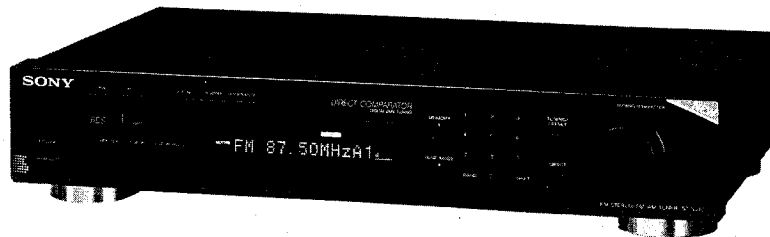


ST-S370

SERVICE MANUAL

AEP Model
UK Model



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

SPECIFICATIONS

FM tuner

Frequency range 87.5 - 108 MHz
Antenna terminals 75 ohms unbalanced
Intermediate frequency 10.7 MHz

Sensitivity at 26 dB quieting, mono
10.3 dBf, 0.9 μ V/75 ohms
at 46 dB quieting, stereo
38.5 dBf, 23 μ V/75 ohms

Signal-to-noise ratio (at 40 kHz deviation)
80 dB (mono)
76 dB (stereo)

Harmonic distortion WIDE 0.04 % (mono)
0.05 % (stereo)
NARROW 0.06 % (mono)
0.08 % (stereo)

Separation 50 dB (at 1 kHz)

Selectivity at 400 kHz WIDE 80 dB
NARROW 90 dB
at 300 kHz WIDE 45 dB
NARROW 70 dB

Output 400 mV, (at 40 kHz deviation)

AM tuner

Frequency range Except Italian model:
MW: 531 - 1,602 kHz (9 kHz step)
LW: 153 - 279 kHz (1 kHz step)

Italian model:
MW: 522 - 1,611 kHz (9 kHz step)
LW: 144 - 288 kHz (1 kHz step)

Intermediate frequency 450 kHz

Usable sensitivity MW: AM loop antenna 300 μ V/m
LW: AM loop antenna 1 mV/m

Signal-to-noise ratio 54 dB

Harmonic distortion 0.3 %

Selectivity 32 dB

General

Power requirements UK model : 240 V AC, 50/60 Hz
AEP, Germany, Italian model : 220 - 230 V AC,
(or 240 V AC adjustable by authorized Sony
personnel), 50/60 Hz

Power consumption 14 W

Dimensions Approx. 430 x 85 x 295 mm (w/h/d)
(17 x 3 3/8 x 11 5/8 inches)

Weight Approx. 3.2 kg (7 lb 1oz)

Accessories supplied

Remote control cord (1)
Connecting cord (1)
AM loop antenna (1)

Design and specifications subject to change without notice.



FM STEREO / FM-AM TUNER
SONY®

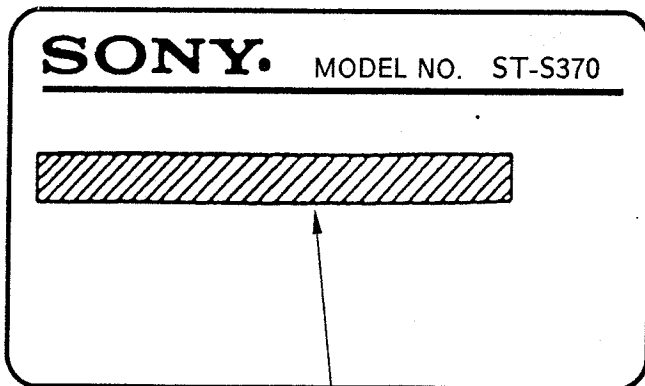
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MODEL IDENTIFICATION

- Specification Label -



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

AEP, Germany,

Italian Model : AC 220 - 230V 50/60Hz

UK Model : AC 240V 50/60Hz

SECTION 1 GENERAL

This section is extracted from instruction manual.

7

Connections

- Connect the AC power cord last. Make sure power is off.
- Cord plugs and jacks are color coded. Red plugs and jacks are for right channel (R) and white ones for left channel (L).
- Fully insert cable connectors into jacks. Loose connections may cause hum or noise.
- Keep the speaker cords, connecting cord and power cord away from the AM loop antenna or antenna lead-in of the tuner to avoid possible noise pickup

Connexions

- Le cordon d'alimentation secteur doit être raccordé en dernier. Vérifier que l'appareil est hors tension.
- Les fiches et les prises sont codées par couleur. Les fiches et prises rouges sont destinées au canal droit (R) et les fiches et prises blanches, au canal gauche (L).
- Insérer les connecteurs des cordons à fond dans les prises, car des connexions relâchées risquent de provoquer un ronronnement ou des parasites.
- Tenir les cordons des enceintes acoustiques, le cordon de liaison et le cordon d'alimentation secteur éloignés de l'antenne cadre AM ou de la descente d'antenne du tuner pour éviter que l'antenne ne capte des parasites.

Conexiones

- Conecte el cable de alimentación en último lugar. Asegúrese de que la alimentación esté desconectada.
- Las clavijas y tomas de los cables están codificadas en color. Las rojas son para el canal derecho (R) y las blancas para el izquierdo (L).
- Inserte las clavijas completamente en las tomas.
- Las conexiones flojas pueden causar zumbido y ruido.
- Mantenga los cables de los altavoces, el cable conector, y el cable de alimentación lejos de la antena de cuadro de AM o de la acometida de antena del sintonizador a fin de evitar la posible captación de ruido.

Collegamenti

- Collegare il cavo di alimentazione per ultimo. Assicurarsi che l'apparecchio sia spento.
- Le spine dei cavi e le prese sono codificate con colori diversi. Le spine e le prese rosse sono per il collegamento del canale destro (R) e le spine e le prese bianche sono per il collegamento del canale sinistro (L).
- Inserire a fondo le spine dei cavi nelle prese.
- Collegamenti allentati possono provocare ronzii o rumore.
- Tenere i cavi diffusori, il cavo di collegamento e il cavo di alimentazione lontano dall'antenna AM ad anello o dalla discesa d'antenna del sintonizzatore per evitare possibili interferenze.

CONTROL S connector (with the supplied remote control cord)
IN: Connect to the CONTROL S OUT connector of the optional Sony amplifier for whole audio system remote control.
OUT: Connect to the CONTROL S IN connector of other Sony equipment for whole audio system remote control.

Note on the CONTROL-S input

To remote control this unit through a receiver or amplifier, connect the input on this unit to the CONTROL-S output on a Sony receiver or amplifier, with a CONTROL-S cord. When this connection is used, only remote commands sent through the receiver or amplifier will be executed. The remote sensor on this unit will not function.

Connecteur CONTROL S (avec le cordon de télécommande fourni)

IN: Raccorder au connecteur CONTROL S OUT d'un amplificateur optionnel Sony pour pouvoir piloter toute la chaîne stéréo à distance.

OUT: Raccorder au connecteur CONTROL S IN d'un autre appareil Sony pour pouvoir piloter toute la chaîne stéréo à distance.

