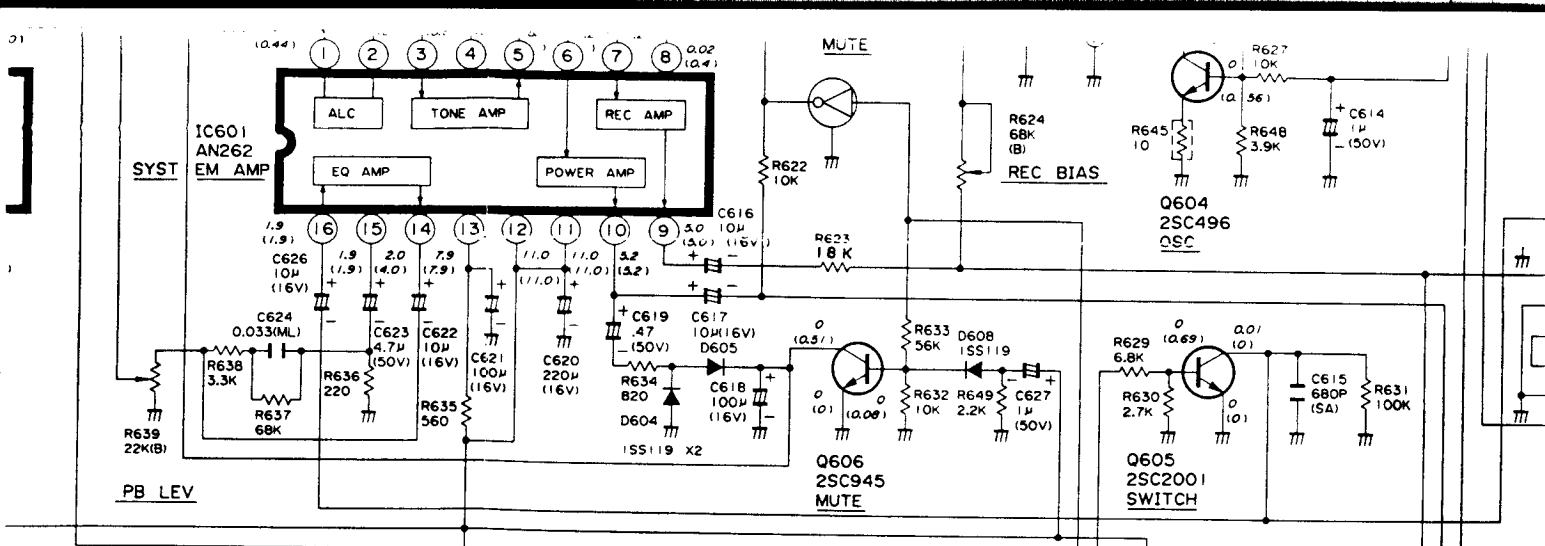
		BD	
IB5	AUDIO IN	1	
IB4	GND	2	
IB3	TUNER 11V	3	

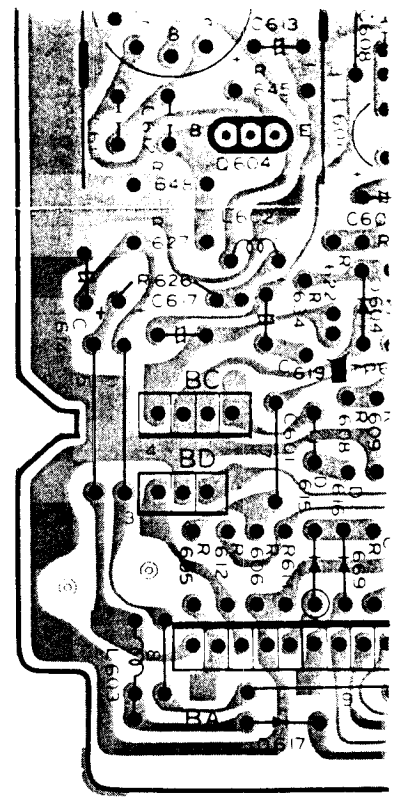
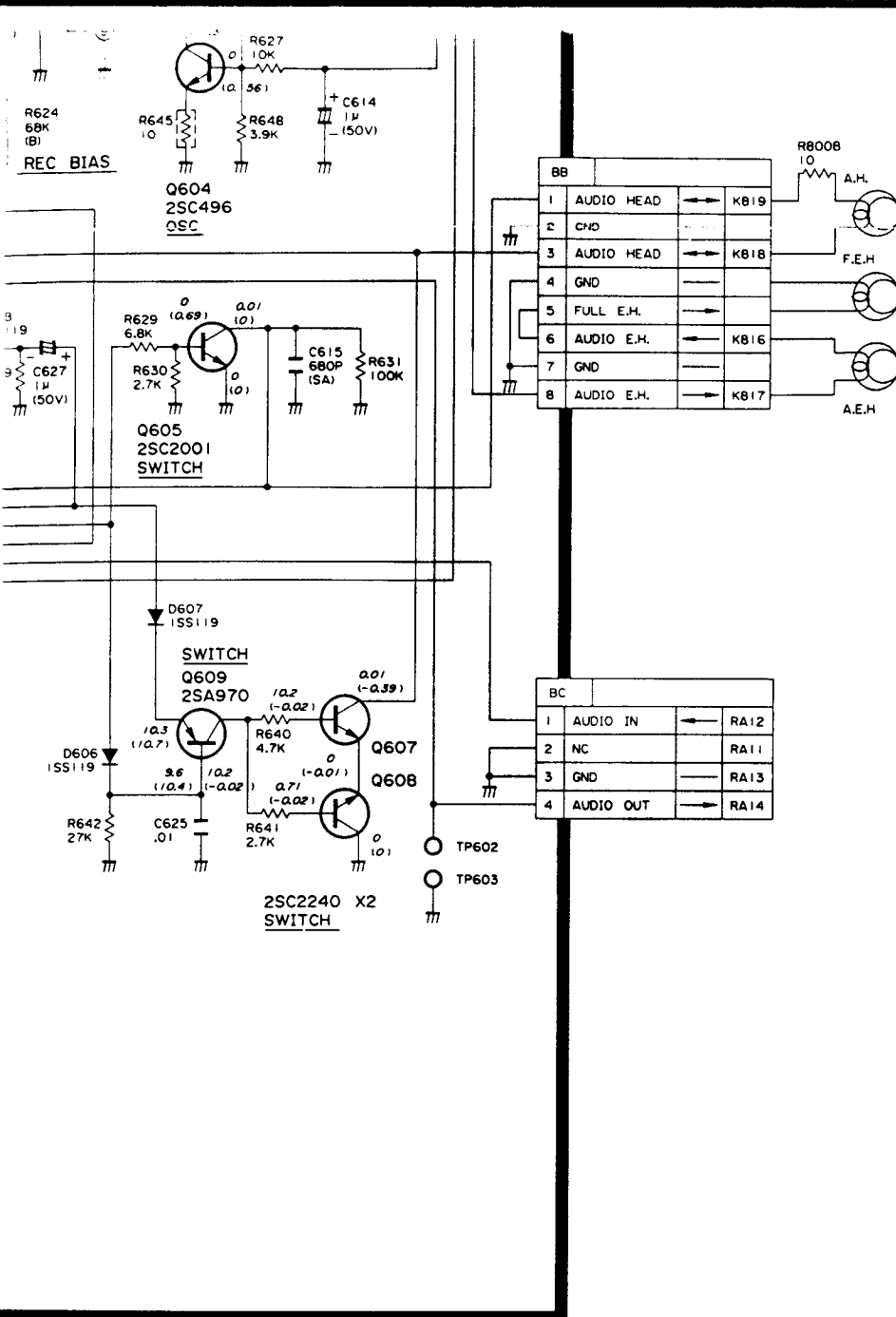
		BA	
AR4	12V	1	
AR3	LINE H	2	
AR2	TUNER H	3	
	NC	4	
AM7	PAUSE H	5	
AM5	A.L.L	6	
AM3	PB 12V	7	
AM4	AV MUTE	8	
AM1	VS MUTE	9	
AM2	REC 12V	10	

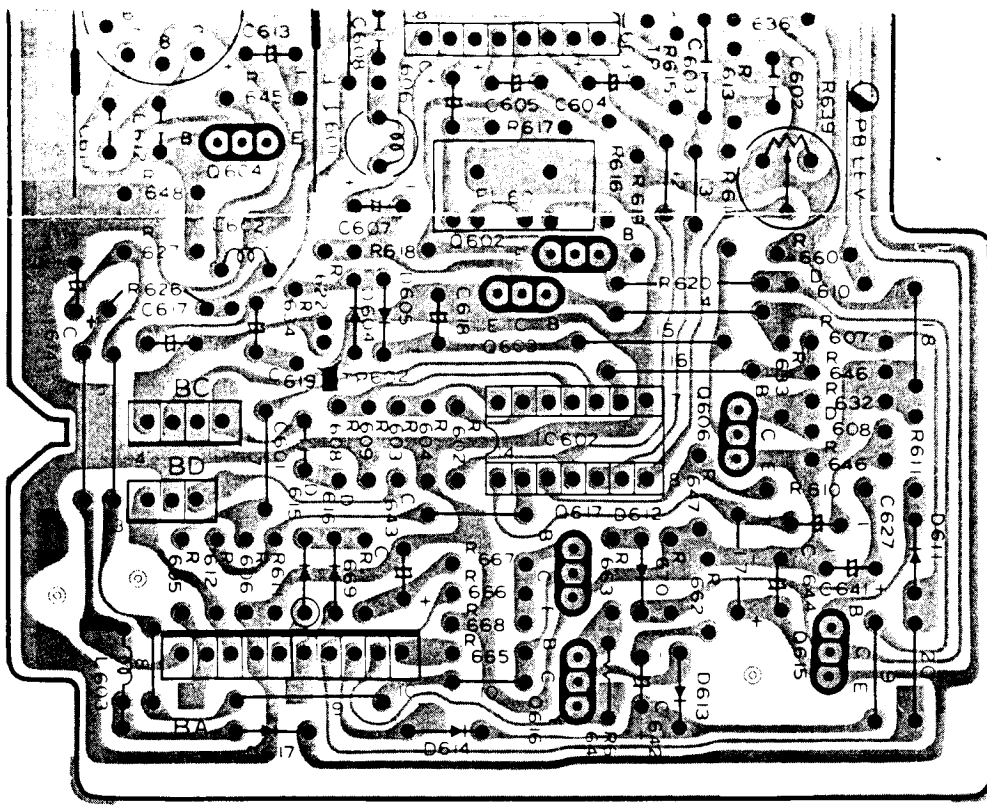


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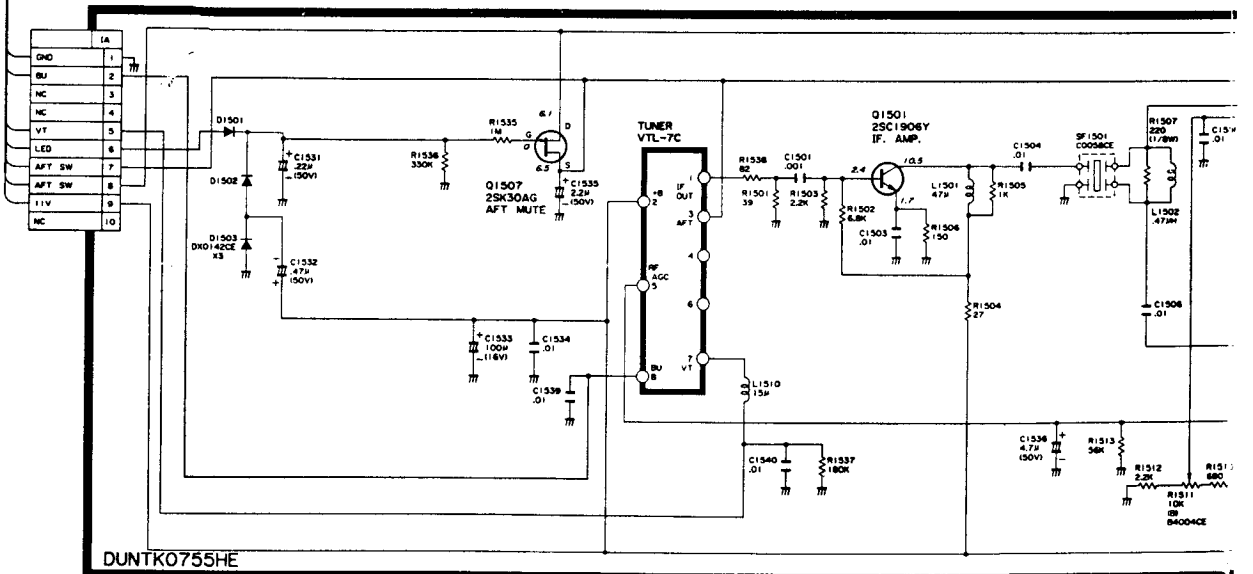
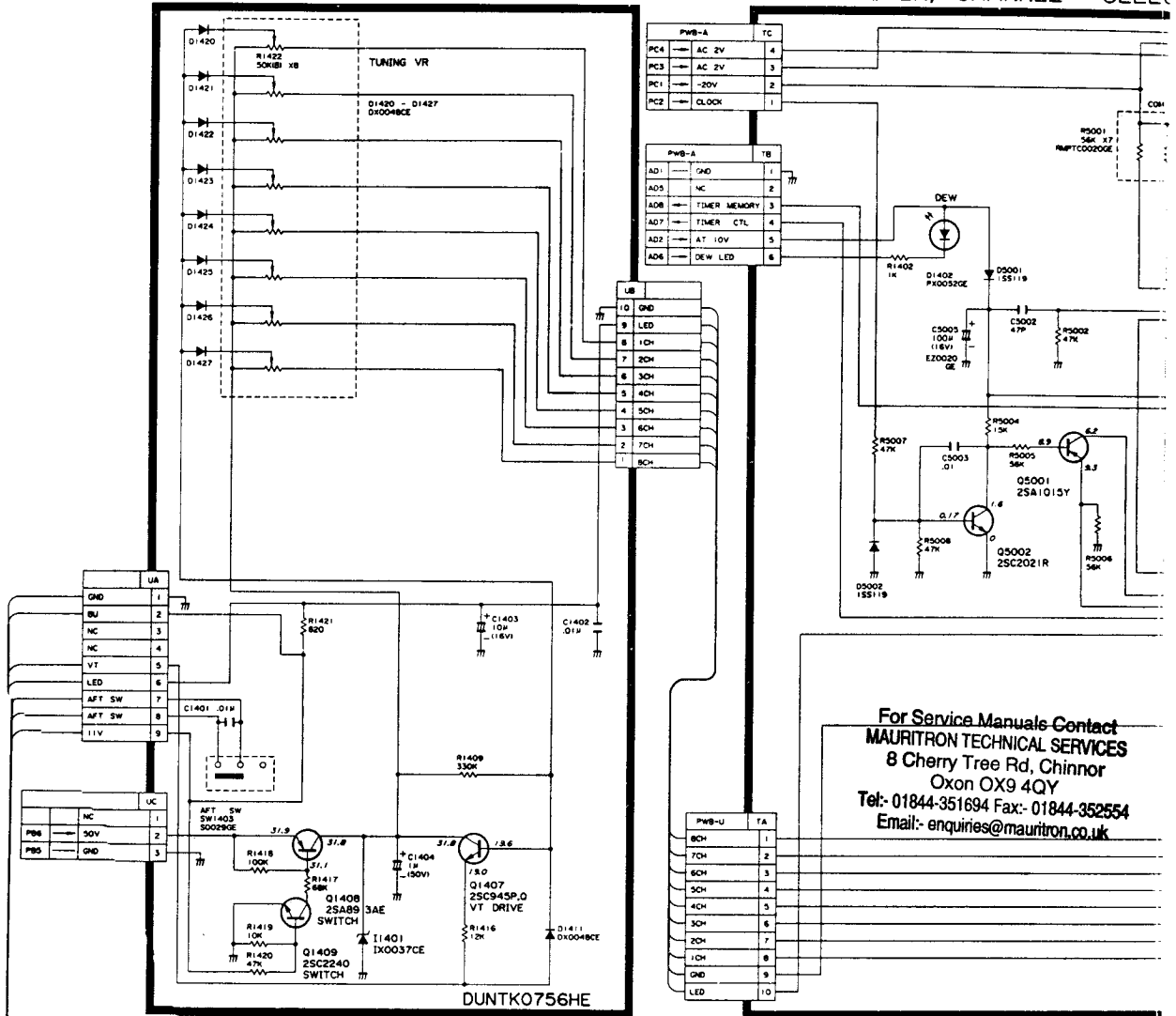
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PWB-I, IF CIRCUIT SCHEMATIC DIAGRAM (VC-381H,W/383H)
PWB-T, TIMER, CHANNEL SELECTOR CIRCUIT SCHEMATIC DIAGRAM (VC-381H,W)
PWB-U, CHANNEL TUNING CIRCUIT SCHEMATIC DIAGRAM (VC-381H,W/383H)