Remarque sur l'entrée CONTROL-S

Pour pouvoir piloter cet appareil à distance depuis un ampli-tuner ou un amplificateur, raccorder l'entrée de cet appareil à la sortie CONTROL-S de l'ampli-tuner ou de l'amplificateur Sony, à l'aide d'un cordon CONTROL-S.

Lorsque cette connexion est faite, seuls les messages de commande à distance envoyés par l'intermédiaire de l'ampli-tuner ou de l'amplificateur seront exécutés.

Le récepteur de télécommande infrarouge de cet appareil ne fonctionnera pas.

Conector CONTROL S (con el cable de control remoto suministrado)

IN: Conectelo al conector CONTROL S OUT de otro equipo Sony para controlar a distancia todo el audiosistema.

OUT: Conectelo al conector CONTROL S IN de otro equipo Sony para controlar a distancia todo el audiosistema.

Nota sobre la entrada CONTROL-S

Para controlar esta unidad a distancia a través de un receptor o un amplificador, conecte la entrada de esta unidad a la salida CONTROL-S de un receptor o un amplificador Sony con un cable CONTROL-S. Cuando emplee esta conexión, solamente se ejecutarán los mandatos procedentes del receptor o el amplificador. El sensor de control remoto de esta unidad no funcionará.

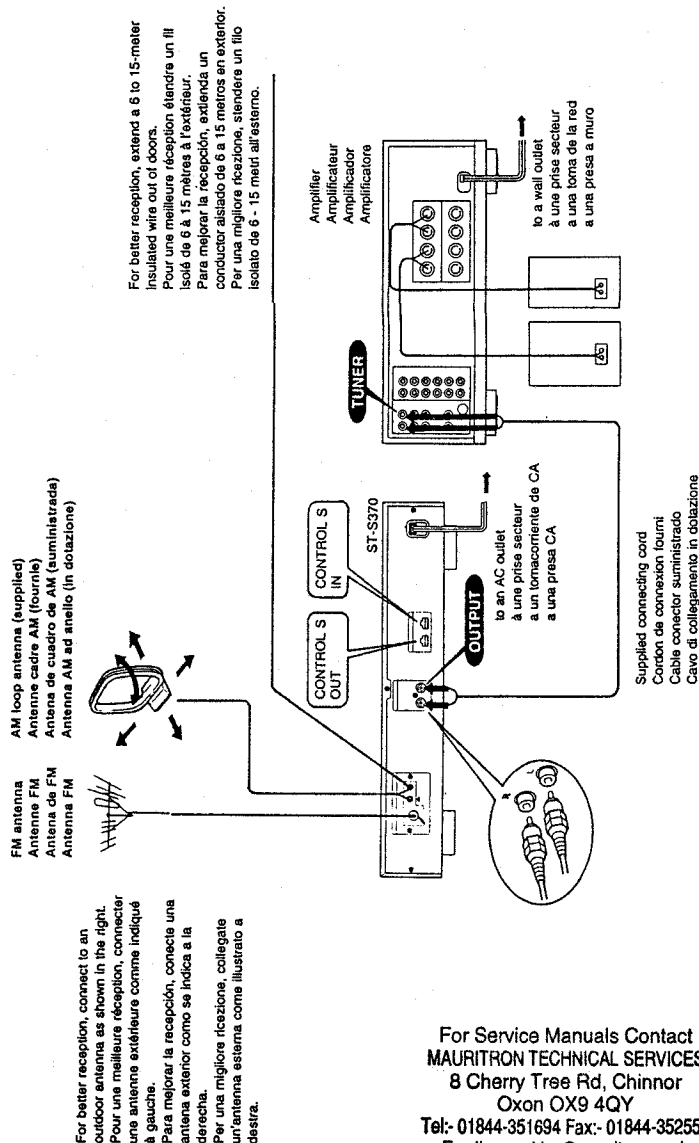
Connettore CONTROL S (con il cavo di comando a distanza in dotazione)

IN: Collegarlo al connettore CONTROL S OUT di un altro apparecchio Sony per il comando a distanza dell'intero sistema audio.

OUT: Collegarlo al connettore CONTROL S IN di un altro apparecchio Sony per il comando a distanza dell'intero sistema audio.

Nota sull'ingresso CONTROL-S

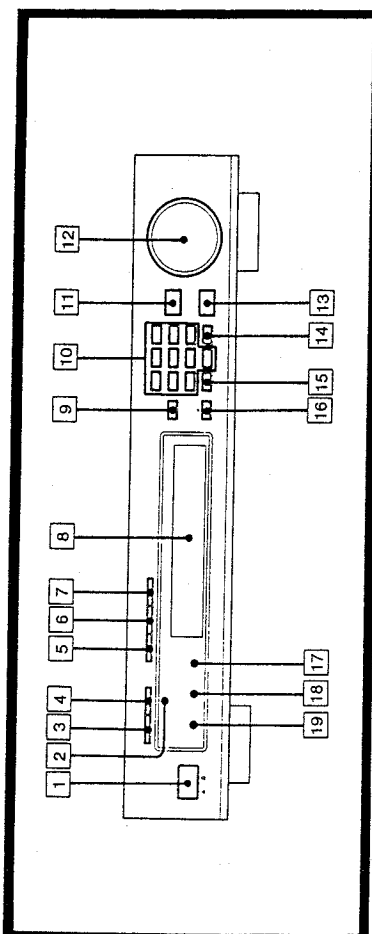
Per controllare a distanza questo apparecchio tramite un ricevitore o un amplificatore, collegare l'ingresso su questo apparecchio all'uscita CONTROL-S di un ricevitore o amplificatore Sony, usando un cavo CONTROL-S. Quando si usa questo collegamento, solo i comandi a distanza inviati tramite il ricevitore o l'amplificatore saranno eseguiti. Il sensore di comando a distanza di questo apparecchio rimane inattivo.



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Parts Identification

Nomenclature



- 1 POWER switch
2 WAIT indicator
3 RDS button
4 AF button
5 ANT ATT (antenna attenuator) button
6 IF (intermediate frequency) BAND button
7 STEREO/MUTE button

AUTO STEREO/MUTING ON: Normally, select this mode (by making the MUTING indicator appear and MONO indicators disappear from the display window) when you tune in a strong FM broadcast.

The muting circuit is activated to eliminate interstation noise while tuning so that the FM station is received in stereo mode.

MONO/MUTING OFF: Select this position when you tune in a very weak or noisy FM station. Although the sound will come out in monaural, the noise will be greatly reduced. Be sure to keep the sound level of the connected amplifier down to avoid speaker damage caused by interstation noise during tuning.

- 8 Display window
9 MEMORY button
10 Preset buttons
11 TUNING/PRESET button
12 TUNING/CHARACTER knob
13 DIRECT button
14 SHIFT button
15 BAND selector
16 TUNE MODE button
17 DISPLAY MODE button
18 DISPLAY button
19 CHARACTER button

- Interrupteur d'alimentation (POWER)
Témoin d'attente (WAIT)

Touche RDS (Radio Data System)

Touche de fréquences alternatives (AF)

Touche d'atténuateur d'antenne (ANT ATT)

Touche de gamme de fréquence intermédiaire (IF BAND)

7 Sélectionneur de mode de réception FM (STEREO/MUTE) **AUTO STEREO/MUTING ON:** En principe, sélectionner ce mode (afficher le témoin MUTEING et éteindre les témoins MONO) lorsqu'une émission FM à signal puissant est accordée. Le circuit de mise en sourdine est alors activé pour éliminer les parasites d'accord de sorte que la station FM peut être captée en mode stéréo.