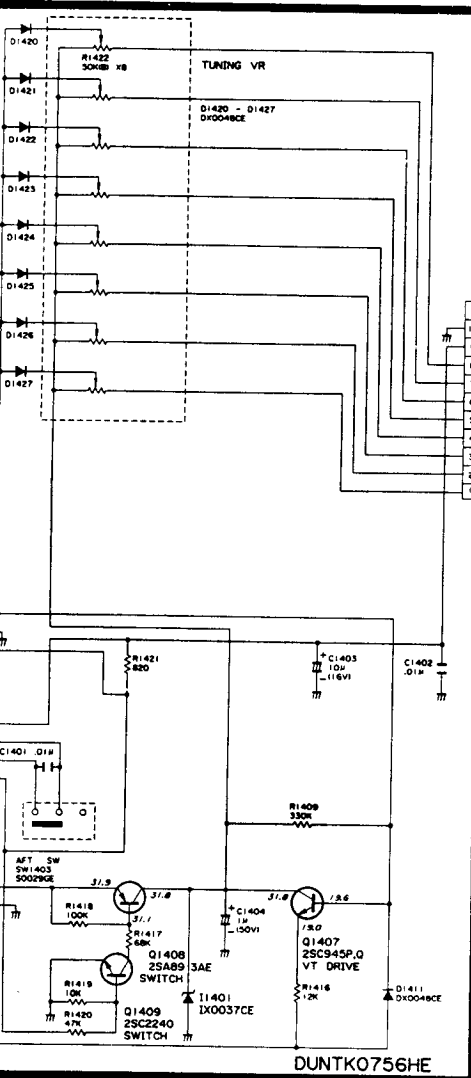
PWB-U CHANNEL TUNING

PWB-T TIMER, CHANNEL SELEC

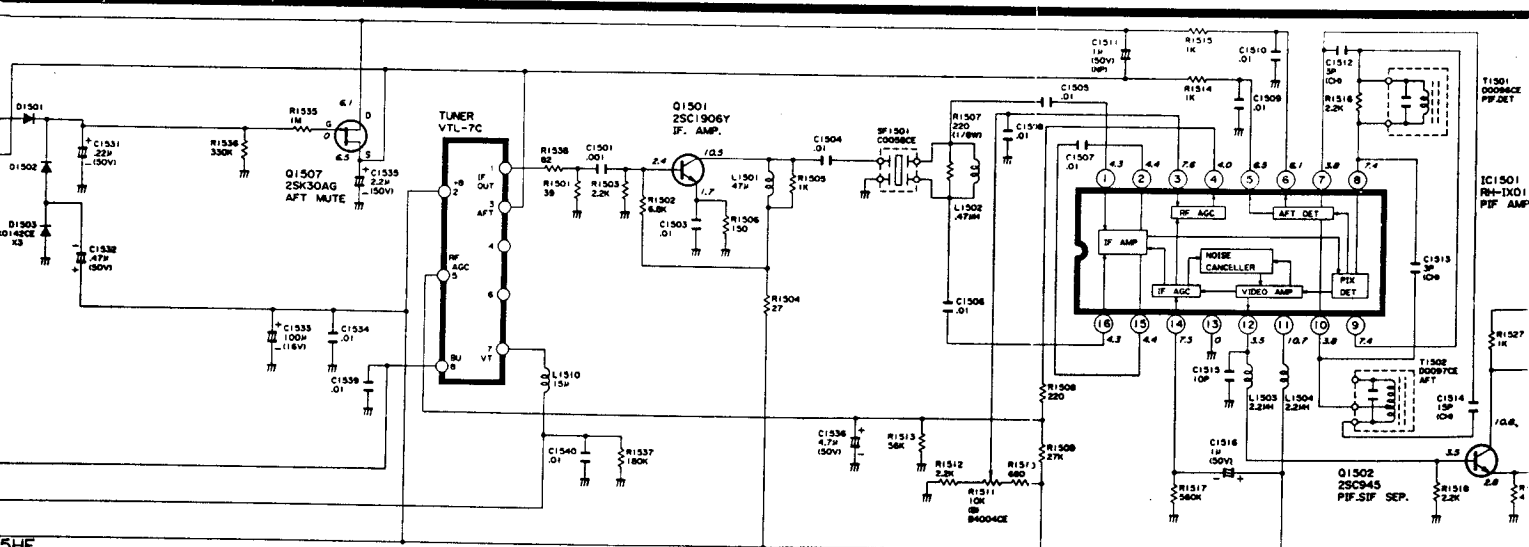
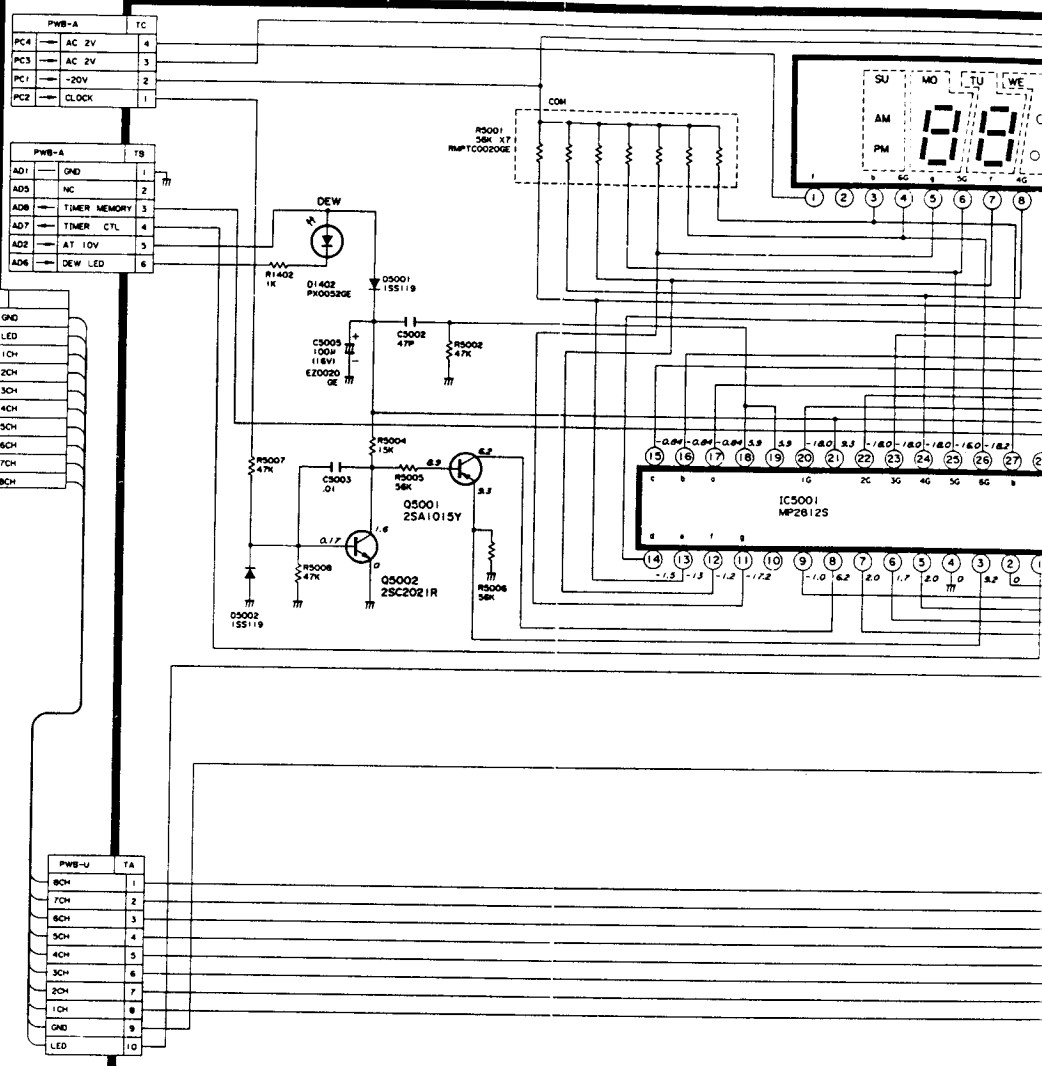


IC DIAGRAM (VC-381H,W/383H)
 SELECTOR CIRCUIT SCHEMATIC DIAGRAM (VC-381H,W)
 CIRCUIT SCHEMATIC DIAGRAM (VC-381H,W/383H)

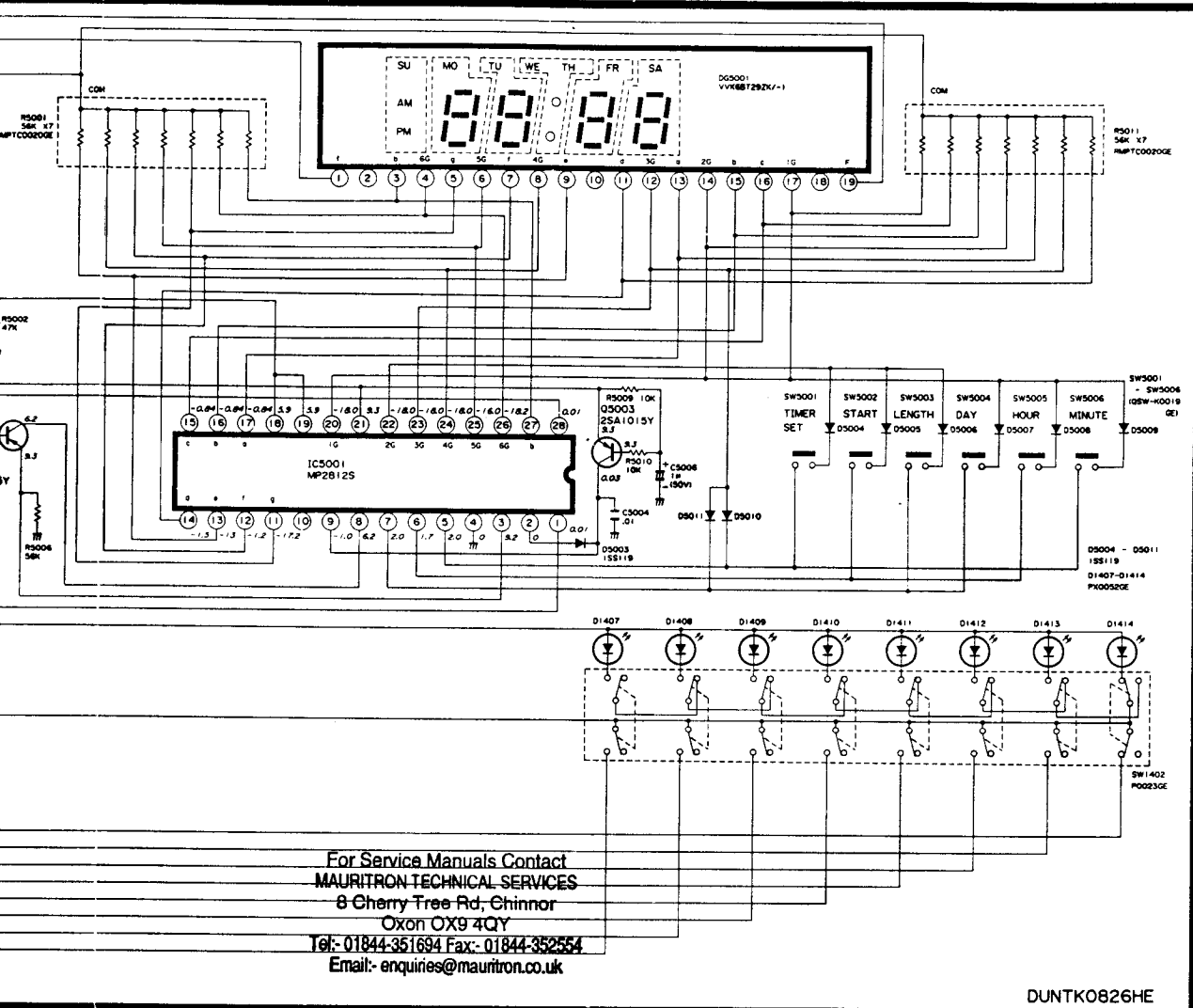
VB-U CHANNEL TUNING



PWB-T TIMER, CHANNEL SELECTOR, CIRCUIT



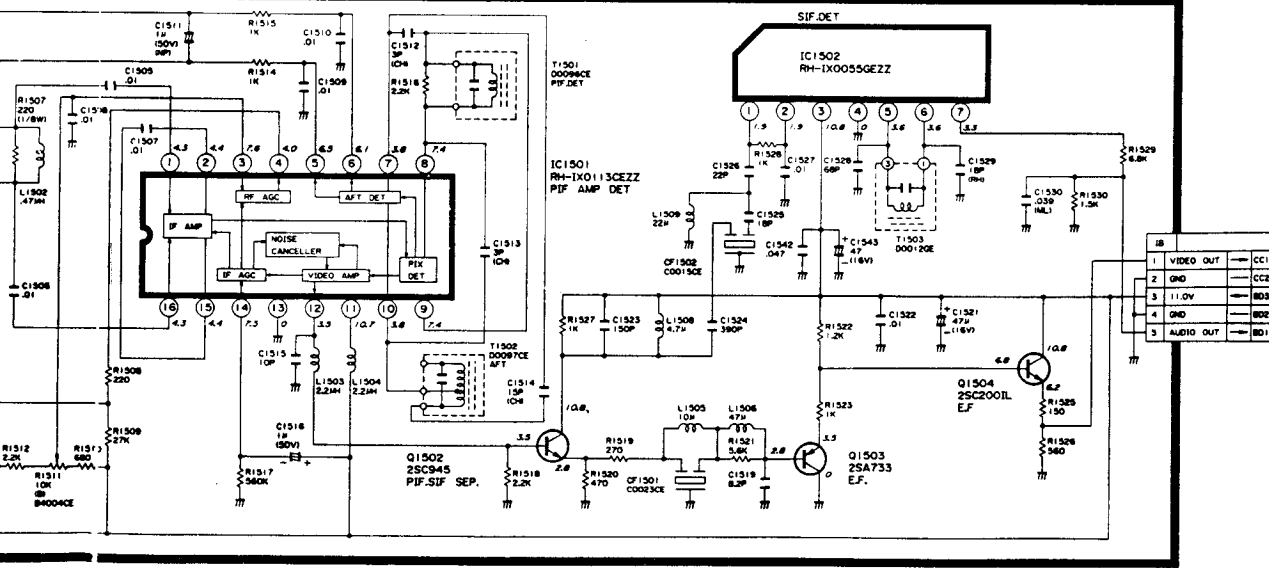
SELECTER, CIRCUIT



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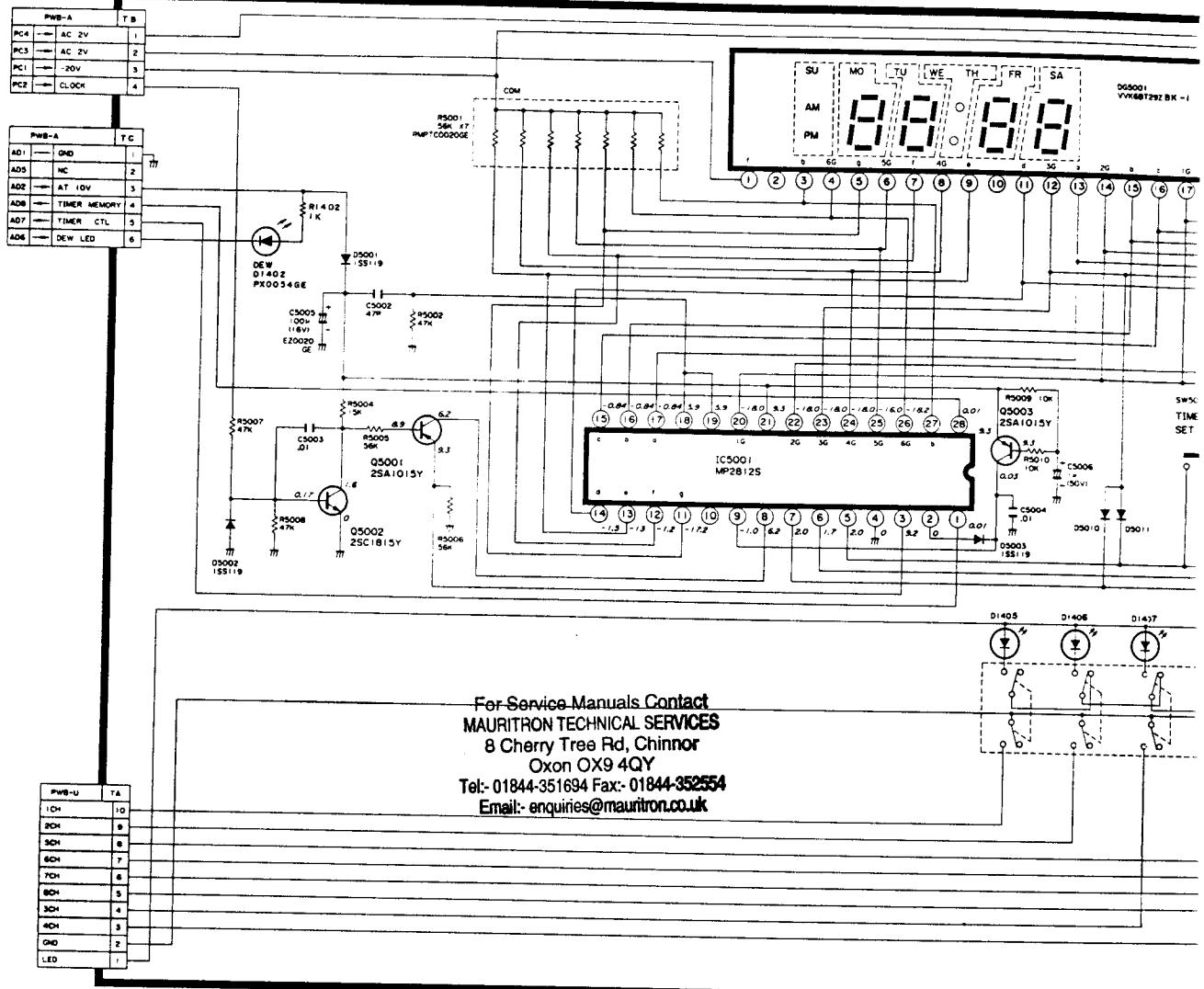
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PWB-IRF/IF

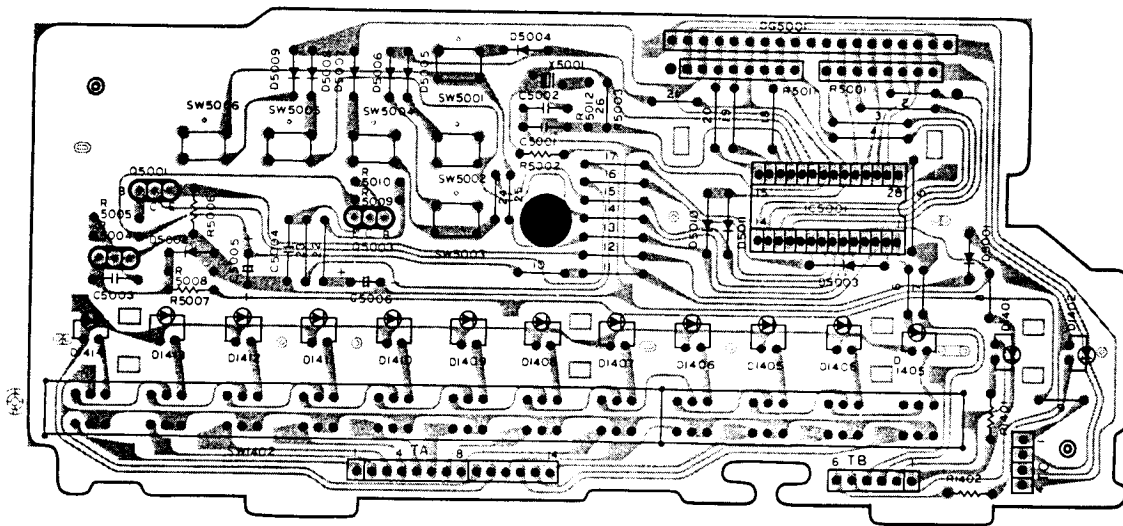


PWB-T, TIMER, CHANNEL SELECTOR CIRCUIT SCHEMATIC DIAGRAM (VC-383H)

PWB-T TIMER, CHANNEL SELECTOR, CIRCUIT



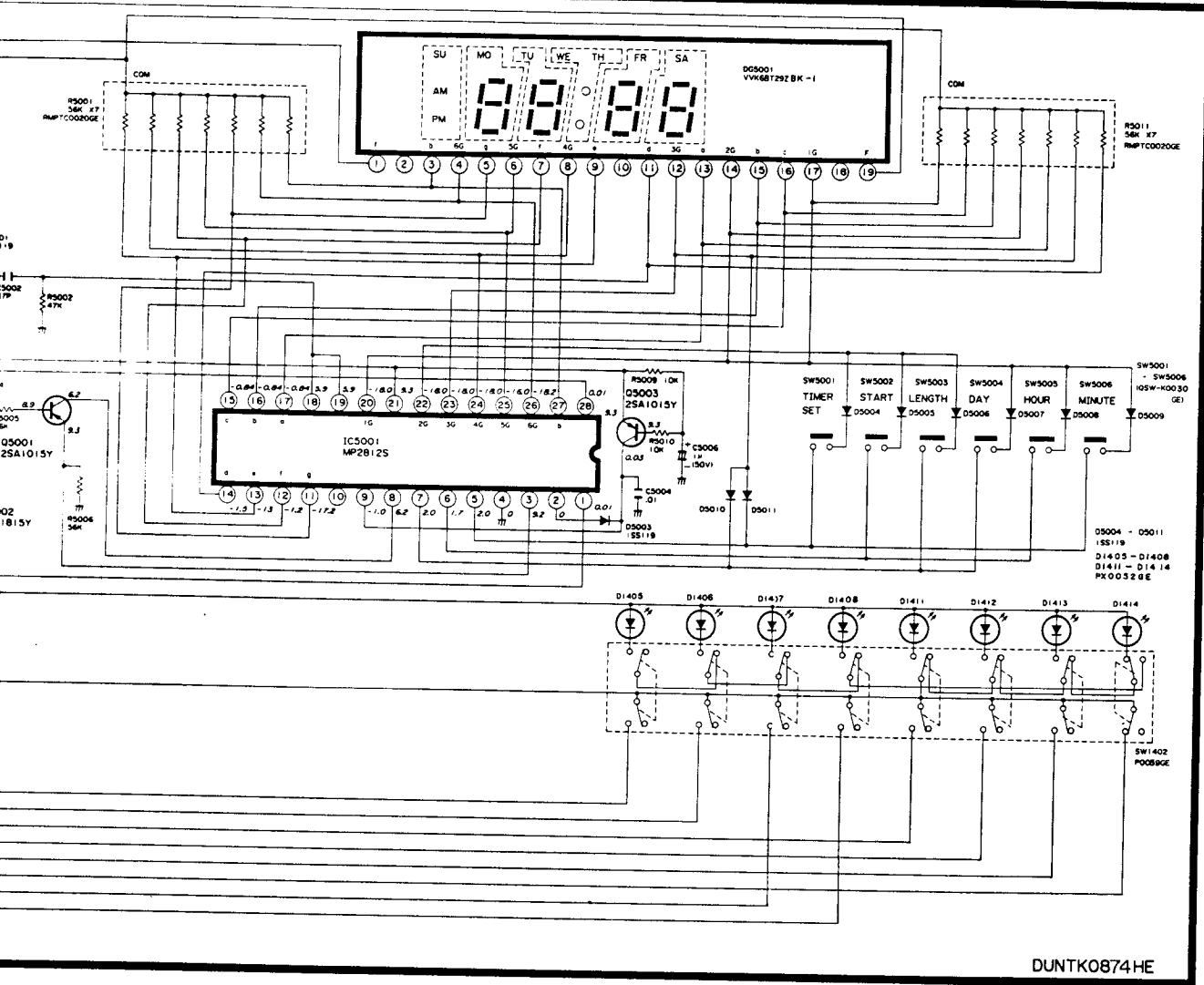
PWB-T, TIMER, CHANNEL SELECTOR CIRCUIT WIRING SIDE PWB (VC-381H,W)



CIRCUIT SCHEMATIC DIAGRAM (VC-383H)