MONO/MUTING OFF: Sélectionner cette position pour accorder une station FM très faible ou qui présente beaucoup d'interférences. L'effet stéréo est éliminé, mais le souffle est considérablement réduit. Maintenir le son de l'amplificateur à un faible niveau pour éviter que les parasites audibles entre les stations, lors de l'accord, endommagent les haut-parleurs.

8 Afficheur

Touche de mémorisation (MEMORY)

Touche de présélection (PRESET)

Sélectionneur d'accord/présélection (TUNING/PRESET)

Bouton d'accord/caractères (TUNING/CHARACTER)

Touche d'accord direct (DIRECT)

Sélectionneur de page de mémoire (SHIFT)

Sélectionneur de gamme de fréquence (BAND)

Touche de mode d'accord (TUNE MODE)

Touche de mode d'affichage (DISPLAY MODE)

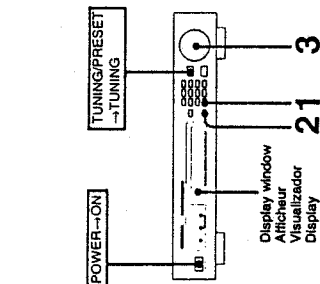
Touche d'affichage (DISPLAY)

Touche de caractères (CHARACTER)

Receiving Broadcasts

Tuning in Automatically

Before reception, be sure to connect the AM and FM antenna.



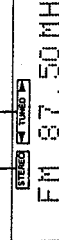
To receive other stations

When the received station is not the one you want, turn TUNING/CHARACTER knob again.

To receive a strong FM broadcast
Normally, set STEREO/MUTE on (press STEREO/MUTE so that the MUTE indicator appears on the display) to reduce noise. Also set to auto stereo mode. The unit operates in the stereo mode for a stereo signal, and automatically switches to the monoaural mode for a monoaural signal.

Indicators in the display window

STEREO indicator
Indicatore STEREO



STEREO indicator: Lights when an FM stereo program is tuned in.

Signal indicator: Indicates the signal strength of the station being received.

TUNED indicator: Lights when a station is tuned in accurately.

Direction indicators:

▲ : Lights when the frequency or the preset number increases.

▼ : Lights when the frequency or the preset number decreases.

Réception des émetteurs

Accord automatique

Avant d'essayer d'accorder une station, ne pas oublier de connecter les antennes AM et FM.

1 Select the band.
Sélectionner la gamme de fréquence.
Selecione la banda.
Selezione la banda.



FM

2



FM

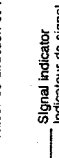
Pour capter d'autres stations

Si la station accordée n'est pas celle de votre choix, il suffit de tourner encore une fois le bouton d'accord.

Réception d'une émission FM à signal puissant
En principe, mettre STEREO/MUTE en service (appuyer sur la touche STEREO/MUTE pour afficher le témoin MUTE) pour réduire les parasites. Mettre également le mode stéréo automatique en service. L'appareil fonctionnera alors automatiquement en stéréo lors de la réception d'un signal stéréo et en mono lors de la réception d'un signal mono.

Informations sur l'afficheur

Direction and TUNED indicator
Indicateur de direction et TUNED



Indicateur STEREO: Il s'allume lors de l'accord d'un programme stéréo FM.

Indicateur de signal: Il indique l'intensité du signal de la station reçue.

Indicateur TUNED: Il s'allume lorsqu'un émetteur est capté avec précision.

Indicateurs de direction:

▲ : Il s'allume lorsque la fréquence ou le numéro de présélection augmente.

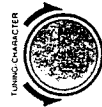
▼ : Il s'allume lorsque la fréquence ou le numéro de présélection diminue.

Radorrecepción

Sintonía automática

Antes de la recepción, asegúrese de conectar las antenas de AM y FM suministradas.

3 For a lower frequency
Pour une fréquence plus basse
Para una frecuencia inferior
Per frequenze inferiori



Turn TUNING/CHARACTER, then release.

Automatic tuning starts and stops at the station with a sufficient signal strength.

Tourner le bouton d'accord, puis le relâcher.

L'accord automatique commence et s'arrête à la première station avec un signal d'une intensité suffisante.

Gire TUNING/CHARACTER, y después suéltelo.

La sintonía automática se iniciará, y se parará en una emisora de señal suficientemente intensa.

Grare TUNING/CHARACTER, e poi rilasciare.

La sintonizzazione automatica si attiva e si ferma in corrispondenza di una stazione con forza di segnale sufficiente.

Para recibir otras emisoras

Cuando la emisora recibida no sea la deseada, vuelva a girar TUNING/CHARACTER.

Para recibir una emisora de FM de señal intensa

Normalmente ponga STEREO/MUTE en ON (presión STEREO/MUTE de forma que en el visualizador aparezca el indicador MUTE) a fin de reducir el ruido. Además, establezca el modo de estéreo automático. La unidad funcionará en el modo estéreo con una señal estéreo, y cambiará automáticamente al modo monoaural para una señal monoaural.

Indicadores de la ventanilla visualizadora

Indicador STEREO
Indicatore STEREO



Indicador STEREO: Se encenderá cuando se sintonice un programa de FM estéreo.

Indicador de señal: Mostrará la intensidad de la señal de la emisora que esté recibiendo.

Indicador TUNED: Se encenderá cuando se sintonice con precisión una emisora.

Indicadores de sentido:

▲ : Se encenderá cuando aumente la frecuencia o el número de emisora memorizada.

▼ : Se encenderá cuando disminuya la frecuencia o el número de emisora memorizada.

Per ricevere altre stazioni

Se la stazione sintonizzata non è quella desiderata, girare di nuovo la manopola TUNING/CHARACTER.

Per ricevere una stazione FM dal segnale forte

Normalmente attivare STEREO/MUTE (premere STEREO/MUTE in modo che l'indicatore MUTE appaia sul display) per ridurre il rumore. Inoltre regolare il modo di stereo automatico. L'apparecchio funzionerà in modo stereo per segnali stereo, e passa automaticamente al modo monoaurale per segnali monoaurali.

Indicatori sul display

Indicatori de sentido y TUNED
Direzione e indicatore TUNED



Indicatore STEREO: Si illumina quando viene sintonizzata una stazione FM stereo.

Indicatore di segnale: Indica la forza di segnale della stazione ricevuta.

Indicatore TUNED: Si illumina quando una stazione sintonizzata precisamente.

Indicatori di direzione:

▲ : Si illumina quando la frequenza o il numero di preselezione aumenta.

▼ : Si illumina quando la frequenza o il numero di preselezione diminuisce.

Receiving Broadcasts

Writing a Comment about a Station

You can write a comment of up to 8 characters for each stored station. Every time the stored station is tuned in directly, the memo appears in the window instead of its frequency.