CHANNEL SELECTOR, CIRCUIT

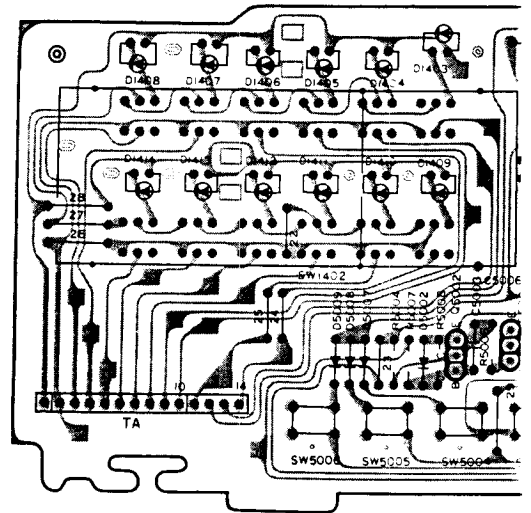
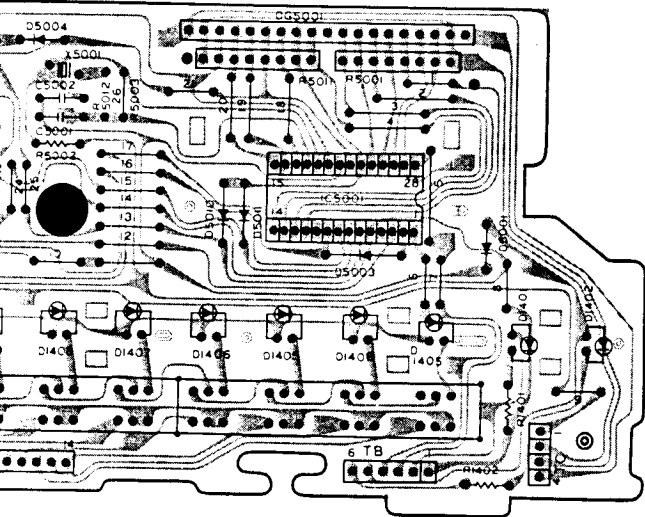
VC-383 H



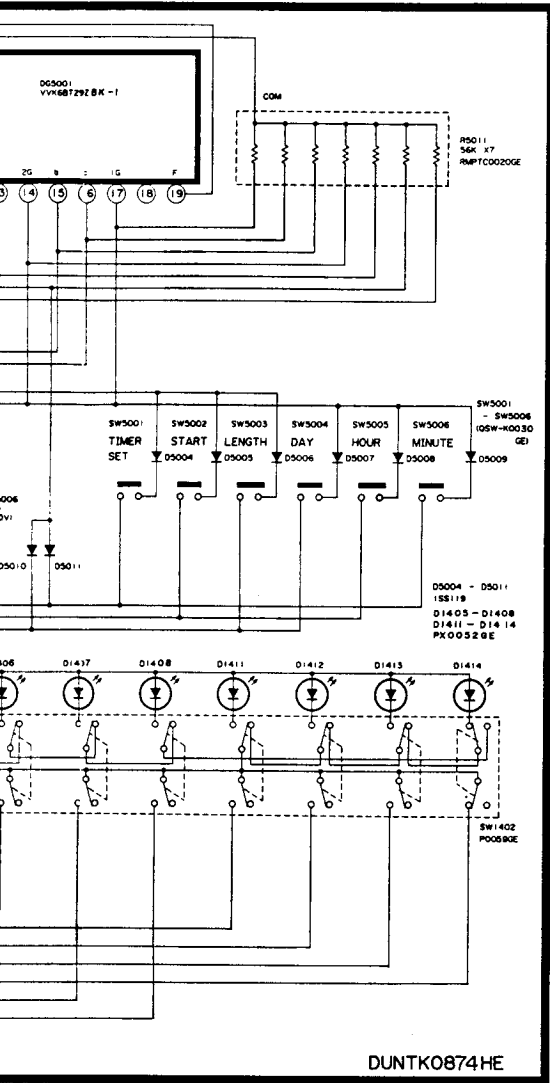
DUNTK0874HE

CIRCUIT WIRING SIDE PWB (VC-381H,W)

PWB-T, TIMER, CHANNEL SELECTOR CIRCUIT



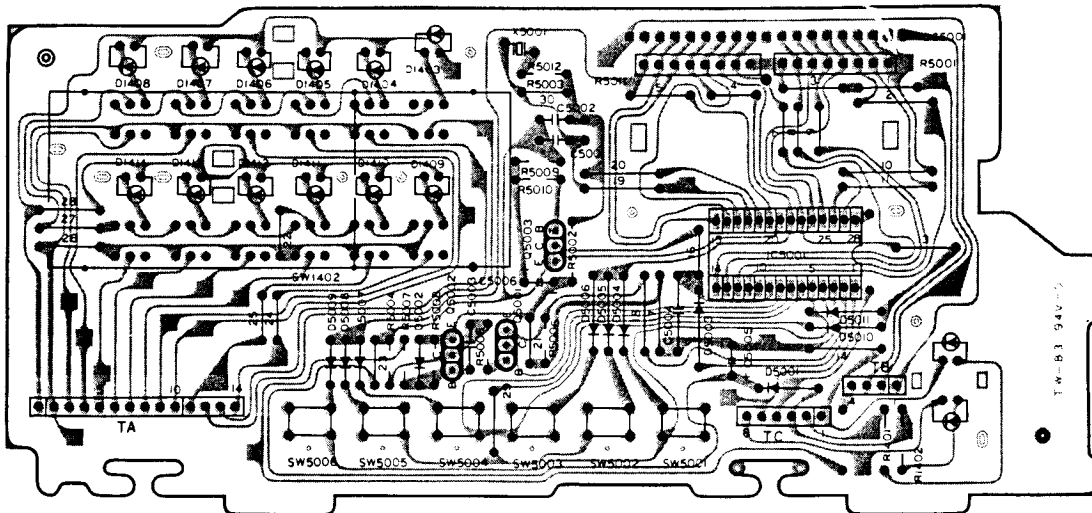
VC-383 H



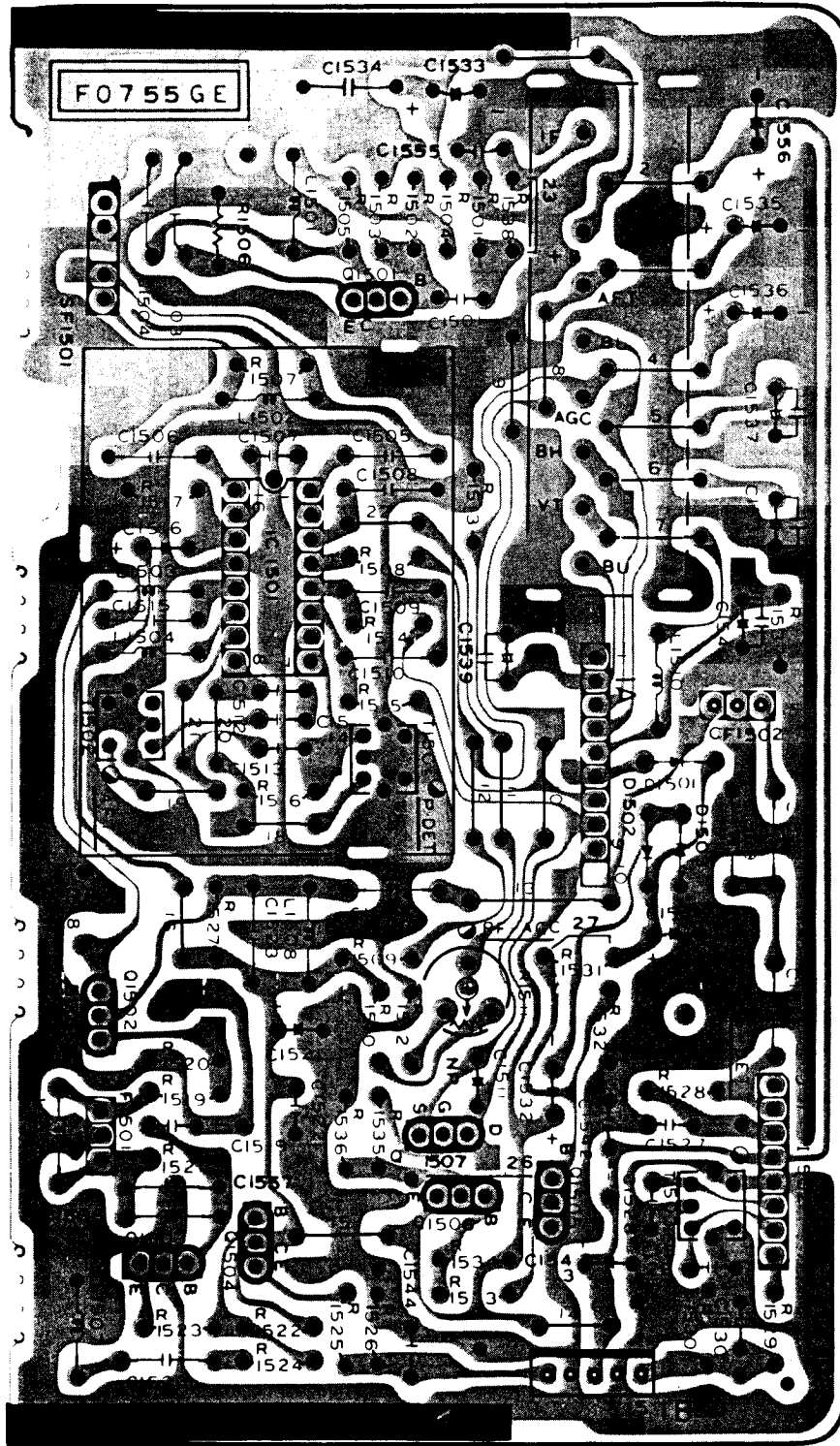
DUNTK0874HE

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PWB-T, TIMER, CHANNEL SELECTOR CIRCUIT WIRING SIDE PWB (VC-383H)



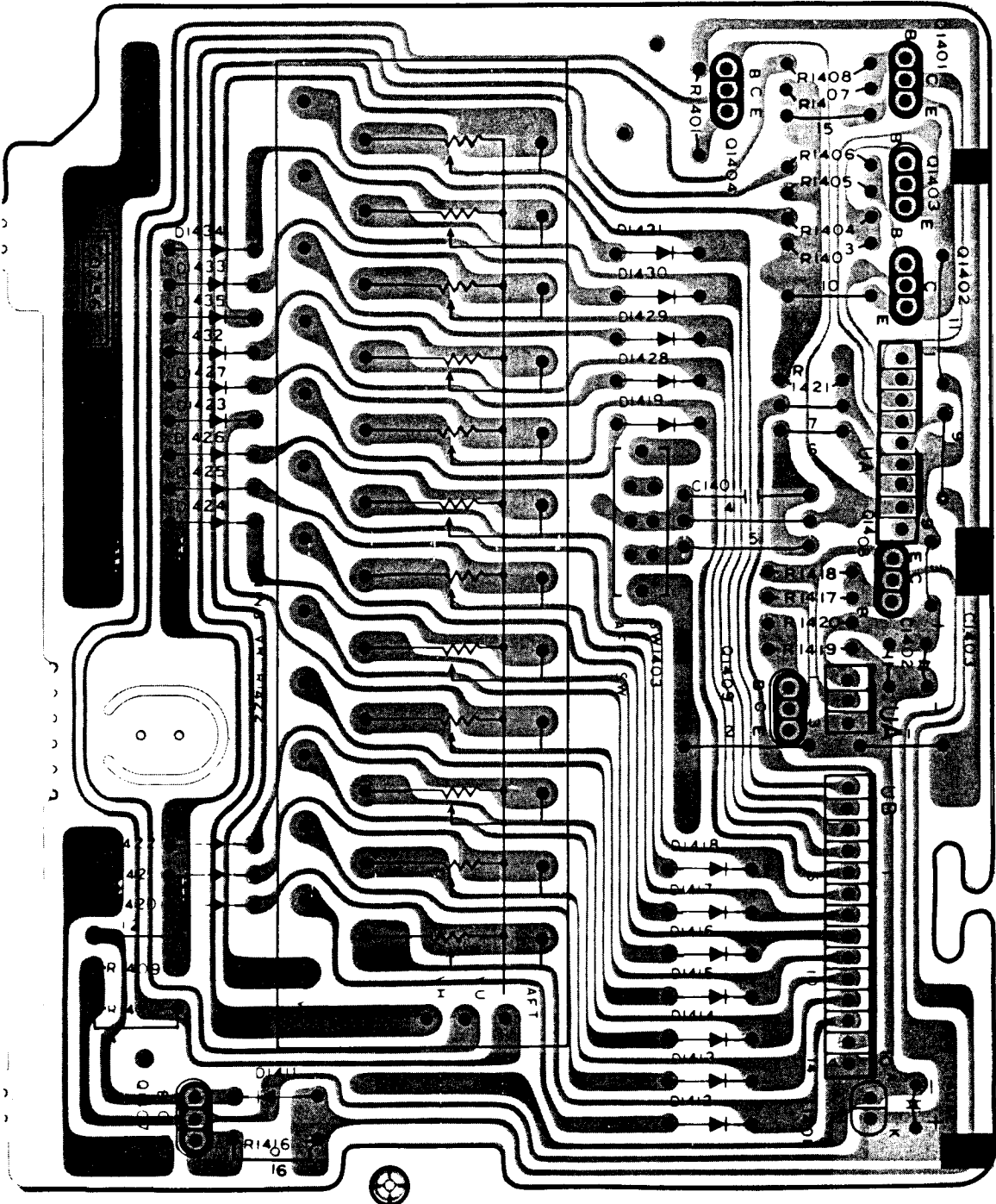
PWB-I, IF CIRCUIT WIRING SIDE PWB (VC-381H,W/383H)



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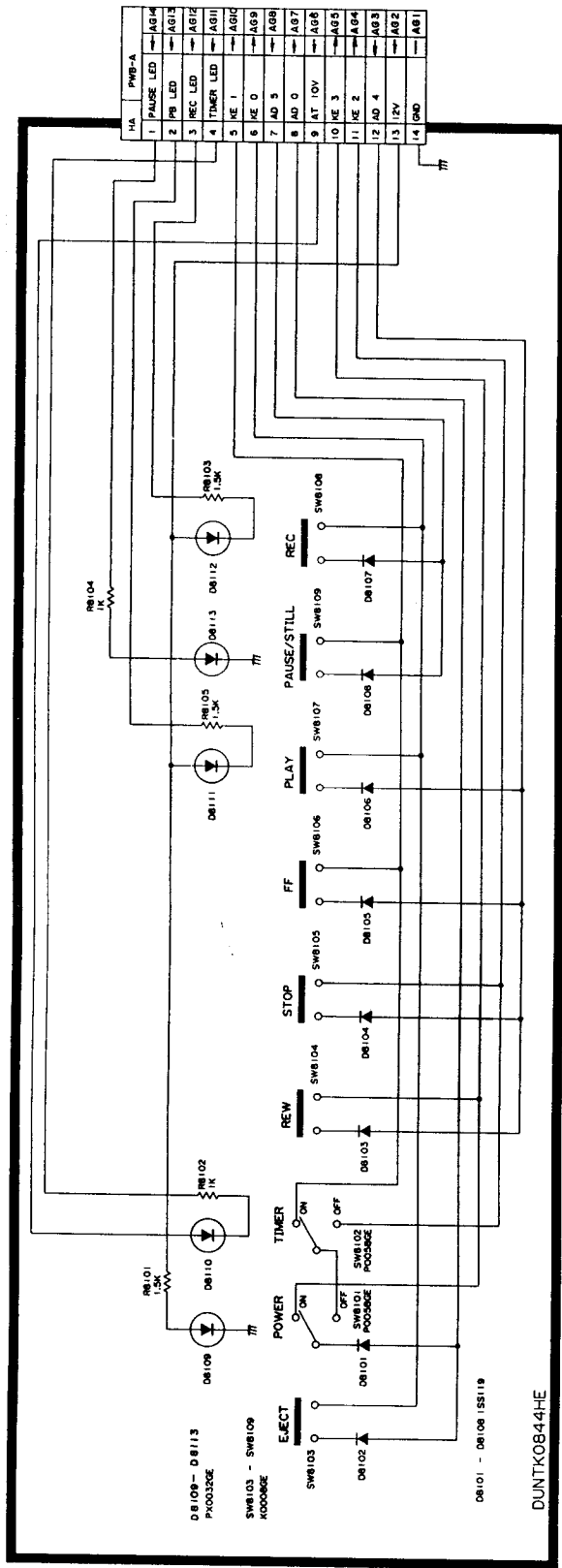
PWB-U, CHANNEL TUNING CIRCUIT WIRING SIDE PWB (VC-381H,W/383H)

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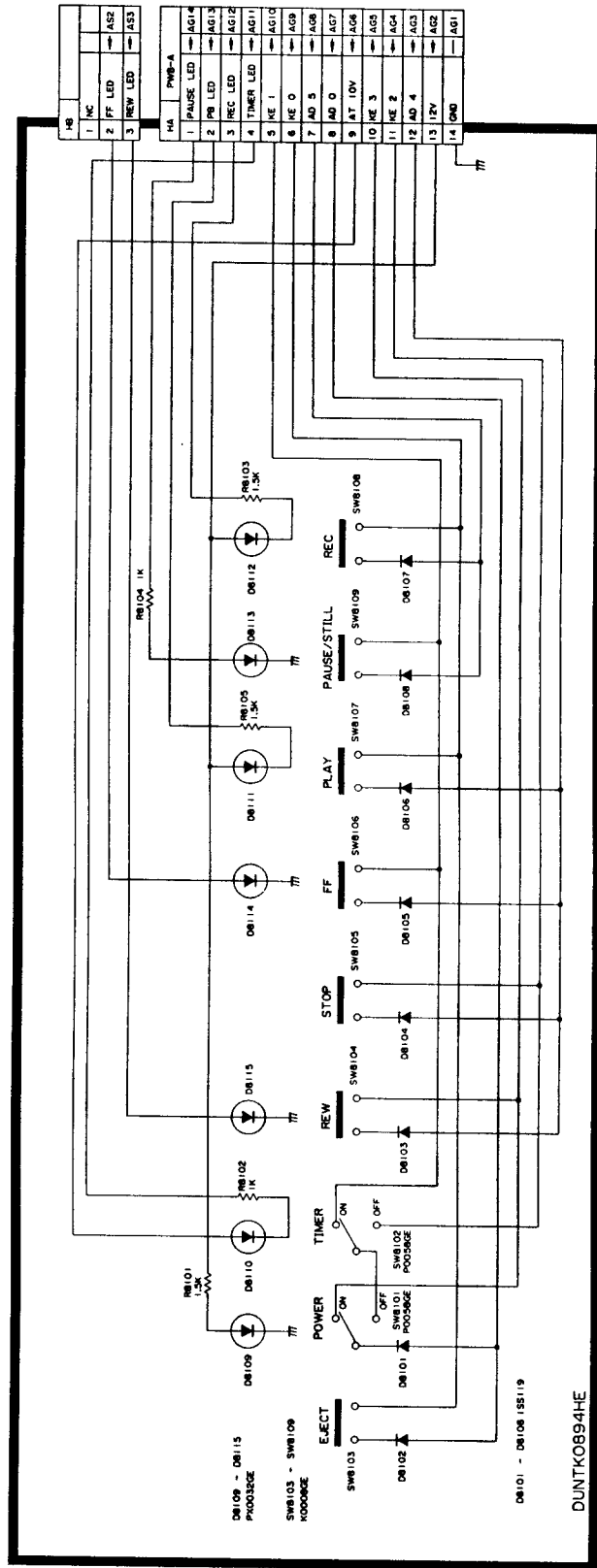


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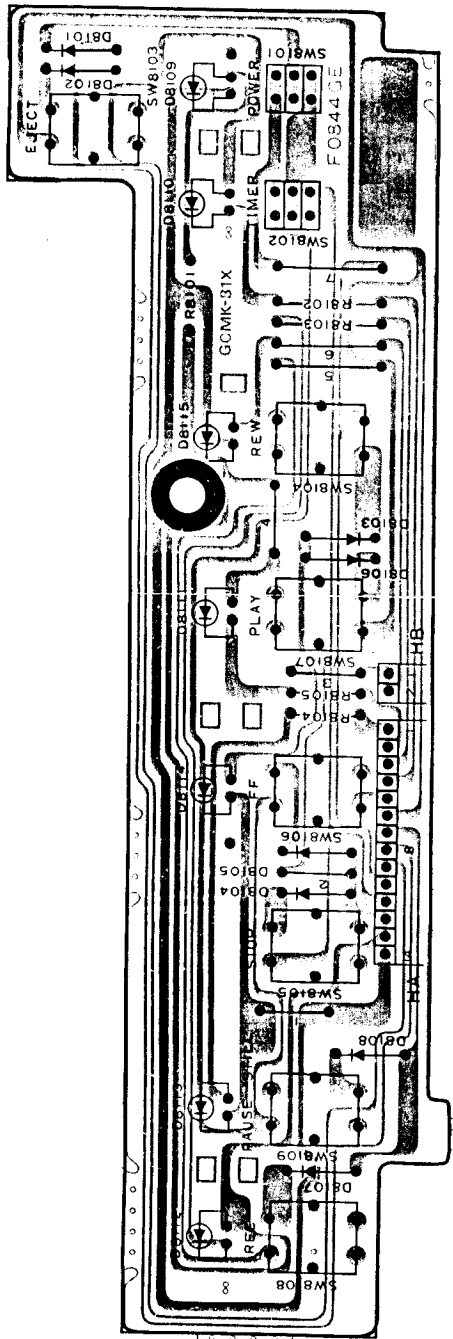
PWB-H, MECHANICAL SWITCH CIRCUIT SCHEMATIC DIAGRAM (VC-381H,W)



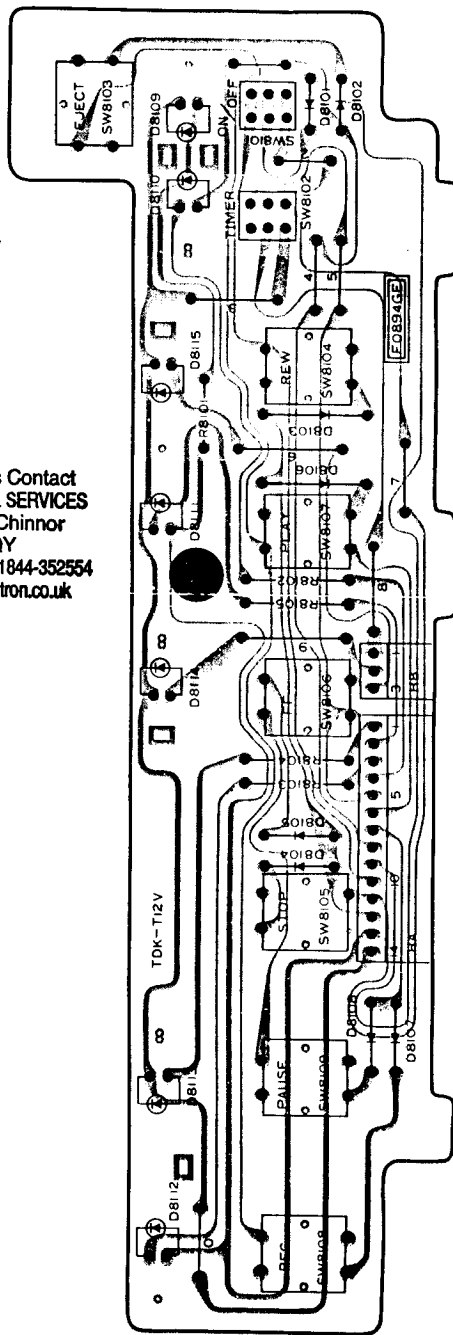
PWB-H, MECHANICAL SWITCH CIRCUIT SCHEMATIC DIAGRAM (VC-383H)



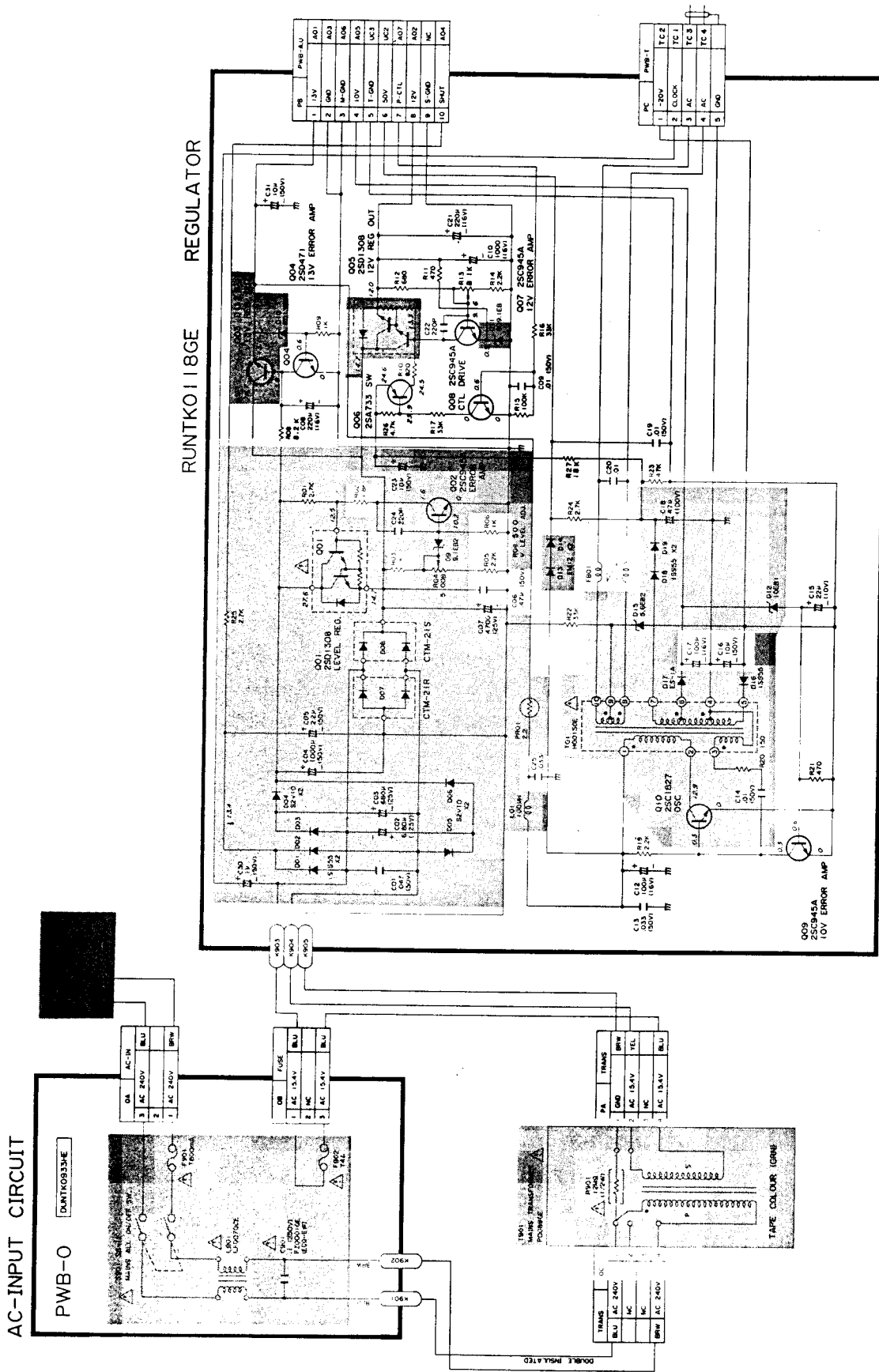
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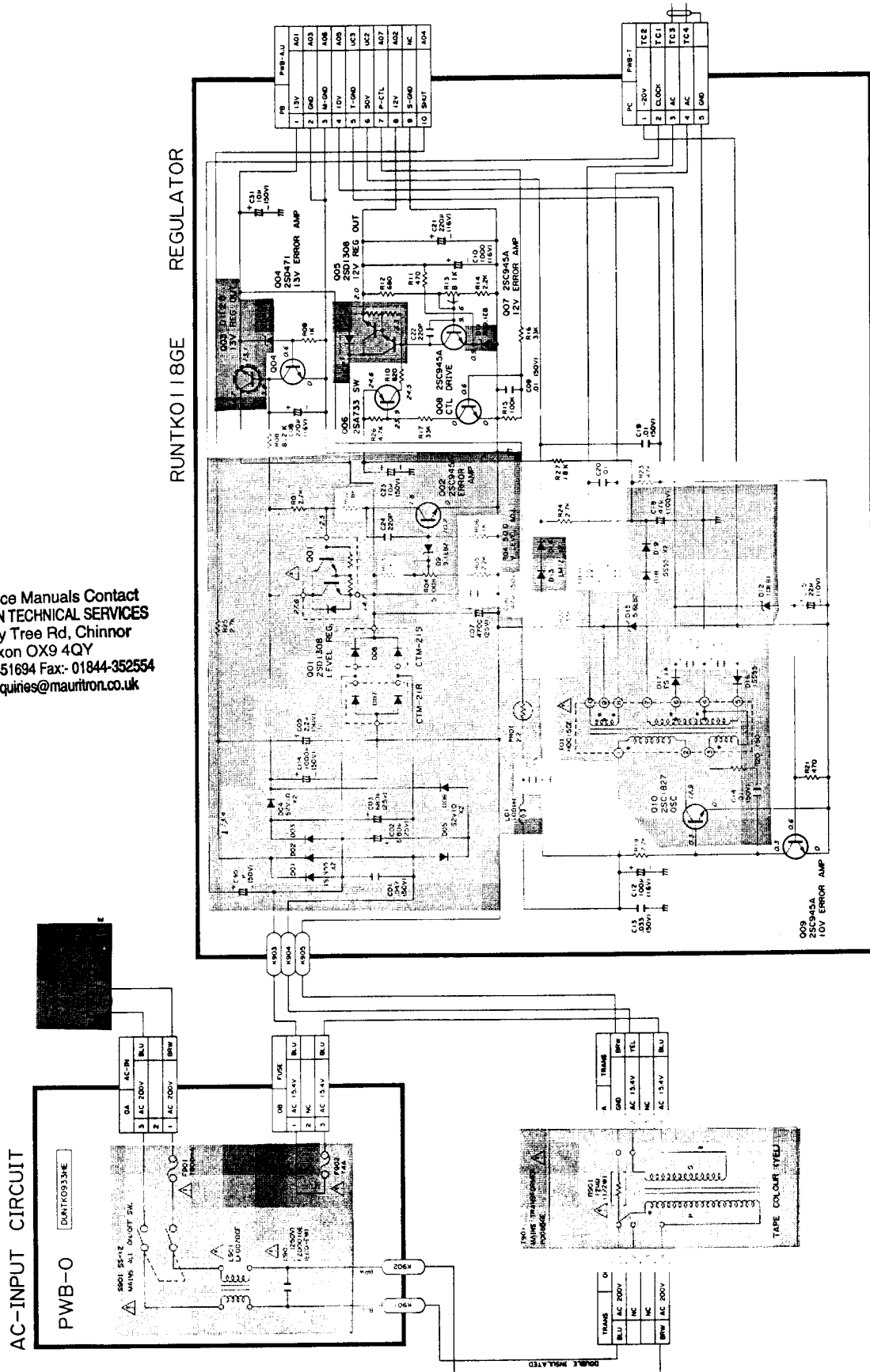


PWB-O, POWER CIRCUIT SCHEMATIC DIAGRAM (VC-381H/383H)
 PWB-P, CHOPPER REGULATOR CIRCUIT SCHEMATIC DIAGRAM (VC-381H/383H)



PWB-O, POWER CIRCUIT SCHEMATIC DIAGRAM (VC-381W)
 PWB-P, CHOPPER REGULATOR CIRCUIT SCHEMATIC DIAGRAM (VC-381W)

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RUNTKO118GE REGULATOR

AC-INPUT CIRCUIT

PWB-O

DA AC-1N
 3 AC 200V
 2 AC 15.4V
 1 AC 200V

DB FUSE
 1 AC 15.4V
 2 AC 15.4V
 3 AC 15.4V

TRANS
 BLU AC 200V
 AC
 AC
 BRW AC 200V

TRANS
 BRW
 AC 15.4V
 TEL
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 AC 15.4V

TRANS
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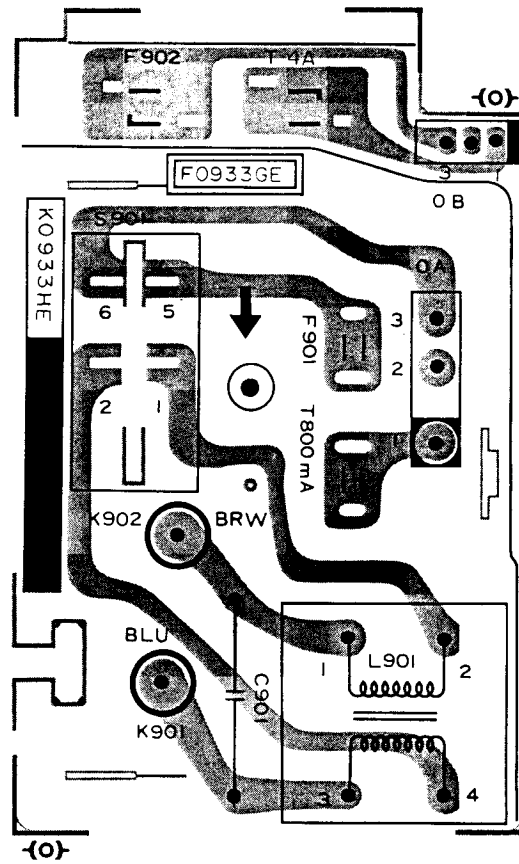
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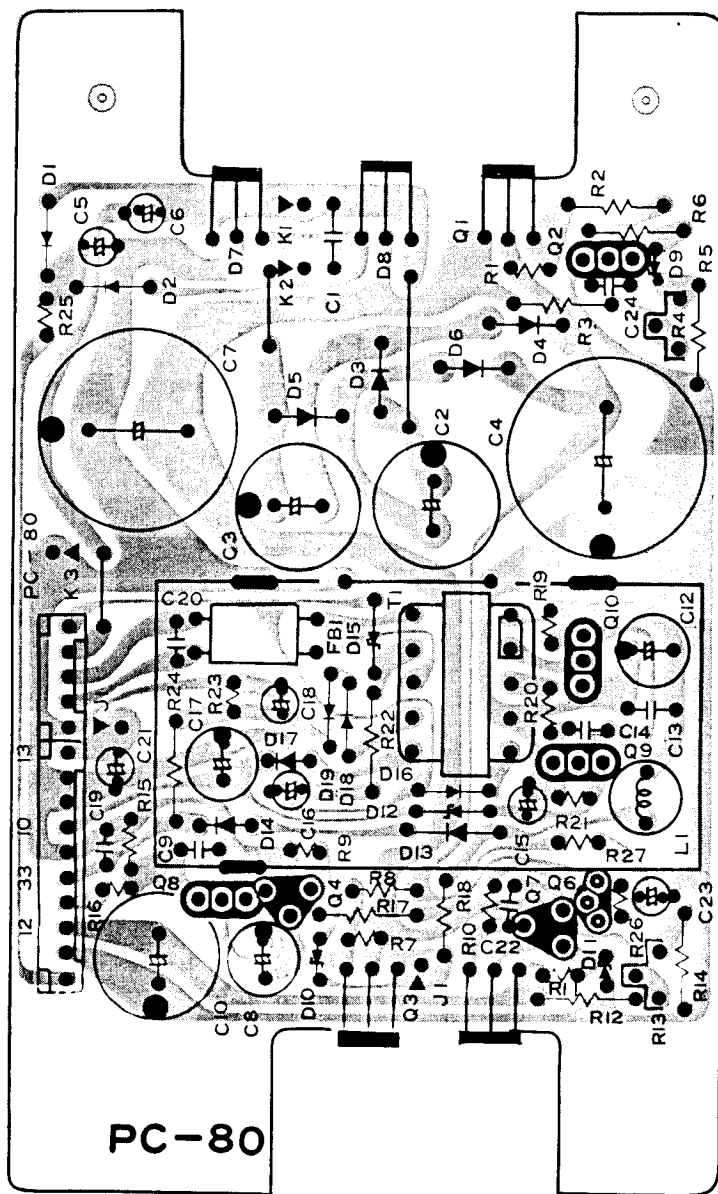
PWB-O, POWER CIRCUIT WIRING SIDE PWB (VC-381H,W/383H)



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PWB-P, CHOPPER REGULATOR CIRCUIT WIRING SIDE PWB (VC-381H,W/383H)

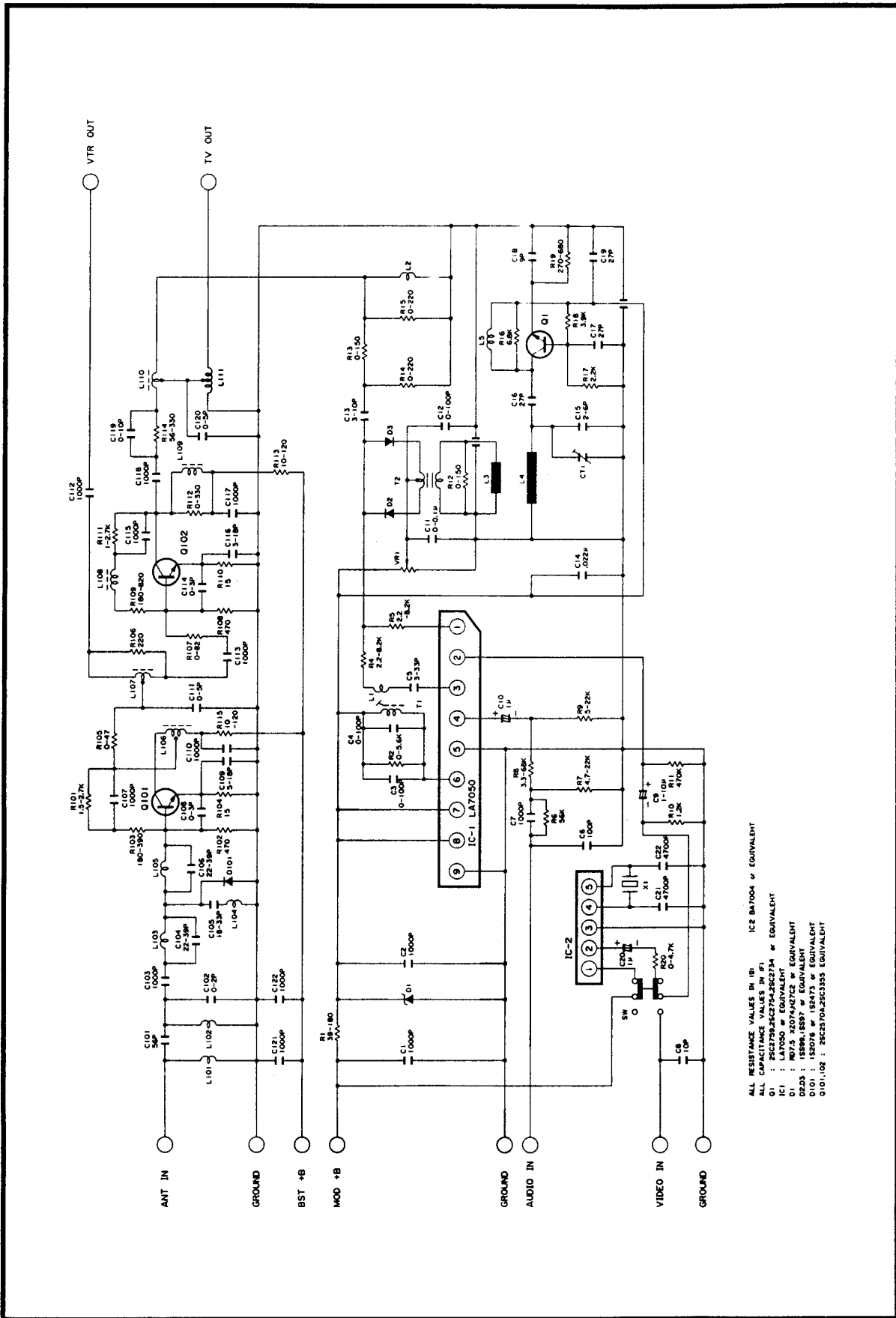
A
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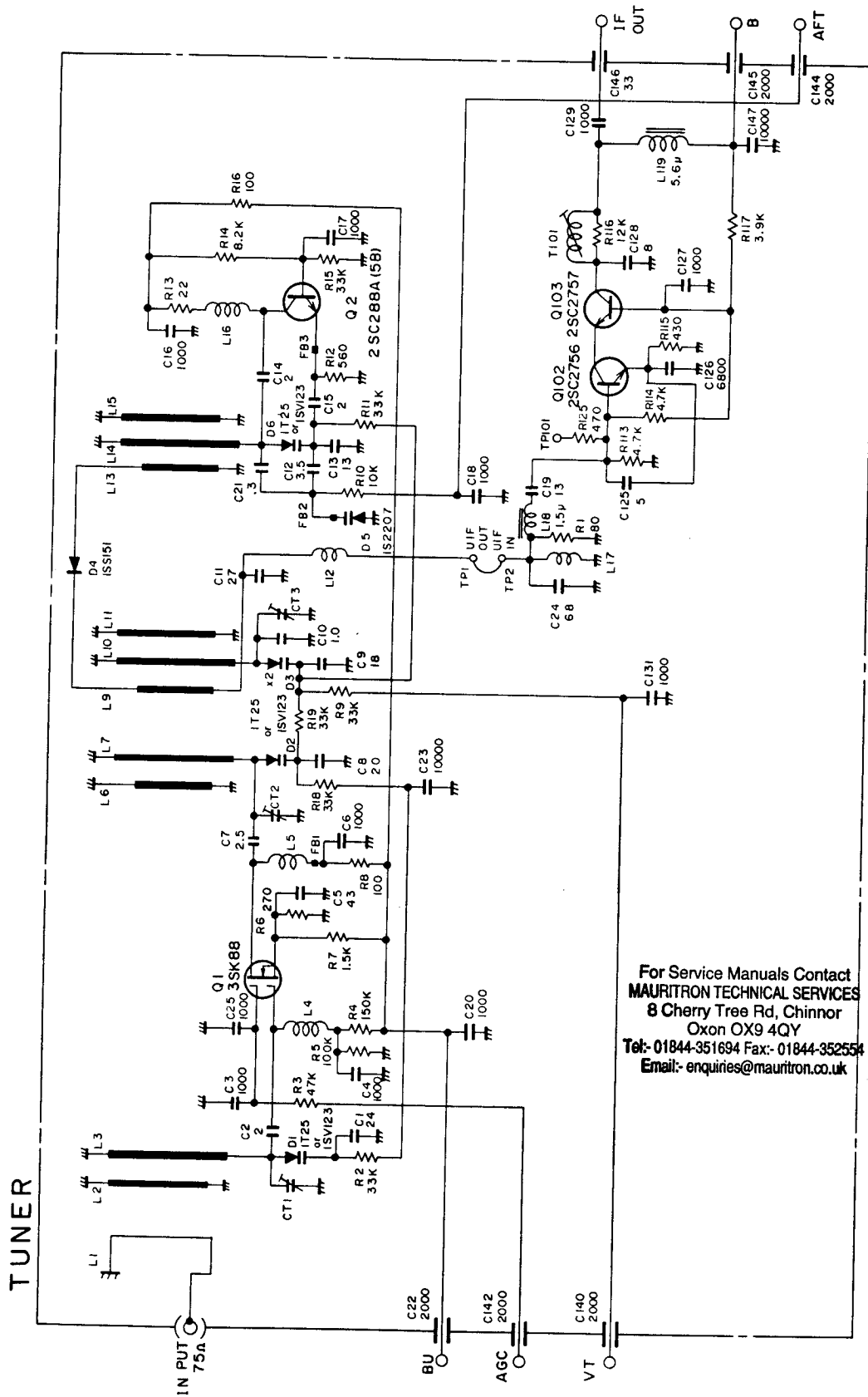
MODULATOR SCHEMATIC DIAGRAM (VC-381H,W/383H)

MODULATOR



ALL RESISTANCE VALUES IN Ω IC2 BA7004 & EQUIVALENT
 ALL CAPACITANCE VALUES IN μ F
 Q1 : 2SC2750/2SC2754/2SC2754 & EQUIVALENT
 IC1 : LA7050 & EQUIVALENT
 D101 : 152076 & EQUIVALENT
 D102 : 152076 & EQUIVALENT
 D103 : 152076 & EQUIVALENT
 D104 : 152076 & EQUIVALENT
 D105 : 152076 & EQUIVALENT
 D106 : 152076 & EQUIVALENT
 D107 : 152076 & EQUIVALENT
 D108 : 152076 & EQUIVALENT
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 D196 : 152076 & EQUIVALENT
 D197 : 152076 & EQUIVALENT
 D198 : 152076 & EQUIVALENT
 D199 : 152076 & EQUIVALENT
 D200 : 152076 & EQUIVALENT

TUNER SCHEMATIC DIAGRAM (VC-381H,W/383H)



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REPLACEMENT PARTS LIST

It is recommended to use genuine factory SHARP replacement parts to assure fine performance.