Réception des émetteurs

Réception des émetteurs

Mémorisation d'un commentaire pour chaque station
Vous pouvez écrire un commentaire allant jusqu' 8
caractères pour chaque station mémorisée. A Chaque fois
que vous accordez directement une station mémorisée, le
commentaire apparaît sur l'afficheur au lieu de la fréquence.

Radiorrepción

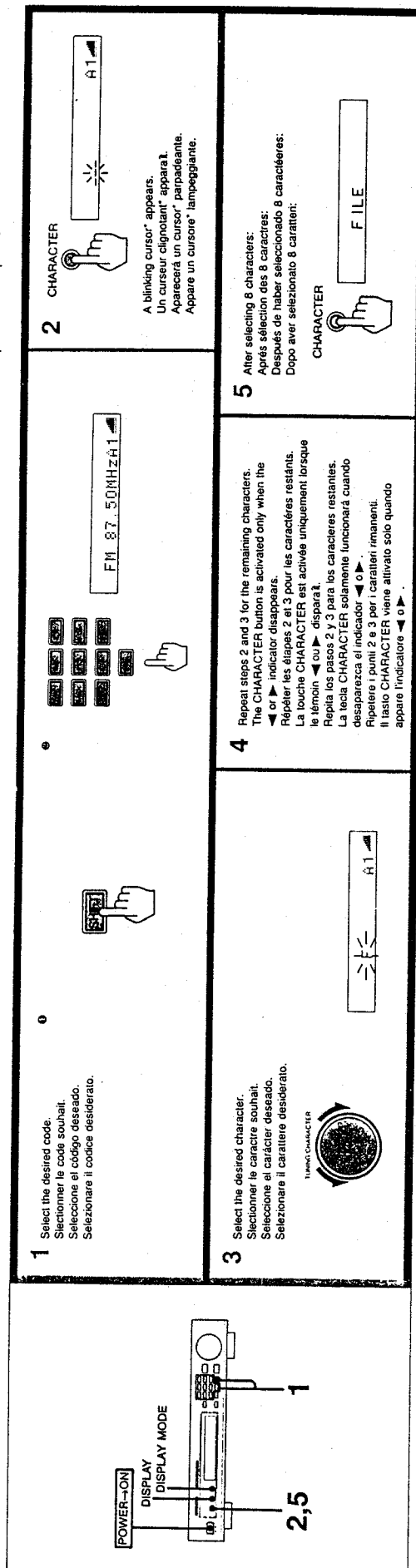
Escritura de un comentario sobre una emisora

Usted podrá escribir un comentario de hasta 8 caracteres para cada una de las emisoras almacenadas. Cada vez que sintonice directamente una emisora almacenada, el memorando aparecerá en la ventanilla visualizadora en vez de su frecuencia.

Ricezione radiofonica

Scrittura di un commento su una stazione

È possibile scrivere un commento di un massimo di 8 caratteri per ciascuna stazione memorizzata. Ogni volta che viene sintonizzata direttamente una stazione memorizzata, il promemoria relativo a quella stazione appare sul display al posto della frequenza.



Indicates where a character will be written.

Usable letters and symbols

For the memo, a space or 159 different characters can be used. When the TUNING/CHARACTER knob is turned to the right, a blinking cursor appears first and you can select a blank space. As you continue to turn the TUNING/CHARACTER knob, letters and symbols will appear in the following order.

* Indique l'endroit où le caractère sera posé.

Lettres et symboles utilisables

Pour le commentaire, vous pouvez utiliser un espace et 159 caractères différents. Lorsque vous tournez le bouton d'accord vers la droite, un curseur clignotant apparaît d'abord et vous pouvez sélectionner un espace blanc. Si vous continuez de tourner le bouton d'accord vers la droite, les lettres et symboles défilent dans l'ordre suivant.

[illegible]

To call up a previous character, turn the TUNING/PRESET CHARACTER knob to the left.

Pour rappeler un caractère déjà passé, tourner le bouton d'accord vers la gauche.

* Indica dónde se escribirá un carácter.

Caracteres utilizables

Para el memorando podrá emplear un espacio o 159 caracteres diferentes. Cuando gire el mando TUNING/CHARACTER hacia la derecha, aparecerá un cursor parpadeante, y usted podrá seleccionar un espacio en blanco. A medida que continúe girando el mando TUNING/CHARACTER, los caracteres aparecerán en el orden siguiente.

* Indica dove verrà scritto il carattere.

Lettere e simboli disponibili

Per il promemoria stazione sono disponibili 159 caratteri differenti e lo spazio. Quando si gira la manopola TUNING/CHARACTER verso destra, appare prima un cursore lampeggiante e si può quindi selezionare uno spazio vuoto. Se si continua a girare la manopola, lettere e simboli appaiono nel seguente ordine.

(space) A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [\] ^ _ ` { | } ~ . , - ! " # \$ % & ' ( ) \* + = : ; < > ? @ [space] A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ \_ ` { | } ~ . , - ! " # \$ % & ' () * + = : ; < > ? @

Per richiamare un carattere precedente, girare la manopola TUNING/CHARACTER verso sinistra.

Receiving Broadcasts

Receiving RDS (Radio Data System) Service

Some FM stations have started RDS services which is a method to display certain information with the program. By setting the tuner in the RDS mode, you can:

- display the station name and time ... PS (Program Service name), CT (clock time) display service
- receive emergency announcements ... PTY (Program Type) display service
- receive traffic information announcements ... TP (Traffic Program Identification)/TA (Traffic Announcement) service
- Also, you can receive better frequency for your station ... PI (Program Identification) and AF (Alternative Frequency list)

To receive display service

When listening to an FM program,
Press RDS so that "RDS" appears in the window.
If the station you are receiving is an RDS station, "RDS Service" appears and the station name will be displayed.
If the station you are receiving is not an RDS station, "No RDS Signal" will be displayed. In such case,

Réception des émetteurs

Réception du service RDS (Radio Data System)

Certaines stations FM sont équipées du système RDS qui sert à diffuser et afficher certaines informations en même temps que le programme. Lorsque vous mettez le tuner en mode RDS, vous pouvez:

- Affichez le nom de la station et l'heure, des services PS (Program Service name) et CT (Clock Time)
- capter des messages prioritaires ... service PTY (program type; type de programme)
- reçoit les bulletins d'informations routières ... les services TP (Traffic Program Identification)/TA (Traffic Announcement)
- La meilleure fréquence de la station choisie peut également être captée grâce aux services PI (Program Identification) et AF (Alternative Frequency)

Pour recevoir les services RDS

Pendant l'écoute d'un programme FM,
Appuyez sur RDS de manière à allumer "RDS" sur l'afficheur.
Si la station captée est une station RDS, l'indication "RDS Service" est affichée ainsi que le nom de la station.
Si la station n'a pas de service RDS, "No RDS Signal" est affiché. Dans ce cas,

Radiorecepción

Recepción del servicio del sistema de datos por radio (RDS)

Algunas emisoras de FM han iniciado la emisión de servicios del sistema RDS, que es un método de visualizar cierta información con el programa. Si pone el sintonizador en el modo RDS, podrá:

- visualizar el nombre de la emisora y la hora ... Servicio de visualización de PS (nombre del servicio del programa), de visualización de CT (hora)
- recibir anuncios de emergencia ... Servicio de visualización de PTY (tipo de programa)
- recibir anuncios sobre el tráfico ... Servicio de visualización de TP (identificación de programa sobre tráfico)/TA (anuncios sobre el tráfico)
- Además, usted podrá recibir la mejor frecuencia de su emisora ... PI (identificación de programa) y AF (lista de frecuencias alternativas)

Para recibir el servicio de visualización

Cuando esté escuchando un programa de FM,
Presione RDS de forma que en el visualizador aparezca "RDS".
Si la emisora que está recibiendo es del sistema RDS, aparecerá "RDS Service" y se visualizará el nombre de la misma. Si la emisora que está recibiendo no es del sistema RDS, se visualizará "No RDS Signal". En tal caso:

Ricezione radiofonica

Ricezione del servizio RDS (Radio Data System)

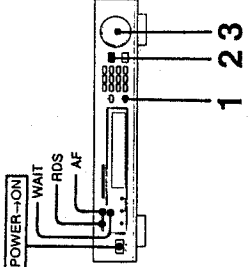
Alcune stazioni FM hanno dato inizio al servizio RDS, che un metodo per visualizzare determinate informazioni contemporaneamente alla trasmissione del programma. Regolando il sintonizzatore nel modo RDS, possibile:

- Servizio di visualizzazione del nome della stazione e l'orario ... PS (Servizio del nome di programma), CT (orario)
- ricevere annunci di emergenza ... Servizio di visualizzazione PTY (tipo di programma)
- Servizio di ricezione di notizie sul traffico ... TP (Identificazione di programmi sul traffico)/TA (Notiziari sul traffico)
- Inoltre, è possibile ricevere la migliore frequenza per la stazione desiderata ... Funzioni PI (Identificazione programmi) e AF (Lista di frequenze alternative)

Per ricevere il servizio di visualizzazione

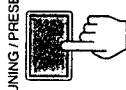
Durante l'ascolto di un programma FM,
Premiere RDS in modo che "RDS" appaia sul display.
Se la stazione che si sta ricevendo è una stazione RDS, appare "RDS Service" e il nome della stazione verrà visualizzato.
Se la stazione che si sta ricevendo non è una stazione RDS, verrà visualizzato "No RDS Signal". In questo caso,

1



Press TUNE MODE so that "AUTO" appears in the window.
Appuyez sur TUNE MODE de manière à allumer "AUTO" sur l'afficheur.
Presione TUNE MODE de forma que en el visualizador aparezca "AUTO".
Premiere TUNE MODE in modo che "AUTO" appaia sul display.

2



Press TUNING/PRESET so that "TUNING" appears.
Presione TUNING/PRESET de forma que en el visualizador aparezca "TUNING".
Appuyez sur TUNING/PRESET pour allumer "TUNING".
Premiere TUNING/PRESET in modo che appaia "TUNING".

3



Turn the TUNING knob.
Tourner le bouton d'accord.
Gire el mando TUNING/CHARACTER.
Girare la manopola TUNING.

The tuner will search for other RDS station and first station name will be displayed.
Le tuner recherche une autre station RDS et le nom de la première station apparaît sur l'afficheur.
El sintonizador buscará otras emisoras y visualizará la primera del sistema RDS.
Il sintonizzatore ricerca altre stazioni RDS e il nome della prima stazione viene visualizzato.

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SECTION 2 ADJUSTMENTS

- Refer to Adjustment Location on page 10.

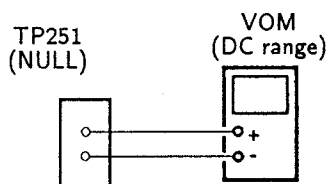
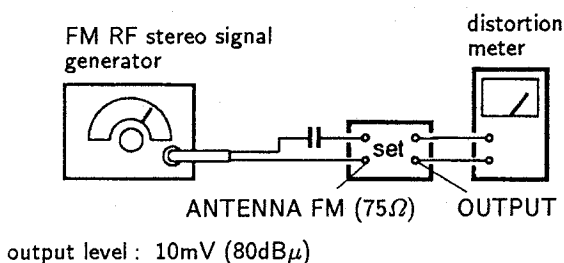
Note: As a front-end (FE101, 421 etc.) is difficult to repair if faulty, replace it with new one.

FM SECTION

- Standard Setting of FM Stereo RF Signal Generator.

STEREO STANDARD SIGNAL	MONAURAL STANDARD SIGNAL
Carrier frequency : 98MHz Modulation : Audio 1kHz, 40kHz deviation Subchannel 38kHz, 40kHz deviation Pilot 19kHz, 7.5kHz deviation	98MHz 1kHz, 40kHz deviation

FM Discriminator Adjustment (NULL and MONO Distortion)

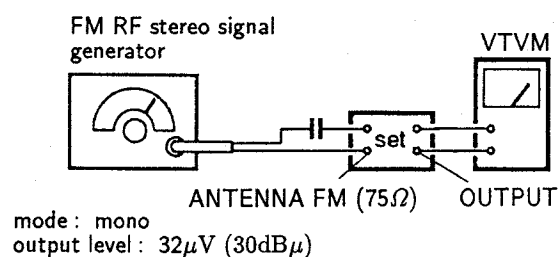


Procedure :

- Tune the set to 98MHz.
- Adjust T252 for 0V reading on the VOM.
..... NULL
- Adjust T253 for a minimum reading on the distortion meter. MONO Distortion
- Repeat the adjustments of 2 and 3 several times.

Note: When replacing the ceramic filter, perform this alignment.

FM Muting Level Adjustment



Procedure :

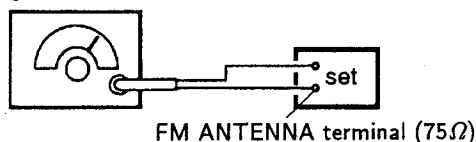
- Tune the set to 98MHz.
- Push the MUTING switch and put on the light the "MUTING" indicator in the fluorescent display.
- Set SSG output level to 32μV (30dBμ).
- Adjust RV251 so that the reading of VTVM becomes within 25μV (28dBμ) - 40μV (32dBμ).

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M Signal Level Adjustment

FM RF stereo signal generator



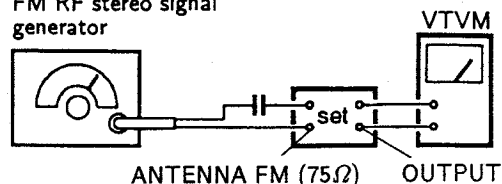
modulation : no modulation
output level : 10mV (80dBμ)

Procedure :

1. Tune the set to 98MHz.
2. Push the display button to change the display mode for signal strength indication.
3. Adjust RV221 to the place where level 10 in the signal strength bar indicator lights and "75dB" indication lights on fluorescent tube.

FM Narrow Gain Adjustment

FM RF stereo signal generator



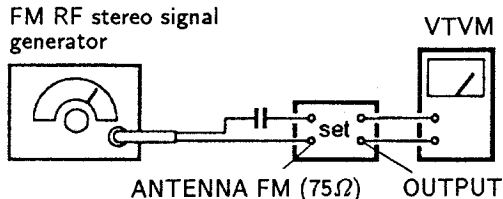
mode : mono
output level : 32μV (30dBμ)

Procedure :

1. Tune the set to 98MHz.
2. Push the IF BAND switch and put on the light the "NARROW" indicator in the fluorescent display.
3. Set SSG output level to 32μV (30dBμ).
4. Adjust RV231 so that the reading on VTVM becomes within 25μV (28dBμ) – 40μV (32dBμ).

M Stereo Separation Adjustment

FM RF stereo signal generator



mode : Stereo
output level : 10mV (80dBμ)

Procedure :

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ [Ⓐ] Adjust RV301 minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ [Ⓒ] Adjust RV301 for minimum reading.

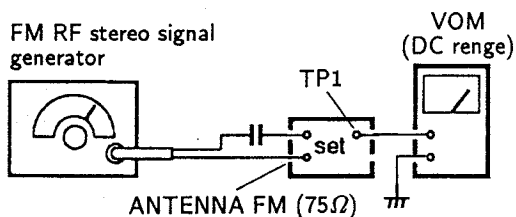
L-CH Stereo separation : Ⓐ – Ⓑ

R-CH Stereo separation : Ⓒ – Ⓓ

The separation of both channels should be equal.

RDS, BPF Adjustment

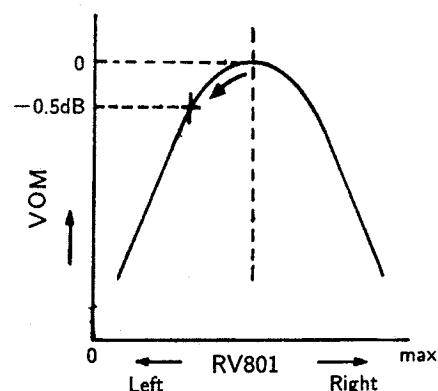
FM RF stereo signal generator



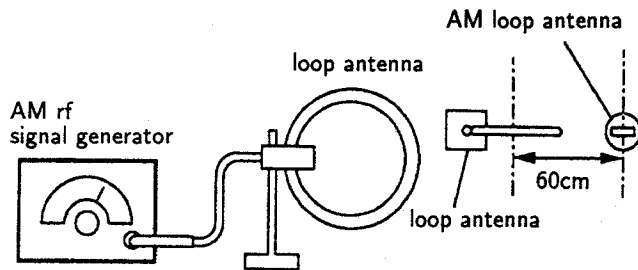
output level : 10mV (80dBμ)
RDS Modulation : 2kHz deviation

Procedure :

1. Turn RV801 to counterclockwise (left) and set the level below 0.5dB than maximum reading on the VOM. (refer to below drawing.)

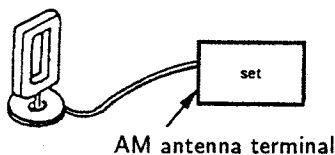


AM SECTION



Carrier frequency : 216kHz (LW Band)

AM loop antenna



$$\text{dB}\mu/\text{m} = (\text{SSG output level}) - 26\text{dB}$$

AM Signal Level Adjustment

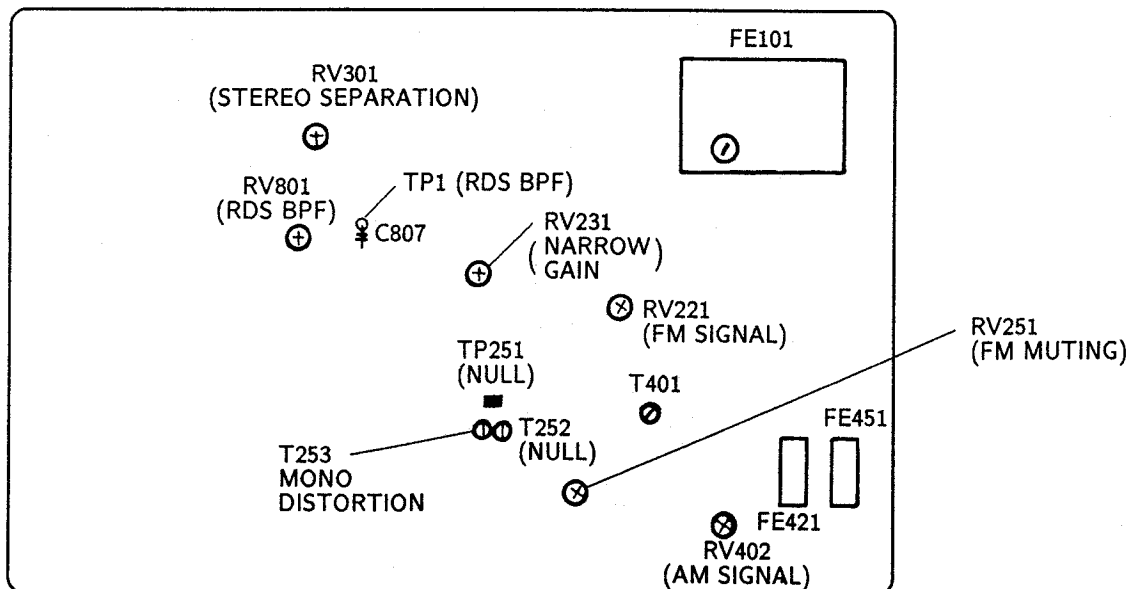
Procedure :

1. Set SSG output level so that antenna input level of the set becomes 5.0mV (74dB μ /m).
2. Adjust RV402 to the place where level 10 in the signal strength indicator turns from dark to light.