"How to order Replacement Parts"

To have your order filled promptly and correct, please furnish the following informations.

- | | |
|-------------------|----------------|
| 1. Modell Number. | 2. Ref. No. |
| 3. Part No. | 4. Description |

NOTE: Marked Δ : Safety Related Parts.

Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
PRINTED WIRING BOARD ASS'Y (NOT REPLACEMENT ITEM)				Q714	VHi DTC144F / - 1	Ctl-P Amp (DTC144F)	AC
				Q715	VHi DTC144F / - 1	Ctl-P VS Level Shift (DTC144F)	AC
				Q719	VS2SC2021 - R - 1	Drum Mute (2SC2021)	AB
				Q721	VS2SD468 - C / - 1	Noise Reduction (2SD468)	AD
				Q722	VHi DTA124F / - 1	VS-FF SW (DTA124F)	AC
				Q723	VHi DTA124F / - 1	VS-REW SW (DTA124F)	AC
				Q724	VHi DTA124F / - 1	NS SW (DTA124F)	AC
				Q725,	VHi DTC124F / - 1	INVERTER (DTC124F)	AC
				728			
PWB-A	DUNK0871HE01	Mechanical Control Circuit (VC-383H)	—	DIODES D704, VHD1SS119 / - 1 Diode AB 710, 713, 715, 720, 722, 724, 725, 727, 731, 732, 740, 801, 810, 820, 822, 827, 830, 7002, 7014, 7017, 7019, 7753, 7755, 7757, 7762 D723, RH- DX0028GEZZ Diode Array AC 726 INTERGRATED CIRCUITS IC701 VHi i R3P08 / - 1 IC Drum Servo AV IC703 VHi i R3P06 / - 1 IC Capstan Servo AQ IC706 VHi STA471C / - 1 IC Transistor Array AQ IC801 RH- i X0077GEZZ IC Mecha Control LSI AX			
	DUNK0871HE02	Mechanical Control Circuit (VC-381H/W)	—				
PWB-B	DUNK0820HE00	Audio Circuit	—				
PWB-C	DUNK0809HE01	Video Chroma Head Amp Circuit	—				
PWB-H	DUNK0844HE00	Mechanical Switch Circuit (VC-381H/W)	—				
	DUNK0894HE00	Mechanical Switch Circuit (VC-383H)	—				
PWB-I	DUNK0755HE11	IF Circuit	—				
PWB-O	DUNK0933HE00	Power Circuit	—				
PWB-T	DUNK0826HE02	Timer Channel Selector Circuit (VC-381H/W)	—				
	DUNK0874HE00	Timer Channel Selector Circuit (VC-383H)	—				
PWB-U	DUNK0756HE05	Channel Tuning Circuit	—				
	RUNK0118GEZZ	Chopper Regulator	—				
PWB-A							
TRANSISTORS							
Q701	VS2SC945APQ1E	VS-Sync. Amp (2SC945)	AB				
Q702, 703	VS2SC945APQ1E	Mono Multi (2SC945)	AB				
Q707	VS2SC945APQ1E	Still-Brake (2SC945)	AB				
Q710	VS2SC945APQ1E	CAP-Drive (2SC945)	AB				
Q711	VS2SC945APQ1E	Drum P.G. (2SC945)	AB				
Q712	VS2SC945APQ1E	Capstan F.G. Amp (2SC945)	AB				
Q713	VS2SC945APQ1E	Control Amp (2SC945)	AB				
Q716	VS2SC945APQ1E	Low Pass, Filter (2SC945)	AB				
Q717	VS2SC945APQ1E	Amp (2SC945)	AB				
Q801	VS2SC945APQ1E	Dew-Amp (2SC945)	AB				
Q802	VS2SC1815YWE	Dew-Amp (2SC1815Y)	AB				
Q806	VS2SA950 - Y / 1E	PB Switching (2SA950Y)	AE				
Q807	VS2SA950 - Y / 1E	Rec Switching (2SA950Y)	AE				
Q808	VS2SC2021 - R - 1	Shutt OFF Amp (2SC2021)	AB				
Q811	VS2SC945APQ1E	Remote VS-FF (2SC945)	AB				
Q812	VC2SC945APQ1E	Remote VS-FF (2SC945)	AB				
Q813	VS2SC945APQ1E	CTL-P Amp (2SC945)	AB				
Q7001	VS2SC945APQ1E	Still-H Amp (2SC945)	AB				
Q7751	VHi DTC144F / - 1	Reel VS AFC Switch (DTC144F)	AC				
Q7752, 7753	VS2SC945APQ1E	Reel-VS AFC (2SC945)	AB				
Q7754	VS2SA733APQ1E	Reel-M Drive (2SA733)	AC				
Q7755	VS2SA733APQ1E	Reel-M Drive (2SA733)	AC				
Q7757	VS2SC945APQ1E	Reel-M UL INV (2SC945)	AB				
Q704, 705	VS2SK30AG / / 1E	Phase Compensation (2SK30AG)	AD				
Q709	VHi DTC144FX - 1	Cap-Mute (DTC144F)	AC				

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Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
IC802	VHi R3403 / - 1	IC Inverter	AK	COILS & TRANSFORMERS			
IC803	VHi M54532P / - 1	IC Inverter	AK	L4401	VP - MK820K0000	82μH	AB
IC804, 7754	VHi R2403 / - 1	IC Inverter	AK				
IC805, 7003, 7004	VHi TC4081BP - 1	IC AND Gate	AF	MISCELLANEOUS			
IC806	VHi UMP C339 / - 1	IC Comparater	AH	RY801, 802, 7751	RRLYZ0016GEZZ	Relay	AN
IC7001	VHi TC4013BP - 1	IC H-Switching Pulse Inverter	AL				
IC7002	VHi HD14538 / - 1	IC FV Multe Control Delay	AR	SW2201	QSW S0020GEZZ	Switch	AG
IC7752	RH - i Z0003GEZZ	IC Reel Servo	AX				
IC7753	VHi NJM4558D - 1	IC DC Amp	AH				
CAPACITORS				AD	QJKNBK1017GESA	Knob, Tracking	AC
C713 C721, 722, 7758 C727, 738 C762 C803 C815, 818 C7005 C7008 C7010 C7756	RC - QZA273TAYJ	.027μF, 50V, 5%, Malar	AB	AH	QPLGN0913GEZZ	Plug	AB
	VCFCSH1HA563J	.056μF, 50V, 5%, Malay	AB	PWB-B			
	VCSATA1CE106M	10μF, 16V, 10%, Tantul	AD	TRANSISTORS			
	RC - QZA472TAYJ	.0047μF, 50V, 5%, Mylar	AB	Q602	VS2SC2001 - L - 1	Muting (2SC2001)	AD
	VCEAAA1CW107M	100μF, 16V, Electrolytic	AB	Q603	VHi DTC124F / - 1	Muting (DTC124F)	AC
	VCEAAA1CW227M	220μF, 16V, Electrolytic	AC	Q604	VS2SC496 - Y / 1E	Bias Oscillator (2SC496Y)	AF
	RC - QZA222TAYJ	.0022μF, 50V, 5%, Mylar	AB	Q605	VS2SC2001 - L - 1	Switching (2SC2001)	AF
	RC - QZA122TAYJ	.0012μF, 50V, 5%, Mylar	AB	Q606	VS2SC945APQ1E	Muting (2SC945)	AB
	VCFCSH1HA274J	.27μF, 50V, 5%, Mylar	AD	Q607, 608	VS2SC2240BL1E	Switching (2SC2240BL)	AD
	VCE9EA1EW106M	10μF, 25V, Non Polar	AB	Q609	VS2SA970 - BL1E	Switching (2SA970BL)	AC
CONTROLS				INTERGRATED CIRCUITS			
R709	RVR - M7170TAZZ	100Kohm, Pot., BVF, OSC	AE	IC601	VHi AN262 / / / - 1	Audio Amp, Lifier	AM
R721	RVR - M7168TAZZ	47Kohm, Pot., Ch2 Phase	AE	IC602	VHi UPD4066B - 1	Switching	AL
R722	RVR - M7168TAZZ	47Kohm, Pot., Ch1 Phase	AE	DIODES			
R738	RVR - M7168TAZZ	47Kohm, Pot., Drum Lock	AE	D604, 608, 610, 617	VHD1SS119 / / - 1	Diode	AB
R723	RVR - M7170TAZZ	100Kohm, Pot., Rec Phase	AE				
R736	RVR - M7166TAZZ	22Kohm, Pot., D-VS REW Shift	AE				
R737	RVR - M7166TAZZ	22Kohm, Pot., D-VS FF Shift	AE				
R740	RVR - M7168TAZZ	47Kohm, Pot., Cap Lock	AE				
R750	RVR - B4084GEZZ	200Kohm, Pot., Traking	AD	CAPACITORS			
R751	RVR - M7170TAZZ	100Kohm, Pot., Traking Pre Set	AE	C601	VCE9AA1EW106M	10μF, 25V, Non Pouler	AC
R4405	RVR - B4083GEZZ	10Kohm, Picture Tone	AD	C610	VCQPSB2GA223K	.022μF, 400V, 10%, Polypropylen Film	AB
R7014	RVR - M7171TAZZ	220Kohm, Pot., VS FV	AE	C615	VCRYPA1HA681J	680pF, 50V, 5%, Ceramic	AB
R7015	RVR - M7171TAZZ	220Kohm, Pot., Still FV	AE	C618, 621, 644	RC - EZ0042GEZZ	100μF, 16V, Electrolytic	AC
R7016	RVR - M7171TAZZ	220Kohm, Pot., FV	AE	C620	VCEAAA1CW227M	220μF, 16V, Electrolytic	AC
R7021	RVR - B4200CEZZ	220Kohm, Pot., Still Pre Set	AC				
R7050	RVR - B4084GEZZ	200Kohm, Pot., Still Traking	AD	RESISTORS			
R7765	RVR - M7161TAZZ	3.3Kohm, Pot., Torque Adj	AE	R810, 811	VRS - PU3DB390J	39 ohm, 2W, 5%, Oxide Film	AA
R7770	RVR - M7169TAZZ	68Kohm, Pot., VS-Rew, Speed	AE				
R7778	RVR - M7169TAZZ	68Kohm, Pot., VS, FF, Speed	AE				

Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
RESISTOR							
R626	RR- XZ0026CEZZ	10ohm, Fuse Resistor	AB	Q507	VS2SC945APQ1E	Emitter Follower	AB
				Q508	VS2SC945APQ1E	Manual Colour Mode Switching	AB
				Q509	VS2SC945APQ1E	Emitter Follower	AB
				Q510	VS2SC945APQ1E	4.44MHz. Local OSC	AB
				Q511	VS2SC945APQ1E	Emitter Follower	AB
				Q512, 514	VS2SC945APQ1E	Amp	AB
COILS & TRANSFORMERS							
L601	RCiLP0002GEZZ	1mH	AC	Q202	VS2SC1959Y/1E	Video Signal Switching	AC
L602	VP- MK221K0000	220µH	AB	Q301, 302, 307, 308	VS2SC1959Y/1E	Video Head Switching	AC
L603	VP- DF221K0000	220µH	AB				
T601	RTRNH0016GEZZ	Bias Oscillator	AF	Q204	VS2SA733APQ/E	Emitter Follower	AC
FL601	RCiLF0006GEZZ	Filter	AK	Q304	VS2SA733APQ/E	Rec Amp	AC
				Q403	VS2SA733APQ/E	P.B Video Amp	AC
				Q513	VS2SC496-Y/1E	9V Regulator	AF
CONTROLS							
R624	RVR- B4198CEZZ	68Kohm, Pot., Red, Bias	AD	DIODES			
R639	RVR- B4006CEZZ	22Kohm, Pot., Play back Level	AC	D201	VHD1SS119// - 1	Diode	AB
				D202, 203	VHD1SS16-2/1E	Diode (1SS-16)	AC
MISCELLANEOUS							
BA	QPLGN1013GEZZ	Plug	AB	D301, 302, 401, 402, 403, 501, 503, 504, 506, 5503	VHD1SS119// - 1	Diode	AB
BB	QPLGN0813GEZZ	Plug	AB				
BC	QPLGN0413GEZZ	Plug	AB				
BD	QPLGN0313GEZZ	Plug	AB				
	PSLDM3177GEZZ	Shield	AB				
	PSLDM3178GEZZ	Shield	AB				
	PSLDM3229GEZZ	Shield	AC				
PWB-C							
TRANSISTORS							
Q201	VS2SC945APQ1E	Video Signal Switching	AB	D303	RH- EX0024CEZZ	Zener Diode	AB
Q203	VS2SC945APQ1E	Emitter Follower	AB	D502	RH- EX0045TAZZ	Zener Diode	AB
Q303, 305	VS2SC945APQ1E	Rec Amp	AB	INTEGRATED CIRCUITS			
Q306	VS2SC945APQ1E	Rec Current Muting	AB	IC201	VHiAN6310// - 1	Y-Signal Rec Processor (AGC, Clip, Pre-Emphasis, Modulator)	AS
Q309	VS2SC945APQ1E	Emitter Follower	AB	IC301	VHiTA7339P/ - 1	Pre-Amp	AN
Q311, 313	VS2SC945APQ1E	P, B, EQ Amp	AB	IC401	VHiHA11702/ - 1	Limitter RF-AGC, DOC	AU
Q401	VS2SC945APQ1E	Amp	AB	IC402	VHiHA11703/ - 1	Y-Signal P.B Processor (Demodulator, Sync Sep, Noise Cancel, Y/C MIX)	AV
Q402, 405	VS2SC945APQ1E	Emitter Follower	AB	IC501	VHiHA11781NT1	Colour Signal Processor (ACC, APC, AFC, Killer)	AZ
Q406	VS2SC945APQ1E	Switching For FV Input	AB	IC502	VHiAN6342N/ - 1	Freg Divider For P.B 50Hz	AN
Q407	VS2SC945APQ1E	Emitter Follower	AB	CAPACITORS			
Q408	VS2SC945APQ1E	Amp	AB	C203, 446	VCEAAA1AW107M	100µF, 10V, Electrolytic	AB
Q409, 410	VS2SC945APQ1E	Emitter Follower	AB	C206	VCEAAA1AW227M	220µF, 10V, Electrolytic	AC
Q411	VS2SC945APQ1E	Switching For Video Clip	AB	C207, 223	VCE9AA1CW476M	47µF, 16V, Non Polur	AC
Q501	VS2SC945APQ1E	Rec/P.B Colour Signal Switching	AB				
Q502	VS2SC945APQ1E	Emitter Follower	AB				
Q503	VS2SC945APQ1E	ID Amp	AB				
Q504, 505	VS2SC945APQ1E	H, SW, P, Inverter	AB				
Q506	VS2SC945APQ1E	P,B, Colour Amp	AB				

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Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
C209, 444, 445	VCEAAA1CW107M	100μF, 16V, Electrolytic	AB	L406, 407, 409	VP-DF221K0000	220μH	AB
C220, 423, 442	VCEAAA1CW227M	220μF, 16V, Electrolytic	AC	L205, 408	VP-DF820K0000	82μH	AB
C227	VCE9AA1EW475M	4.7μF, 25V, Non Polur	AC	L206	VP-DF151K0000	150μH	AB
C441	RC-EZ0025GEZZ	470μF, 16V, Electrolytic	AC	L302	VP-MK5R6K0000	5.6μH	AB
				L303	RCiLP0008GEZZ	2.2mH	AD
				L304, 507, 312	VP-DF390K0000	39μH	AB
				L309	VP-DF330K0000	33μH	AB
				L310	VP-DF151K0000	150μH	AB
				L401, 402	VP-DF8R2K0000	8.2μH	AB
				L404, 308	VP-DF270K0000	27μH	AB
				L405	VP-DF180K0000	18μH	AB
				L502	VP-CF221K0000	220μH	AB
				L503, 504, 505	VP-DF221K0000	220μH	AB
				FL201	RMPTD0127GEZZ	Filter	AH
				FL202	RMPTD0128GEZZ	Filter	AK
				FL301	RMPTD0124GEZZ	Filter	AG
				FL302	RMPTD0120GEZZ	Filter	AF
				FL401	RMPTD0127GEZZ	Filter	AH
				FL402	RMPTD0086GEZZ	Filter	AG
				FL403	RMPTD0128GEZZ	Filter	AK
				FL501	RMPTD0131GEZZ	Filter	AK
				FL502	RMPTD0126GEZZ	Filter	AK
				FL503	RMPTD0052GEZZ	Filter	AG
				DL401	RCiLZ0090GEZZ	Delay Line	AT
				DL501	RCiLZ0091GEZZ	Delay Line	AX
RESISTORS							
R352, 353	VRD-RA2HD220J	22ohm, 1/2W, 5%, Carbon	AA				
R333, 513	VRD-RA2HD391J	390ohm, 1/2W, 5%, Carbon	AA				
CONTROLS							
R207	RVR-M7133TAZZ	4.7Kohm, Pot., E-E Level	AC				
R215	RVR-M7133TAZZ	4.7Kohm, Pot., D, Clip	AC				
R216	RVR-M7133TAZZ	4.7Kohm, Pot., W, Clip	AC				
R328	RVR-M7133TAZZ	4.7Kohm, Pot., Ch2, Dump	AC				
R329	RVR-M7133TAZZ	4.7Kohm, Pot., Ch1, Dump	AC				
R220	RVR-M7132TAZZ	3.3Kohm, Pot., Deviation	AC				
R304	RVR-M7123TAZZ	100ohm, Pot., Rec Balance	AC				
R315	RVR-M7130TAZZ	1.5Kohm, Pot., Rec Y	AC				
R316	RVR-M7131TAZZ	2.2Kohm, Pot., Rec C	AC				
R426	RVR-M7125TAZZ	220ohm, Pot., P.B.Y Level	AC				
R528	RVR-M7135TAZZ	10Kohm, Pot., AFC Adj	AC				
R532	RVR-M7137TAZZ	22Kohm, Pot., APC Adj	AC				
R541	RVR-M7137TAZZ	22Kohm, Pot., Carr Balance	AC				
R558	RVR-M7129TAZZ	1Kohm, Pot., P.B.C Level	AC				
TRIMMER							
C229	RTδ-H1006GEZZ	50pF, FM Frequency	AE				
C318	RTδ-H1005GEZZ	50pF, Ch2 Peak	AE				
C319	RTδ-H1005GEZZ	50pF, Ch1 Peak	AE				
C540	RTδ-H1009GEZZ	20pF, 4.44MHz Adjust	AE				
MISCELLANEOUS							
X501	RCRSB0002CEZZ	Crystal	AM				
X502	RCRSB0008GEZZ	Crystal	AL				
CA	QPLGN0713GEZZ	Plug (7 Pin)	AB				
CB	QPLGN1013GEZZ	Plug (10 Pin)	AB				
CC	QPLGN1413GEZZ	Plug (14 Pin)	AB				
	QPLGN0304CEZZ	Plug (TP308)	AB				
	QPLGN0413GEZZ	Plug (TP305)	AB				
	QPLGN0513GEZZ	Plug (TP301)	AB				
PWB-H (VC-381H/W)							
DIODE & LED							
				D8101, 8108	VHD1SS119// - 1	Diode	AB
				D8109, 8113	RH-PX0032GEZZ	LED	AC
COILS & TRANSFORMERS							
L201, 202, 204, 301, 305, 306, 311, 403	VP-DF221K0000	220μH	AB				

Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
PWB-H (VC-383H)				COIL & TRANSFORMERS			
DIODES & LED				L1501, 1502	VP - DFR47M0000	.47μH	AB
D8101, 8108	RH- DX0048CEZZ	Diode	AB	L1503, 1504	VP - DF2R2M0000	2.2μH	AB
D8109, 8115	RH- PX0032GEZZ	LED	AC	L1505	VP - DF100K0000	10μH	AB
				L1506	VP - DF470K0000	47μH	AB
				L1508	VP - DF4R7K0000	4.7μH	AB
				L1509	VP - DF220K0000	22μH	AB
				L1510	VP - DF150K0000	15μH	AB
				T1501	RCiLD0096CEZZ	PIF-Detector	AE
				T1502	RCiLD0097CEZZ	AFT	AE
				T1503	RCiLD0012GEZZ	Sound Detector	AE
				CF1501	RFiLC0023CEZZ	Filter	AE
				CF1502	RFiLC0015CEZZ	Filter	AE
				SF1501	RFiLC0058CEZZ	Filter	AL
MISCELLANEOUS (VC-381H, W / VC-383H)				MISCELLANEOUS			
SW8101	QSW- P0058GEZZ	Switch, Power	AF		PSLDM3279GEZZ	Shield (Upper)	AC
SW8102	QSW- P0058GEZZ	Switch, Timer	AF		PSLDM3280GEZZ	Shield	AB
SW8103, 8109	QSW- K0008GEZZ	Switch, Mecha Operation	AF		PSLDM3281GEZZ	Shield (Lower)	AC
HA	QPLGN1414GEZZ	Plug	AE		QPLGN0513GEZZ	Plug, IB	AB
HB	QPLGN0314GEZZ	Plug	AB		VTUVTL-7C///	Tuner	BM
PWB-I				PWB-O			
TRANSISTORS				Δ L901	RCiLF0070CEZZ	Line Filter	AM
Q1501	VS2SC1906//1E	IF Amp (2SC1906)	AC	Δ C901	RC- FZ0001GEZZ	.1μF, 250V	AG
Q1502	VS2SC945APQ1E	PIF, SIF Separator (2SC945)	AB	Δ F901	QFS- C8011CEZZ	Fuse, T800mA SEMKO, 250V	AE
Q1503	VS2SA733APQ1E	Emitter Follower (2SA733)	AC	Δ F902	QFS- C4021GEZZ	Fuse, T4mA SEMKO, 250V	AE
Q1504	VS2SC2001-L-1	Emitter Follower (2SC2001L)	AD	Δ S901	QSW- S0035GEZZ	Switch, Power	AL
Q1507	VS2SK30AG//2E	AFT Mute (2SK30AG)	AD		QFSDH1001GEZZ	Fuse Holder	AA
					QFSDH1002CEZZ	Fuse Holder	AA
					QPLGN0304CEZZ	Plug, 0A	AB
					QPLGN0309GEZZ	Plug, 0B	AE
INTERGRATED CIRCUITS				THE OTHERS PARTS			
IC1501	RH- iX0113CEZZ	PIF Amp, Detector	AR	Δ R901	RR- DZ0001GEZZ	12Mohm, 1/2W, Carbon	AD
IC1502	RH- iX0055GEZZ	SIF, Detector	AG	Δ T901	RTRNP0089GEZZ	Power Transformer (VC-381H) (VC-383H)	BA
DIODES				Δ T901	RTRNP0085GEZZ	Power Transformer (VC-381W)	BA
D1501, 1503	RH- DX0142CEZZ	Diode For Service Manuals Contact MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd, Chinnor Oxon OX9 4QY Tel:- 01844-351694 Fax:- 01844-352554 Email:- enquiries@mauritron.co.uk	AB	Δ	QACCZ2005GEZZ	AC Cord (VC-381W)	AK
				Δ	QACCB9007GEZZ	AC Cord (VC-381H) (VC-383H)	AK
					TiNS- 0203GEZZ	Instruction Manual	AL
					QTANN9057GEZZ	Antenna Terminal	AY
					RTUNE0114GEZZ	RF Converter	BK
					RRMCK0022GEZZ	Remote Control Unit	AW
CAPACITORS				PWB-T (VC-381H/W)			
C1511	VCE9AA1HW105M	1μF, 50V, Non Polar	AB	TRANSISTORS			
C1530	VCQYSH1HM393K	.039μF, 50V, 5%, Mylar	AB	Q5001	VS2SA1015Y/2E	Switching (2SA1015Y)	AC
C1533	VCEAAA1CW107M	100μF, 16V, Electrolytic	AB	Q5003	VS2SA1015Y/2E	Timer Reset (2SA1015Y)	AC
				Q5002	VS2SC2021-R-1	Inverter (2SC2021R)	AB
CONTROL							
R1511	RVR- B4004CEZZ	10Kohm, Pot., RF AGC	AC				

Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
DIODE							
D1402 D1407, 1414 D5001, 5011	RH- PX0052GEZZ RH- PX0052GEZZ VHD1SS119// - 1	LED LED Diode	AB AB AB	D1411, 1414 D5001, 5011	RH- PX0052GEZZ VHD1SS119// - 1	LED Diode	AB AB
INTERGRATED CIRCUIT				CAPACITOR			
IC5001	VHi MP2812SL1E	Timer Micro Processor	AW	C5005	RC- EZ0020GEZZ	100µF, 16V, Electrolytic	AC
CAPACITOR				RESISTORS			
C5005	RC- EZ0020GEZZ	100µF, 16V, Electrolytic	AC	R5001, 5011	RMP TC0020GEZZ	Packaged Circuit (56Kohm x 7)	AC
RESISTORS				MISCELLANEOUS			
R5001, 5011	RMP TC0020GEZZ	Packaged Circuit (56Kohm x 7)	AC	SW1402 SW5001, 5006 DG5001	QSW- P0059GEZZ QSW- K0030GEZZ VVK6BT29ZBK- 1	Switch, Channel Selector Switch, Timer Operation Digitron	AS AB AX
MISCELLANEOUS				PWB-U			
SW1402 SW5001, 5006 DG5001	QSW- P0023GEZZ QSW- K0019GEZZ VVK6BT29ZK/ - 1	Switch, Channel Selector Switch Digitron	AS AC AW	TRANSISTORS			
PWB-T (VC383H)				TRANSISTORS			
Q5001 Q5003 Q5002	VS2SA1015Y/ 2E VS2SA1015Y/ 2E VS2SC1815YW1E	Switching (2SA1015Y) Inverter (2SA1015Y) Timer Reset (2SC1815Y)	AC AC AB	Q1407 Q1408 Q1409	VS2SC945APQ1E VS2SA893AEF1E VS2SC2240BL1E	VT Drive (2SC945P,Q) Switch (2SA893AE) Switch (2SC2240BL)	AB AD AD
INTERGRATED CIRCUIT				INTERGRATED CIRCUIT			
IC5001	VHi MP2812SL1E	Timer Micro Processor	AW	I1401	RH- iX0037CEZZ	Zener IC	AF
DIODES & LED				DIODES			
D1402 D1405, 1408	RH- PX0054GEZZ RH- PX0052GEZZ	LED LED	AB AB	D1411 D1420, 1427	RH- DX0048CEZZ RH- DX0048CEZZ	Diode Diode	AB AB

Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
CONTROLS							
R1422	RVR- Y4049GE SA	50Kohm, Pot., Tuning Control	AT	C10	95 KUGAC102BB	1000µF, 16V, Electrolytic	AD
				C12	95 KUGZ0188ZZ	100µF, 16V, Electrolytic	AC
				△ C14	95 KUGFF103AF	.01µF, 50V, Film Condensor	AB
				C17	95 KUGZ0188ZZ	100µF, 16V, Electrolytic	AC
				△ C18	95 KUGAJ4R7AK	47µF, 100V, Electrolytic	AC
				C21	95 KUGZ0188ZZ	220µF, 16V, Electrolytic	AC
				△ C23	95 KUGAF100AU	10µF, 50V, Electrolytic	AC
				△ C24	95 KUGZ0086ZZ	220pF, 50V, Ceramic	AA
				△ C30	VCEAAA1HW105M	1µF, 50V, Electrolytic	AB
				C31	95 KUGAF100AU	10µF, 50V, Electrolytic	AC
MISCELLANEOUS							
SW1403	QSW- S0029GE ZZ	Switch, AFT	AD				
	QPLGN0913GE ZZ	Plug, UA	AB				
	QPLGN1013GE ZZ	Plug, UB	AB				
	QPLGN0313GE ZZ	Plug, UC	AB				
CHOPPER REGULATOR							
TRANSISTORS							
△ Q01	95 KUAD0036CZ	Level Regulator (2SD1308)	AG	△ R01	95 KUEEB272AJ	2.7Kohm, Bias resistor for QCI	AA
△ Q02	95 KUAC0004CZ	Error Amp (2SC945A)	AC	△ R20	95 KUEEB151AJ	150ohm, DC-DC converter oscillation for feedback	AA
△ Q03	95 KUAD0041BZ	13V Regulator Output (2SD1128)	AG	△ R25	95 KUEEB272AJ	2.7Kohm, Current limiter for power failure detection	AA
Q04	95 KUAD0038CZ	13V Error Amp (2SD471)	AE	△ PR01	95 KUZZ0012ZZ	2.2ohm, Positive characteristic thermistor, thermal current limiter	AE
△ Q05	95 KUAD0036CZ	12V Regulator output (2SD1308)	AG				
Q06	95 KAAA0006CZ	Switching (2SA733)	AC	COILS			
Q07	95 KUAC0004CZ	12V Error Amp (2SC945A)	AC	△ L01	95 KUZZ0011ZZ	100µH	AD
Q08	95 KUAC0004CZ	CTL Drive (2SC945A)	AC				
Q09	95 KUAC0004CZ	10V Error Amp (2SC945A)	AC				
△ Q10	95 KUAC0025CZ	OSC (2SC1827)	AH				
DIODES							
△ D01,	95 KUBA0005AZ	(1SS55)	AB	CONTROLS			
△ D02,				△ R04	95 KUFZ0062ZZ	500ohm, Pot., 15.5V, Level Adjust	AD
△ D03,	95 KUBB0055RZ	(S2V10)	AH	R13	95 KUFZ0065ZZ	1Kohm, Pot., 12V Adjust	AD
△ D06							
△ D07	95 KUBB0033AZ	(CTM-21R)	AF	MISCELLANEOUS			
△ D08	95 KUBB0032AZ	(CTM-21S)	AF	FB01	95 KBFZ89111Z	Bias Coax	AB
△ D09	95 KUBD0120CZ	Zener Diode (RD9, 1EB2)	AC	△ T01	RTRNH0015GE ZZ	Converter Trans	AM
△ D10	95 KUBD0125BZ	Zener Diode (RD13EB1-A)	AC				
△ D11	95 KUBD0120CZ	Zener Diode (RD9, 1EB2), 12V	AC				
△ D12	95 KUBD0121BZ	Zener Diode (RD10EB1), 10V	AB				
△ D13,	95 KUBC0014AZ	(EM1Z), 50V	AC				
△ D14							
△ D15	95 KUBD0115BZ	Zener Diode (RD5,6EB2)	AB				
△ D16	95 KUBA0005AZ	(1SS55), -20V	AB				
△ D17	95 KUBA0005AZ	(1SS55), 10V					
△ D18	95 KUBA0005AZ	(1SS55), 50V					
△ D19	95 KUBA0005AZ	(1SS55), 50V					
CAPACITORS							
△ C01	95 KUGFF473AF	.047µF, 50V Mylar Condenser	AB				
△ C02	95 KUGAD681AK	680µF, 25V, Electrolytic	AD				
△ C03	95 KUGAD681AK	680µF, 25V, Electrolytic	AD				
△ C04	95 KUGZ0189ZZ	1000µF, 50V, Electrolytic	AL				
△ C05	95 KUGAF2R2AK	2.2µF, 50V, Electrolytic	AB				
△ C07	95 KUGAD682BL	4700µF, 25V, Electrolytic	AN				
C08	95 KUGZ0188ZZ	220µF, 16V, Electrolytic	AC				

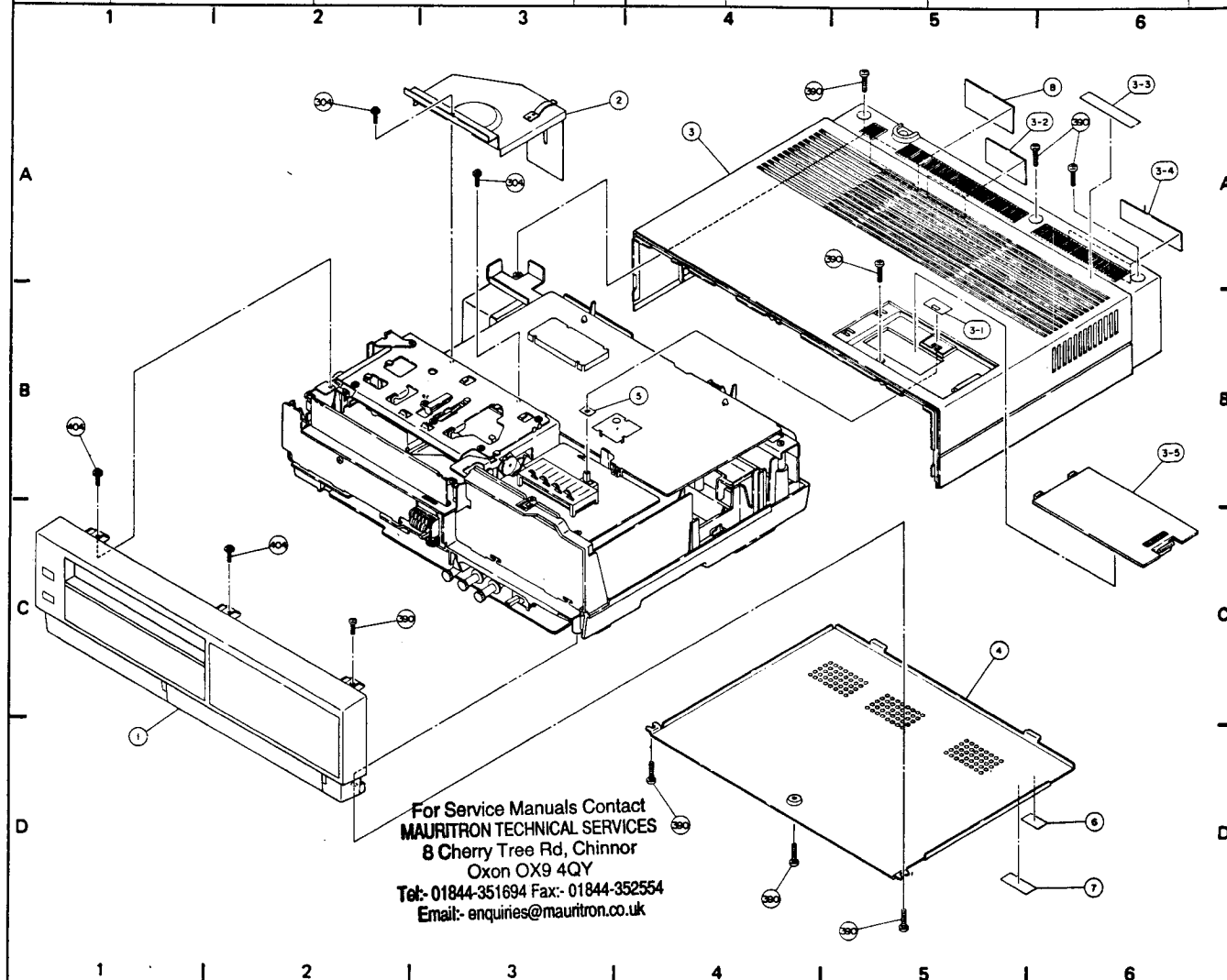
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
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SCREW, NUTS, WASHERS, AND WIRE CLAMP

Ref. No.	Part No.	Description	Size	Code	Ref. No.	Part No.	Description	Size	Code
301	XBPSD20P04000	Pan Head Screw	2P+4S	AA	367	LX- RZ3003GEFJ	Retainer CS		AA
302	XBPSD20P05J00	Pan Head Screw	SW 2P+5S	AA	368	PSPAN0002GEZZ	Spacer	5.2	AS
303	XBPSD20P10J00	Pan Head Screw	SW 2P+10S	AA	369	XWHS D31- 05080	Plain Washer	3.1W 8-0.5S	AA
304	XBPSD30P04J00	Pan Head Screw	SW 3P+4S	AA	370	LX- WZ1001GE00	Washer		AA
305	XBPSD30P04000	Pan Head Screw	3P+4S	AA	371	LHLDW9001GEZZ	Wire Holder		AA
306	XBPSD30P05J00	Pan Head Screw	SW3P+5S	AA	372	XWHS D31- 05060	Plain Washer	3.1W 6-0.5S	AA
307	XBPSD30P06JS0	Pan Head Screw	WSW 3P+6S	AA	373	XHPSD30P22000	Cup Tight Screw	S 3P+22S	AA
308	XBPSD30P06J00	Pan Head Screw	SW 3P+6S	AA	374	LX- HZ3002GEFD	Tightening Screw B	B 3P+8S	AA
309	XBPSD30P06000	Pan Head Screw	3P+6S	AA	375	XWHJ Z21- 05045	Washer	2.1W 4.5-0.5	AA
310	XBPSD30P08JS0	Pan Head Screw	WSW 3P+8S	AA	376	XRESJ 25- 04000	E Ring	E 2.5	AA
311	XBPSD30P08J00	Pan Head Screw	SW 3P+8S	AA	377	LX- BZ3019GEZZ	Screw		AA
312	XBPSD30P08000	Pan Head Screw	3P+8S	AA	378	PSPAN0006GEZZ	Wire Holder		AC
313	XBPSD30P10JS0	Pan Head Screw	WSW 3P+10S	AA	379	XHPSF30P12WS0	Wire Holder		AA
314	XBPSN30P06000	Pan Head Screw	3P+6S	AA	380	XHPSD30P08000	Wire Holder		AA
315	XBSSD26P06000	Pan Head Screw	2.6S+6S	AA	381	XWHJ Z17- 05040	Polyslider Washer	1.7W 4-0.5	AA
316	XEBSD40P10000	P Tight Screw		AA	382	XBPSD20P08J00	Pan-Head Screw	SW 2P+8S	AA
317	XEBSD40P16000	P Tight Screw		AA	383	LHLD F1006GEZZ	Y/C Board Holder		AB
318	XEBSD40P26000	P Tight Screw		AA	384	LHLDW1037CEZZ	Wire Holder		AA
319	XHPSD20P06WS0	Cup Tight Screw	C 2P+6S	AA	385	LHLD F1002AEUA	Insulating Sheet Holder		AA
320	XHPSD30P05000	S Cup Tight Screw	S 3P+5S	AA	386	LHLDW1004GEZZ	Wire Holder		AA
321	XHPSD30P06WS0	Cup Tight Screw	S 3P+5S	AA	387	XJBSD30P16000	B-Tight Screw		AA
322	XHPSD30P06000	S Cup Tight Screw	S 3P+6S	AA	388	XJBSD30P08000	B-Tight Screw	M 3x8	AA
323	XHPSD30P08WS0	Cup Tight Screw	C 3P+8S	AA	389	XHPSD30P06WS0	Screw	C 3Px6S	AA
324	XHPSD30P10WS0	Cup Tight Screw	C 3P+10S	AA	390	XJBSF40P16000	Screw		AA
325	XLHAZ30- 06000	Rivet		AA	391	XHPSF30P06WS0	Screw		AA
326	XRESJ 20- 04000	E Ring	E-2	AA	392	XJBSD26P06000	Screw		AA
327	XRESJ 30- 06000	E Ring	E-3	AA	393	XBPSD30P10J00	Screw	SW 3P+10	AA
328	XRESJ 40- 06000	E Ring	E-4	AA	394	LX- BZ3039GEFN	Screw	W 3P+9S	AA
329	XRESJ 50- 06000	E Ring	E-5	AA	395	XBPSD20P17000	Screw	SW2P	AA
330	XUASD30P10000	Tapping Screw	A 3P+10S	AA	396	XBPSD20P04J00	Screw	2S 2P+4S	AA
331	XWHJ Z18- 05040	Plain Washer	1.8W 4-0.5	AA	397	XBPSD26P04J00	Screw	SW 26P+4S	AA
332	XWHJ Z21- 05045	Plain Washer	2.1W 4.5-0.5	AA	398	XBPSD20P03000	Screw	2P+3S	AA
333	XWHJ Z31- 01054	Plain Washer	3.1W 5.4-0.13	AA	399	XWHJ Z34- 05100	Polyslider W	3.45W 10-0.5	AA
334	XWHJ Z31- 02054	Plain Washer	3.1W 5.4-0.25	AA	400	XWHJ Z52- 05080	Polyslider W	5.2W 8.0-0.5	AA
335	XWHJ Z31- 05054	Plain Washer	3.1W 5.4-0.5	AA	401	LX- XZ3016GEFP	Set Screw	M 2x4	AA
336	XWHJ Z38- 05100	Plain Washer	3.8W 10-0.5	AA	402	XJBSD30P10000	B-Tight Screw	3x10	AA
337	XWHJ Z42- 05070	Plain Washer	4.2W 7-0.5	AA	403	XNESD30- 02000	Nut	3N	AA
338	XWHS D21- 04060	Plain Washer	2.1W 6-0.4	AA	404	XHPS30P06XS0	Screw		AA
339	LHLD F1001CEZZ	Clamp		AB	405	XJBSD30P06000	B-Tight Screw	M3x6	AA
340	LHLDW1001GEZZ	Clamp		AA	406	XJBSD30P08000	Screw		AA
341	LHLDW1006GEZZ	Clamp		AA	407	PSPAN0003GEZZ	Spacer		AB
342	LHLDW1008GEZZ	Clamp		AA	408	XJASD40P10000	Screw		AA
343	LHLDW1033CE00	Clamp		AA	409	XBPSD30P06J00	Screw		AA
344	LHLDW1046CEZZ	Clamp		AA	410	MHNG- 1005GEZZ	Hing		AA
345	LHLDW1049CEZZ	Clamp		AC	411	LHLDW1019GEZZ	Wire Holder	WH-1 Small	AA
346	LHLDW9003CEZZ	Clamp		AA	412	LX- HZ3008GEFD	Screw		AA
347	LX- BZ3004GEFD	AC Head Screw	WH-1	AB	413	LX- DZ3029GEFW	Screw		AA
348	LX- BZ3008GEZZ	Screw		AA	414	XBPSF30P06000	Screw		AA
349	LX- BZ3009GEFD	Screw		AA	415	LX- BZ3029GEFN	Screw		AA
350	LX- BZ3011GEFD	Screw with Washer		AA	416	LX- BZ3050GEFD	Screw		AA
351	LX- LZ1002GE09	Rivet D4		AB	417	QHWS- 0004CEFW	Lug Terminal		AA
352	LX- NZ3002GEFW	Nut		AC					
353	LX- NZ3005GEFW	Nut		AA					
354	LX- NZ3037CEFJ	Nut		AA					
355	LX- PZ3001GEFJ	Spring Pin		AA					
356	LX- WZ0015TAFW	Washer		AA					
357	LX- XZ3001GEFP	Fixing Screw	M 2x3	AC					
358	LX- XZ3003GEFP	Fixing Screw	M 2.6x4	AB					
359	LX- XZ3009GEFP	Fixing Screw		AA					
360	LX- XZ3013GEFP	Fixing Screw	M 3-5S	AA					
361	XCBSD40P08000	Tapping Screw	M 4x8	AA					
362	LX- RZ3001GEFP	Grip Ring	ø 2	AA					
363	XJBSD30P10000	Fixing Screw B	B 3P+10	AA					
364	LX- JZ3001GEFD	Special Screw	WSW 3P+6S	AA					
365	PSPAN0005GEZZ	Spacer	9.5	AB					
366	XHPSF30P08WS0	Cup Tight Screw	C 3P+8S	AA					