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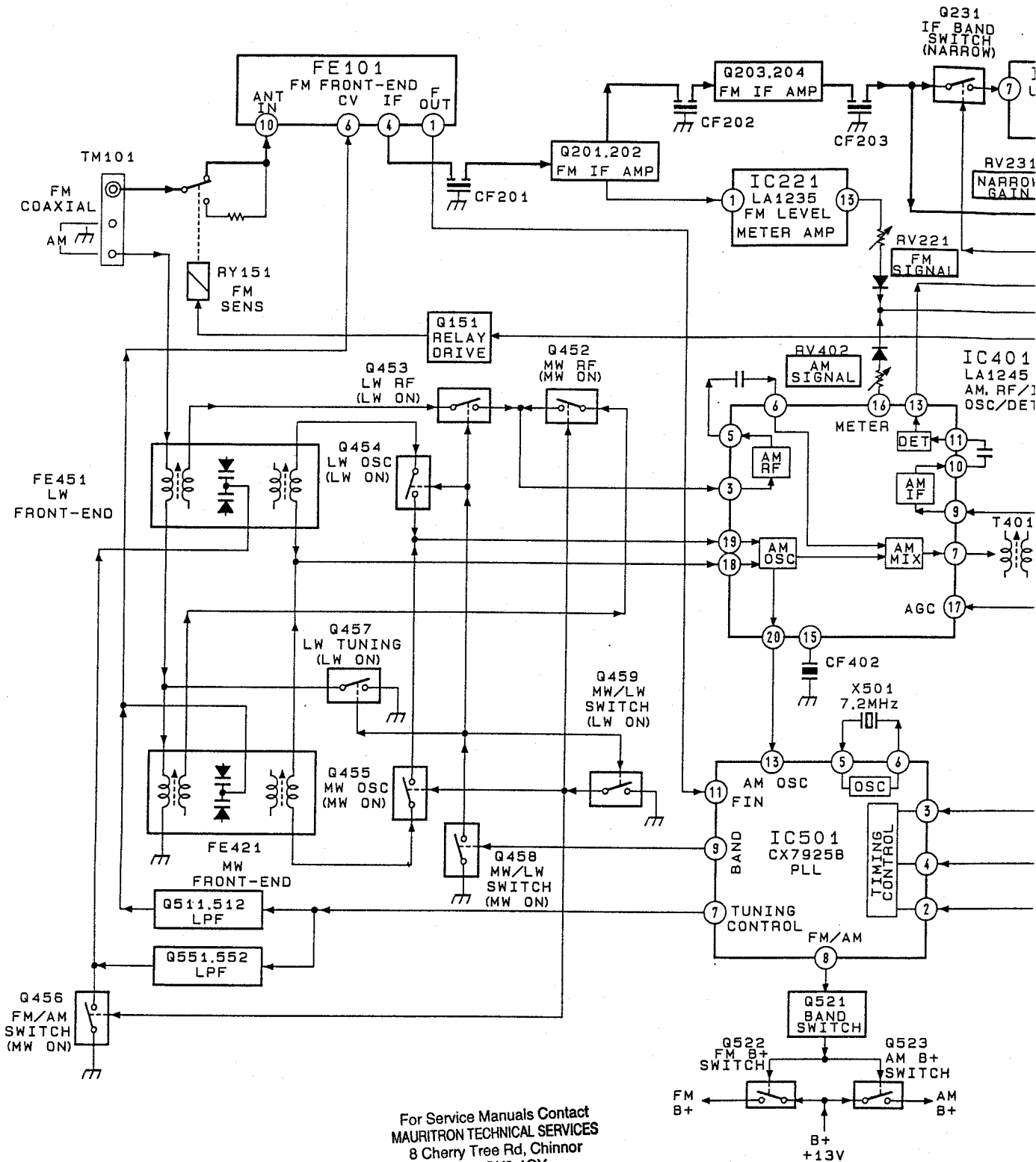
Adjustment Location

- TUNER BOARD -
(Component Side)