CABINET PARTS

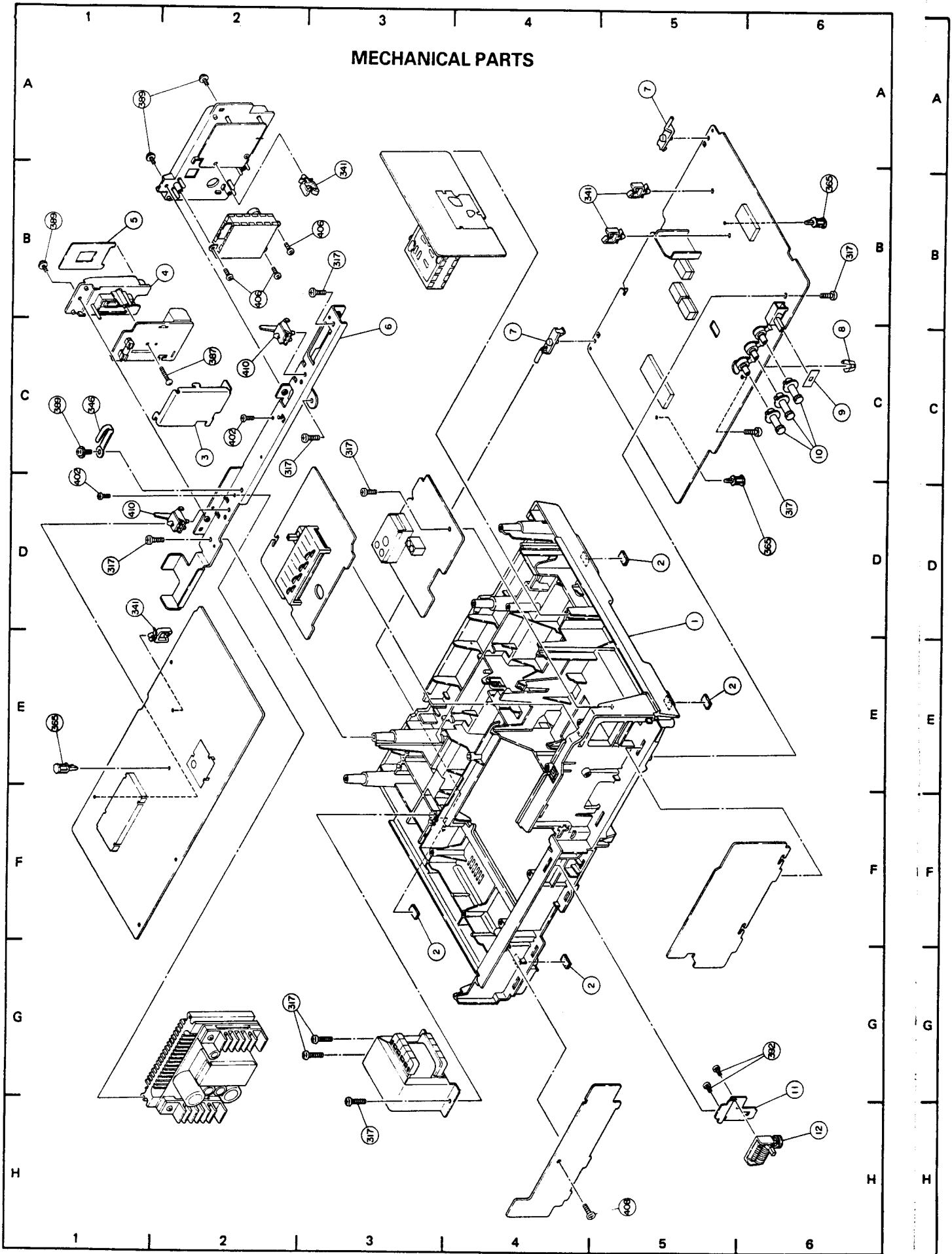
Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
1		Front Panel Ass'y (See Front Panel Parts)		3-5	GFTAT1004GESH	Memory Adjuster Part Cover	AH
2	PSLDM9033GEZZ	Cover	AK	4	GBDYU3007GEZZ	Bottom Plate	AL
3	CCABA1014GE37	Upper Cabinet Ass'y (VC-383H, VC-381H)	BD	5	PSPAHO014GEZZ	Spacer	AA
3	CCABA1014GE31	Upper Cabinet Ass'y (VC-381W)	BA	6	TLABZ0024GEZZ	Adjust Label A	AA
3-1	HiNDP0084GESB	AFT Indication Plate	AF	7	TLABZ0025GEZZ	Adjust Label B	AA
3-2	TLABS0005GEZZ	Caution Label	AB	8	TLABM0240GEZZ	MODEL Label (VC-383H)	AB
3-3	TLABS0002GEZZ	Caution Label	AA	8	TLABM0249GEZZ	MODEL Label (VC-381H)	AB
3-4	TCAUH3023GEZZ	RF Converter Caution Label	AA	8	TLABM0271GEZZ	MODEL Label (VC-381W)	AB



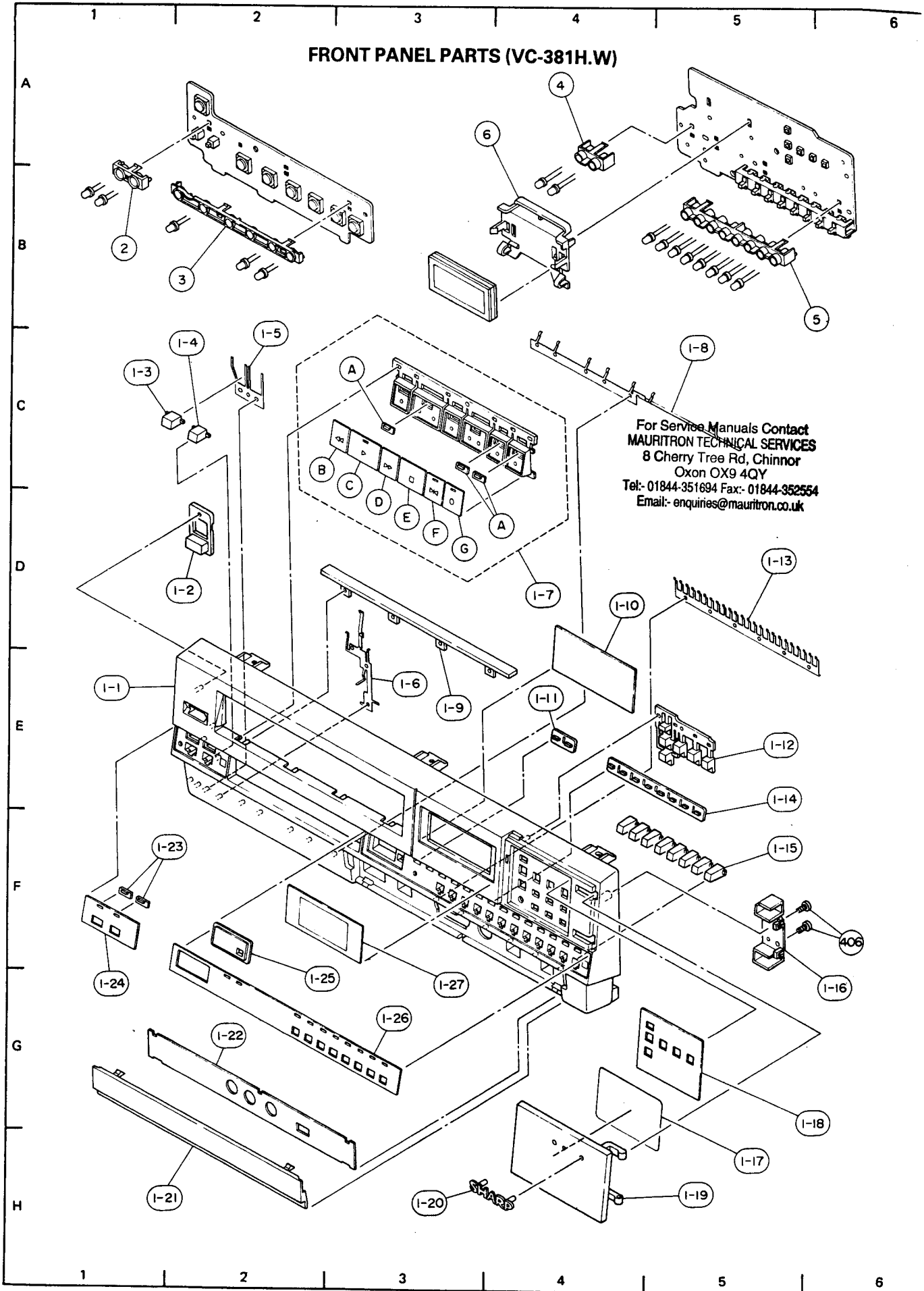
MECHANICAL PARTS

Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
1	GCABB1008GES A	Enclosure Bottom	AX	8	CEARP0022HE00	Earth Plate	AE
2	PFLT-0006GEZZ	Rubber	AB	9	PSPAHO010GEZZ	Knob Cover	AA
3	PZETV0125GEZZ	Cover	AC	10	JKNBK1017GES A	Tracking Knob	AC
4	HPNLH1001GE00	AC Cord panel	AD	11	LANGF9124GEZZ	Counter Angle	AB
5	HiNDP0268GEZZ	Indication Plate (VC-383H, VC-381H)	AD	12	KC6UB0020GEZZ	Counter	AM
5	HiNDP0283GEZZ	Indication Plate (VC-381W)	AE				
6	LANGQ4019GEFW	Angle	AG				
7	NSFTP0005GEZZ	Shaft	AB				

MECHANICAL PARTS



FRONT PANEL PARTS (VC-381H.W)



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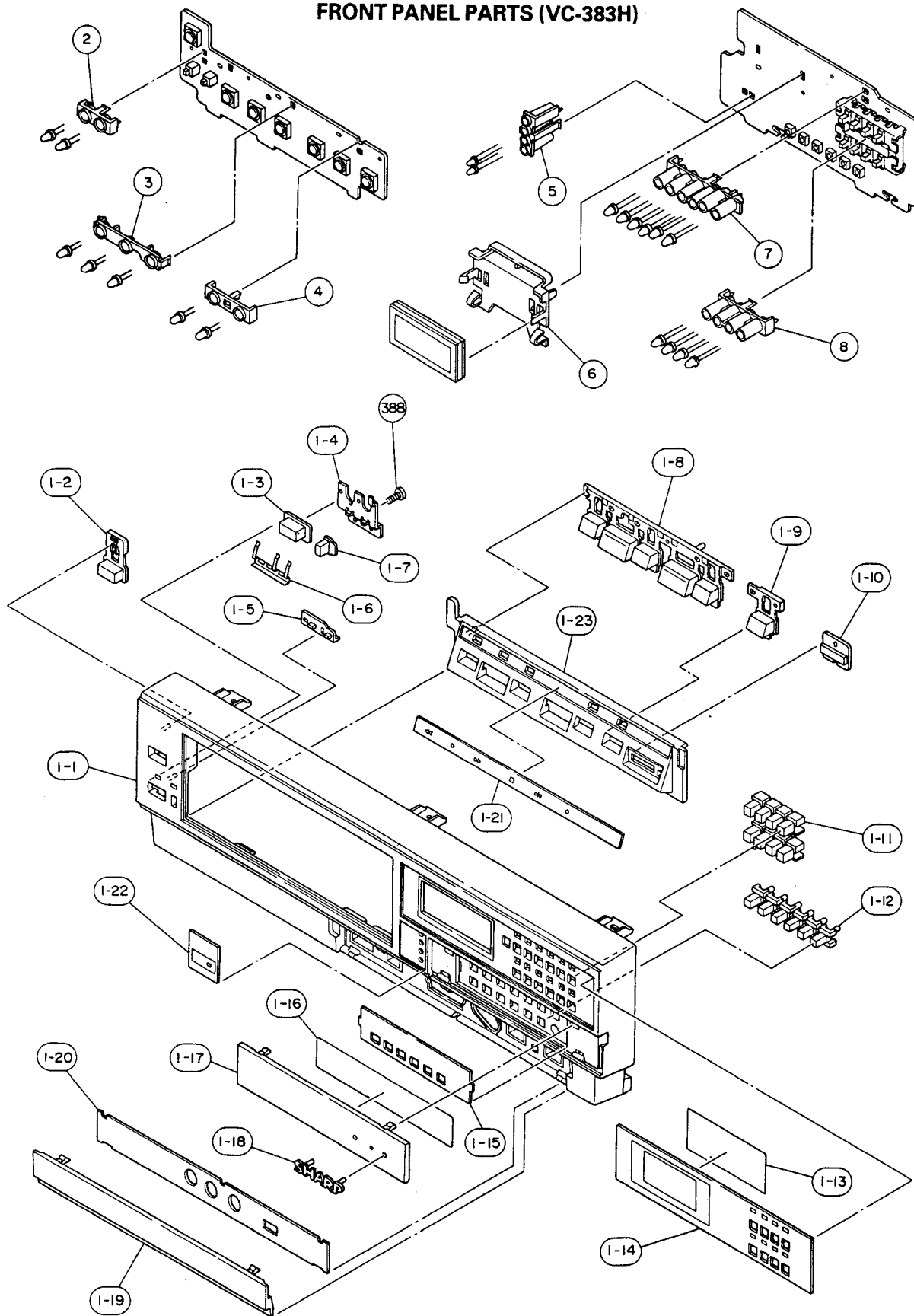
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FRONT PANEL PARTS (VC-383H)



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FRONT PANEL PARTS (VC-381H, W)

Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
1	CPNLC1120GE01	Front Panel Ass'y (VC-381H)	BC	1-14	GCδVA1103GESA	Decoration Cover, Channel	AE
1	CPNLC1120GE04	Front Panel Ass'y (VC-381W)	BC	1-15	JBTN-1167GESA	Channel Button	AC
1-1		Front Panel (Not replacement item)		1-16	LHLDZ1168GE00	Timer Door Holder	AE
1-2	JBTN-1164GESA	Eject Button	AE	1-17	TLABH0051GEZZ	Timer Label	AB
1-3	JBTN-1163GESA	Power Button	AD	1-18	HiNDP0233GESA	Indication Plate	AD
1-4	JBTN-1165GESA	Timer Chage Button	AD	1-19	GDδRF1037GESA	Timer Door (VC-381H)	AG
1-5	MSPRP0073GEFW	Power Button Spring	AB	1-19	GDδRF1025GESA	Timer Door (VC-381W)	AH
1-6	QEARP0043GEFW	Spring	AD	1-20	HBDGB3007GESA	Sharp Badge	AD
1-7	JBTN-1216GESA	Operation Button	AU	1-21	GDδRF1027GESA	Tracking Door	AM
A	GCδVA1106GESA	Cover	AC	1-22	HiNDP0212GESA	Indication Plate, Tracking	AE
B	HiNDM0282GESA	Indication Plate	AD	1-23	GCδVA1105GESA	Decoration Cover, Power	AE
C	HiNDM0283GESA	Indication Plate	AF	1-24	HiNDM0288GESA	Indication Metal, Operation	AD
D	HiNDM0284GESA	Indication Plate	AD	1-25	GMADK0009GESA	Counter Window	AF
E	HiNDM0285GESA	Indication Plate	AE	1-26	HiNDM0295GESA	Indication Metal, Operation	AE
F	HiNDM0286GESA	Indication Plate	AD	1-27	GMADI0028GESA	Timer Window	AP
G	HiNDM0287GESA	Indication Plate	AD	2	LHLDZ1184GEZZ	LED Holder	AB
1-8	QEARP0044GEFW	Spring	AG	3	LHLDZ1185GEZZ	LED Holder	AB
1-9	HDECQ0027GESA	Decoration Cover, Cassette	AD	4	LHLDZ1186GEZZ	LED Holder	AB
1-10	PCδVU9025GESA	Timer Filter	AD	5	LHLDZ1198GEZZ	LED Holder	AB
1-11	GCδVA1110GESA	Decoration Cover, Dew	AF	6	LHLDZ1187GEZZ	Degitron Holder	AB
1-12	JBTN-1168GESA	Timer Button	AD				
1-13	QEARP0045GEFW	Spring	AF				

FRONT PANEL PARTS (VC-383H)

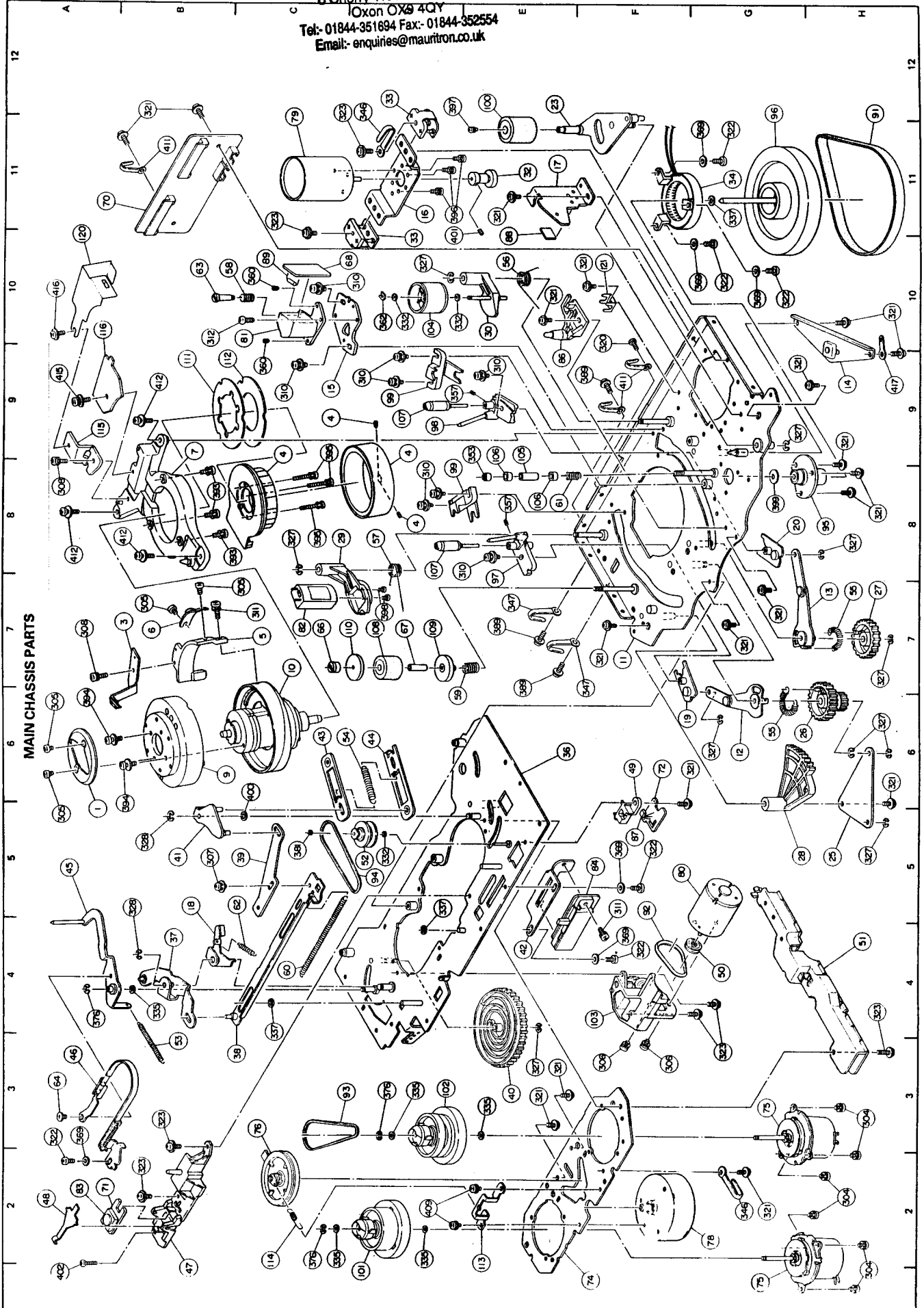
Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
1	CPNLC1109GE01	Front Panel Ass'y	BD	1-17	GDδRF1032GESB	Timer Door	AE
1-1		Front Panel (Nor replacement item)		1-18	HBDGB1057AFSA	SHARP Badge	AD
1-2	JBTN-1169GESB	Eject Button	AD	1-19	GDδRF1027GESA	Tracking Door	AH
1-3	JBTN-1171GESB	Power Button	AD	1-20	HiNDP0212GESA	Low Indication Plate	AE
1-4	LANGF9161GEFW	Angle	AB	1-21	HiNDP0209GESB	Operation Indication Plate	AD
1-5	GCδVA1093GESA	Power LED Decoration Metal	AC	1-22	HiNDP0231GESB	LED Indication Plate	AD
1-6	MSPRP0078GEFW	Button Spring	AB	1-23	HPNLC1110GESB	Sub Panel	AN
1-7	JBTN-1170GESB	Timer ON/OFF Button	AC	2	LHLDZ1157GEZZ	Power LED Holder	AB
1-8	JBTN-1172GESB	Operation Button	AK	3	LHLDZ1158GEZZ	Play Back LED Holder	AB
1-9	JBTN-1176GESA	Recording Button	AD	4	LHLDZ1159GEZZ	Recording LED Holder	AB
1-10	GMADK0008GESA	Counter Window Plate	AC	5	LHLDZ1161GEZZ	LED Holder	AC
1-11	JBTN-1173GESB	Selector Button	AC	6	LHLDZ1180GEZZ	Degitron Holder	AB
1-12	JBTN-1174GESB	Timer Button	AC	7	LHLDZ1160GEZZ	Channel LED Holder	AB
1-13	GCδVU9013GESA	Degitron Filter	AD	8	LHLDZ1182GEZZ	Channel LED Holder	AC
1-14	HiNDP0210GESB	Selector Indication Plate	AE				
1-15	HiNDP0211GESB	Timer Indication Plate	AD				
1-16	TLABH0059GEZZ	Timer Setting Label	AA				

For Service Manuals Contact
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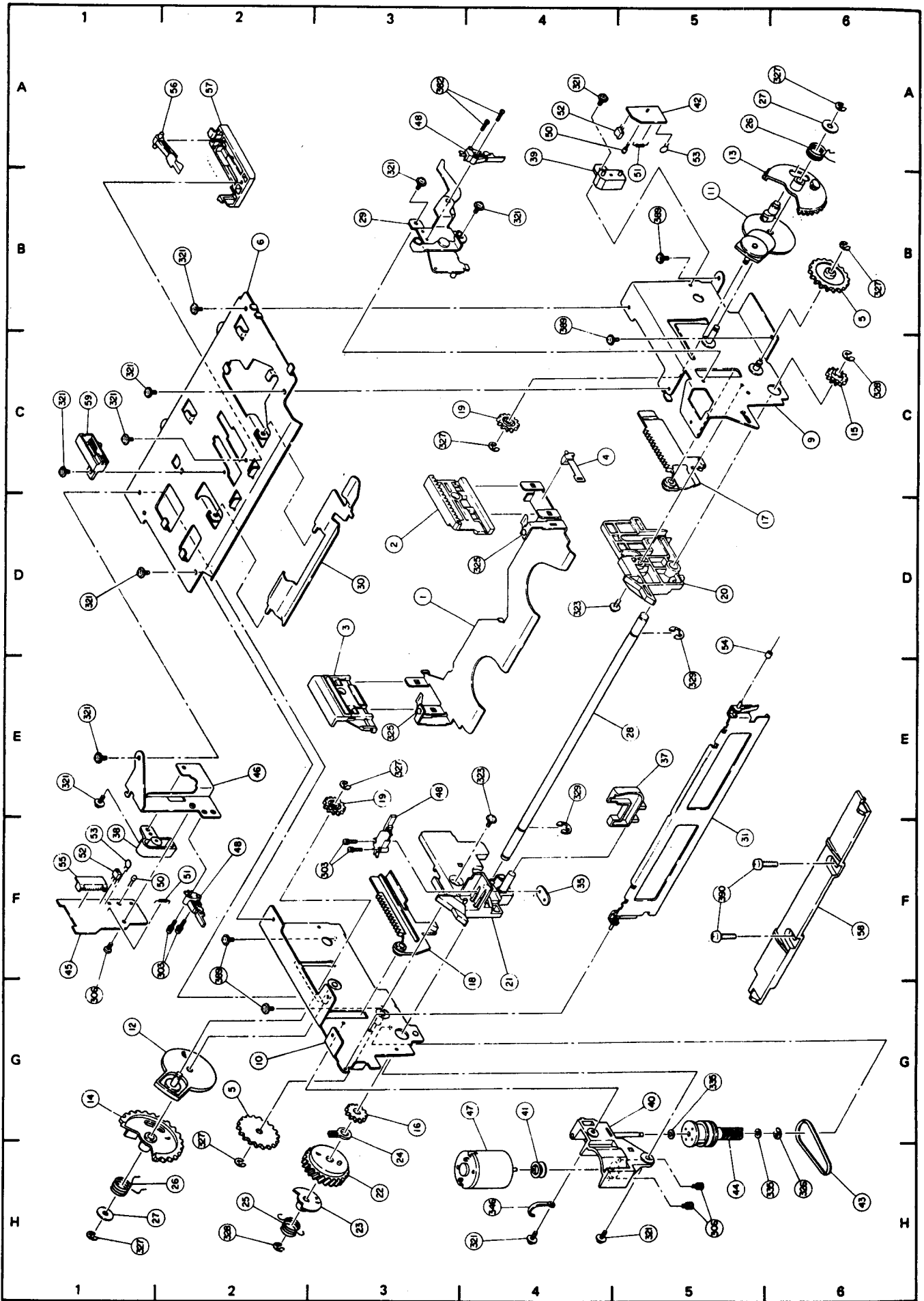
MAIN CHASSIS PARTS

Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
1	PC6VP3006GEFW	Video Head Lead Cover	AC	62	MSPRT0143GEFJ	Auxiliary Brake Spring	AB
2		Drum Lead Shield Case	AC	63	LX-BZ3018GEZZ	AC Head Screw	AA
3	QBRSK0008GEZZ	Earth Brush Ass'y F	AE	64	LX-BZ3026GEFD	Tension Spacer Screw 8010	AB
4	RM6TP1046GEZZ	Direct Drive Motor Ass'y	BF	65			
5	LHLDZ3016GEFW	Heater Holder D	AH	66	LX-NZ3008GEFW	Adjusting Nut B	AB
6	RHETP0001GEZZ	PTC Heater	AH	67	NSFTL0215GEFW	Supply Impedance Rolelr, Inner	AB
7	PGiDC0011GEZZ	V-Base Ass'y B	AW				
8	PC6VP3007GEFW	Video head Amplifier Lead Clamp	AC	68		AC Head C Base	
				69		Capstan PG Base	
9	DDRMU0002HE05	Upper Drum Ass'y (VC-381H, VC-383H)	BS	70		Mechanism Platform 8379	
				71		Cassette Down SW Base	
9	DDRMU0005HE04	Upper Drum Ass'y (VC-381W)	BS	72		Reel Sensor Base	
10	DDRML0002HE00	Lower Drum Ass'y	BP	74	LCHSS0004GEFW	Reel Unit Chassis	
11		A-Chassis		75	RPLU-0062GEZZ	Reel Brake Ass'y	AQ
12	MARMM0033GEZZ	Loading Arm A Ass'y	AF	76	NiDL-0005GEZZ	Reel Idler Ass'y	AL
13	MARMM0034GEZZ	Loading Arm B Ass'y	AF	78	RM6TV1004GEZZ	Reel Motor Ass'y	BA
14	LANGF9116GEZZ	Fly Angle Ass'y	AC	79	RM6TP1029GEZZ	Capstan Motor 8112	BE
15	LDAiH1007GEFW	Audio Control Head Plate	AC	80	RM6TM1017GEZZ	Loading Motor	AV
16	LANGT9046GEFW	Capstan Motor Base Plate	AC	81	RHEDU0031GEZZ	AC Head C Ass'y PAL	AZ
17	LANGF9171GEZZ	Cassette Lod Open Angle Ass'y	AD	82	RHEDT0005GEZZ	Full Erase Head Ass'y	AX
18	MLEVF0137GEZZ	Auxiliary Brake Ass'y	AC	83	QSW-K0008GEZZ	Cassette Down Switch	AF
19	PGiDH0018GEZZ	Slider A Ass'y	AE	84	QSW-S0032GEZZ	Slide Switch 8010	AN
20	PGiDH0019GEZZ	Slider B Ass'y	AE	86	RLMPM0008GEZZ	Cassette Lamp Ass'y	AH
21	LANGT9047GEFW	DEW Sensor Base Plate	AC	87	VHiDN6838// - 1	Reel Sensor (Hall IC)	AG
23	MLEVF0129GEZZ	Pinch Roller Lever Ass'y	AF	88	RDTCH0010GEZZ	Dew Sensor	AG
25	LANGF9122GEFW	Loading Gear Plate	AB	89	VRD-RA2EE100J	Resistor	AA
26	NGERH1021GEZZ	Loading Gear A Ass'y	AD	91	NBLTH0022GE00	Capstan Belt 8010	AE
27	NGERH1022GEZZ	Loading Gear B Ass'y	AD	92	NBLTK0020GE00	Loading Belt 8010	AC
28	NGERH1023GEZZ	Segment Gear Ass'y	AD	93	NBLTK0010GE00	Counter Belt A	AC
29	MARMP0015GEZZ	Erase Head Arm	AC	94	NBLTK0021GE00	Counter Belt B	AC
30	MARMP0016GEZZ	Take-up Impedance Roller Arm Ass'y	AD	95	NBRGC0016GEZZ	Capstan Holder Ass'y PAL	AR
				96	NFLYV0026GEZZ	Capstan Flywheel Ass'y PAL	AR
32	NPLYV0077GEZZ	Capstan Motor Pulley Ass'y 8112	AD	97	LPoLM0013GEZZ	Pole Base A Ass'y	AP
				98	LPoLM0014GEZZ	Pole Base B Ass'y	AP
33	PZETN0002GEZZ	Motor Angle Insulator	AB	99	PGiDC0010GEFW	V-Block	AG
34	RSTR-0033GEZZ	PPG Stator Ass'y	AK	100	NRoLR0005GEZZ	Pinch Roller Ass'y	AQ
36		B-Chassis		101	NDAiV1013GEZZ	Supply Reel Disk Ass'y 8010	AL
37	MARMM0035GEZZ	Shifter Arm Ass'y	AG	102	NDAiV1014GEZZ	Take-up Reel Disk Ass'y 8010	AL
38	MSLiF0006GEZZ	Shifter A8010 Ass'y	AD	103	NPLYV0069GEZZ	Loading Block Ass'y 8010	AR
39	MSLiF0007GEFW	Shifter B8101	AB	104	NRoLM0010GEZZ	Impedance Roller Ass'y	AK
40	NGERH1024GEZZ	Master Cam	AL	105	PGiDP0001GEFW	Fixed Guide	AE
41	MLEVF0130GEZZ	Pinch Roller Drive Lever 8010 Ass'y	AD	106	PGiDP0003GEFW	Guide Flange B	AC
				107	NRoLP0007GEZZ	Guide Roller Ass'y	AN
42	LANGQ9006GEFW	Slide Switch Angle 8010	AC	108	NRoLM0011GEZZ	Supply Impedance (Si) Roller Ass'y	AK
43	MLEVF0131GEFW	Pinch Roller Double Action Lever, Upper	AC	109	PGiDS0004GEZZ	Si Roller Flange A Ass'y	AK
				110	PGiDS0005GEZZ	Si Roller Flange B	AE
44	MLEVF0132GEFW	Pinch Roller Double Action Lever, Lower	AC	111	PSLDM3341GEZZ	Drum Motor Shield Plate	AE
				112	PZETV0086GEZZ	DD Shield-insulator	AB
45	MLEVF0133GEZZ	Tension Arm 8010 Ass'y	AH	113	LANGK0066GEFN	Angle	AB
46	LBNDK3010GEZZ	Tension Band Ass'y 8010	AG	114	MSPRT0169GEFJ	Spring	AB
47	LHLDZ1066GE00	Cassette Down Switch Holder	AE	115	LANGT9071GEFW	Shield Fixed Angle	AC
48	MLEVF0135GEFW	Cassette Down Actuator	AC	116	QPWBF0931GEZZ	V Base Relay PWB	
49	LHLDZ1067GE00	Reel Sensor Holder 8010	AB	117	QPLGN0214GEZZ	Plug	AB
50	NPLYV0036GEZZ	Loading Motor Pulley	AB	118	QPLGN0514GEZZ	Plug	AC
51	LHLDWI025GEZZ	Wire Holder 8010	AD	119	QPLGN0614GEZZ	Plug	AC
52	PMAGP1002GEZZ	Reel Pulser Ass'y 8010	AE	120	PSLDM9032GEZZ	V.H Amp. lead Shild Case	AB
53	MSPRT0138GEFJ	Tension Arm Spring	AA	121	QEARP0015GEFW	Earth Terminal	AB
54	MSPRT0139GEFJ	Pinch Roller Pressure Spring	AA				
55	MSPRT0140GEFJ	Double Action Spring	AA				
56	MSPRD0029GEFJ	Take-up Impedance Roller Arm Spring	AA				
57	MSPRD0030GEFJ	Full Erase Head Arm Spring	AA				
58	MSPRC0006GEFJ	Audio Control Head Spring	AA				
59	MSPRC0015GEFJ	Adjusting Spring A	AA				
60	MSPRT0141GEFJ	Shifter Spring	AB				
61	MSPRC0016GEFJ	Adjusting Spring B	AB				

For Service Manuals Contact
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Email: enquiries@maurtron.co.uk



MAIN CHASSIS PARTS



CASSETTE HOUSING PARTS

Ref. No.	Part No.	Description	Code	Ref. No.	Part No.	Description	Code
1	LHLDX3010GEZZ	Slider Ass'y	AK	34	-	-	-
2	LHLDX1001GEZZ	Cassette Holder (Right)	AC	35	LANGT9040GEFW	SW Base Plate 1	AB
3	LHLDX1002GEZZ	Cassette Holder (Left)	AC	36	-	-	-
4	MARMP0014GEZZ	Unlock Ass'y	AC	37	MLEV00034GEZZ	Write Disable SW Lever	AB
5	NGERH1025GEZZ	Intermediate Gear	AC	38	LHLDZ1068GE00	E-Sensor Holder	AD
6	LANGF9118GEFW	Top Plate	AD	39	LHLDZ1069GE00	S-Sensor Holder	AB
7	-	-	-	40	CHLDZ1030GE01	Motor Holder Ass'y	AD
8	-	-	-	41	NPLYV0036GEZZ	L-Motor Pulley	AB
9	LANGF9119GEZZ	Cassette Controller Frame Right Ass'y	AK	42	-	S-Sensor Base Plate	-
10	LANGF9120GEZZ	Cassette Controller Frame Left Ass'y	AK	43	NBLTK0009GE00	Cassette Controller Loading Belt	AC
11	CARMP0006GE01	Drive Arm Right Ass'y	AE	44	NGERW1006GEZZ	Worm Ass'y	AF
12	MARMP0007GEZZ	Drive Arm Left Ass'y	AE	45	-	C-Base Plate	-
13	NGERH1006GEZZ	Drive Gear (Right)	AC	46	LANGQ1030GEFW	Cassette Controller Base Plate angle	AD
14	NGERH1007GEZZ	Drive Gear (Left)	AC	47	RMöTM1017GEZZ	Cassette Controller Motor	AV
15	NGERH1009GEZZ	Cassette Controller Pinion (Right)	AA	48	QSW-M0019GEZZ	Skelton SW	AE
16	NGERH1010GEZZ	Cassette Controller Pinion (Left)	AA	49	-	-	-
17	PGiDM0018GEZZ	Slide Guide, Right	AF	50	RH-PX0001GEZZ	Phototransistor	AH
18	PGiDM0019GEZZ	Slide Guide, Left	AF	51	VRD-RA2EE335J	Resistor	AA
19	NGERH1011GEZZ	Slide Gear	AB	52	VS2SD636-Q/1E	Transistor	AB
20	PGiDM0020GEZZ	Fixed Guide (Right)	AC	53	VCKZPA1HF103Z	Capacitor	AA
21	PGiDM0021GEZZ	Fixed Guide (Left)	AC	54	MSPRT0171GEFJ	Spring	AB
22	NGERW1003GEZZ	Worm Wheel	AB	55	QPLGN0912GEZZ	Plug	AC
23	LANGJ0009GEZZ	Double Action Plate worm Stopper	AC	56	MLEV00047GEZZ	Anti-Reverse Loading Lever	AB
24	LANGA0011GEZZ	Double Action Spring	AB	57	LHLDZ1070GEZZ	Anti-Reverse Loading Lever Holder	AC
25	MSPRD0022GEFJ	Drive Spring	AC	58	PGiDM0017GE00	Cassette Down Guide (not In- cluded in Ass'y)	AE
26	MARMM0022GEFD	DS Washer	AG	59	QSW-F0004GEZZ	Cassette SW (Reef SW)	AE
27	NSFTL0139GEFD	Main Shaft	AF		CHLDX3014GE28	Cassette Housing Ass'y (VC-381H, W)	BK
28	LANGF9121GEZZ	Lid Lever Angle Ass'y	AD		CHLDX3014GE32	Cassette Housing Ass'y (VC-383H)	BK
29	MLEV0123GEFW	D-Prevention Lever	AD				
30	HDECA0034GESB	Cassette Cover (VC-381H, W)	AK				
31	HDECA0034GESB	Cassette Cover (VC-383H)	AK				
32	-	-	-				
33	-	-	-				

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PACKING OF THE SET

■ Setting positions of the knobs

Main switch	at "OFF"
Video/TV selector	at "TV" Position
Tape counter	at "0000" Position
Test signal switch	at "OFF" Position
AFT switch	at "ON" Position
Rec. selector switch	at "Tuner" Position
Picture tone	at "center" Position

Tuner Selector	at "1ch" Position
Tracking knob	at "center click" Position
Rec. selector	at "Tuner" Position
Timer	at "OFF" Position
Outo mode switch	at "Outo" Position
Standby switch	at "OFF" Position
Still tracting	at "center click" Position