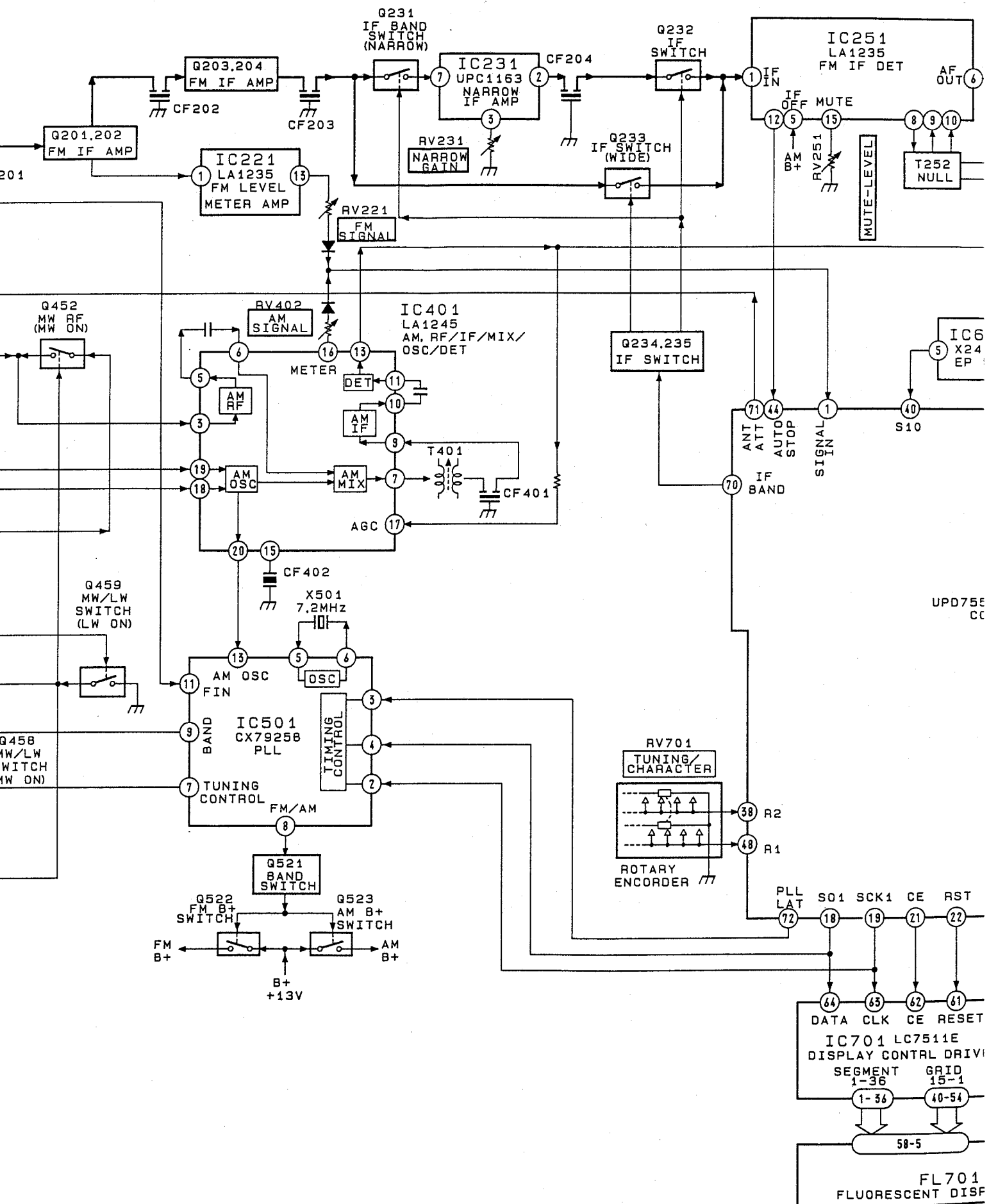
SECTION 3 DIAGRAMS

3-1. BLOCK DIAGRAM

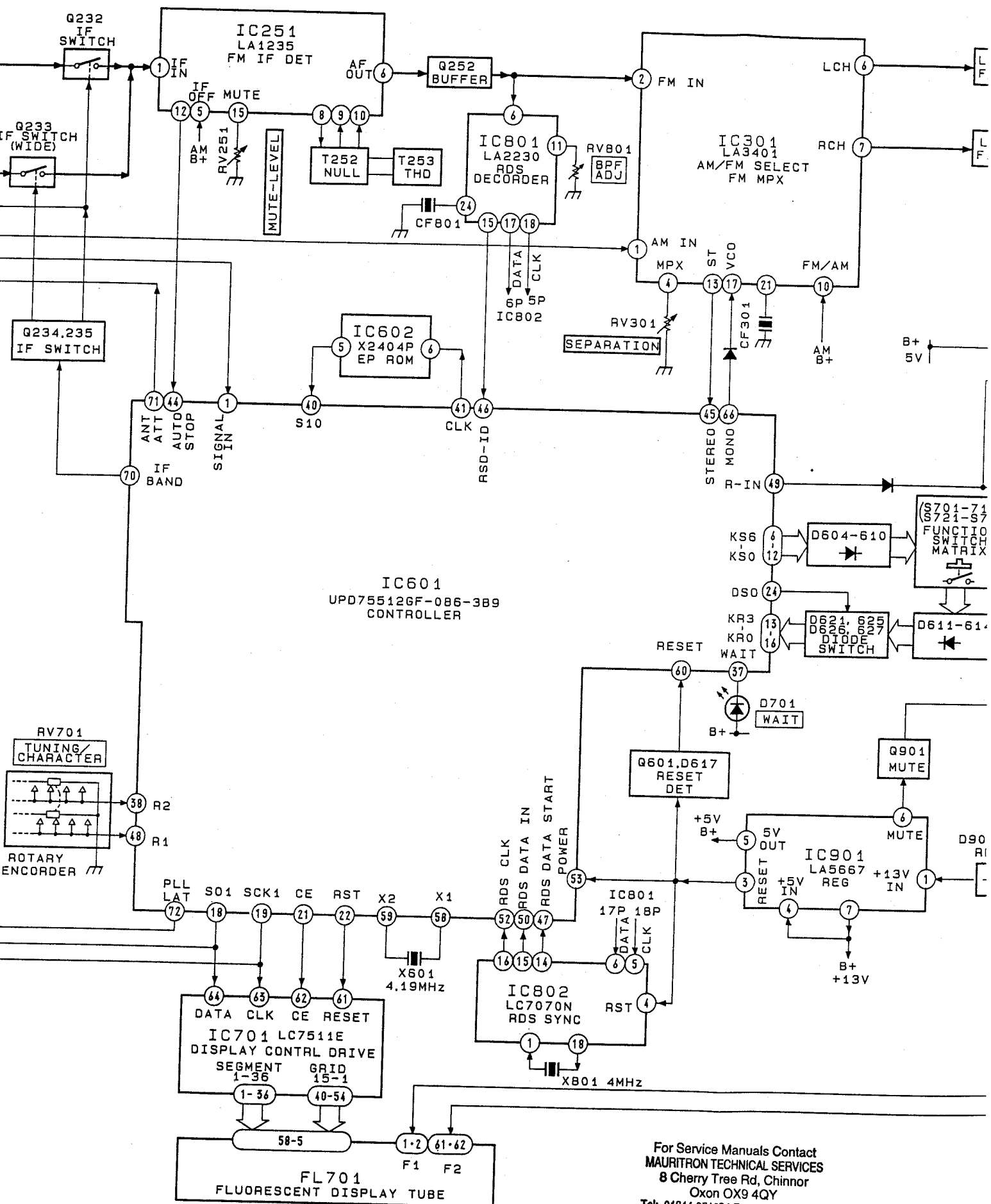


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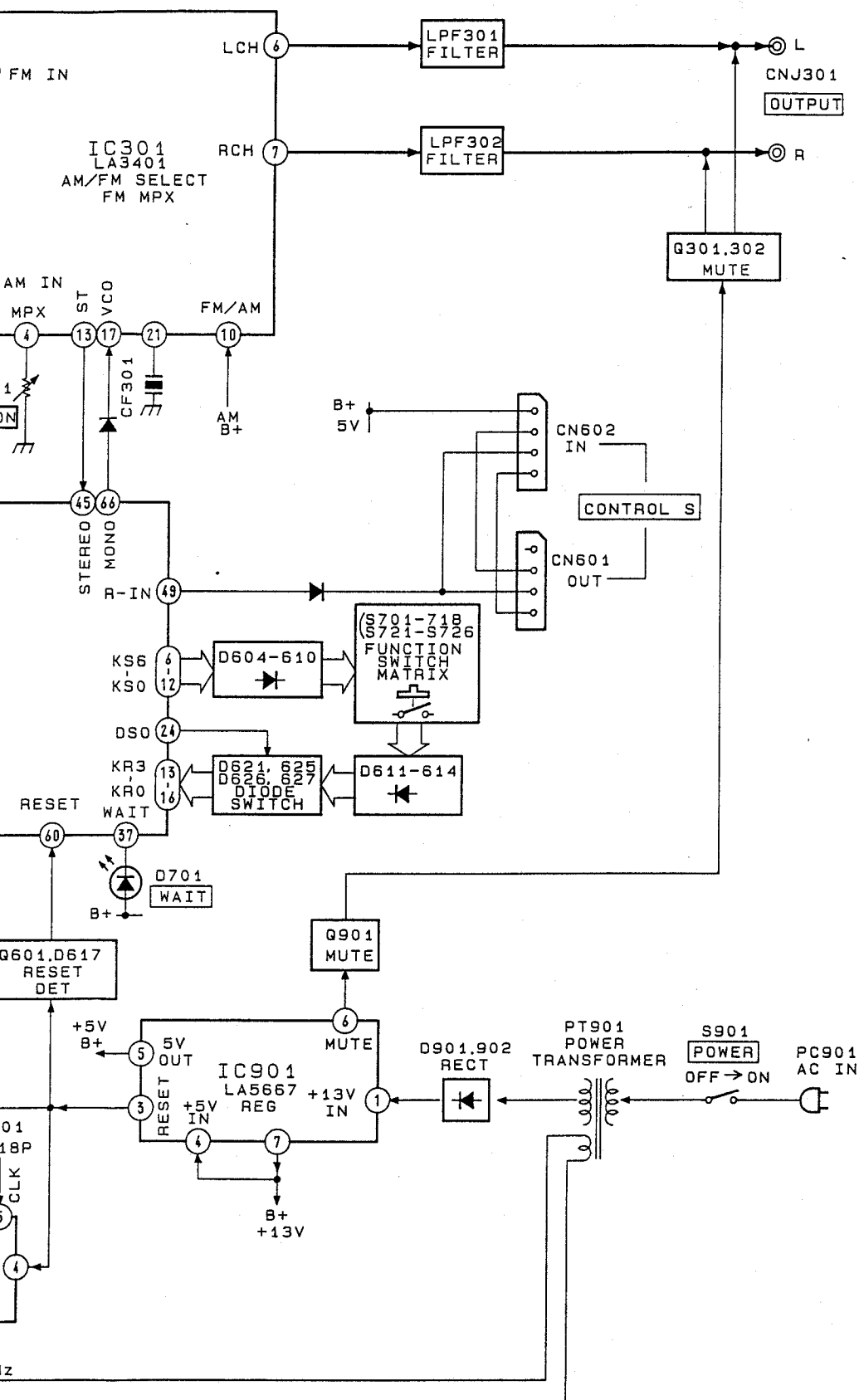
3
S



UPD75E
CC



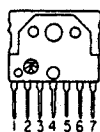
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• SEMICONDUCTOR LEAD LAYOUTS

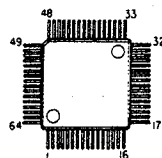
LA5667



2SC3112-B



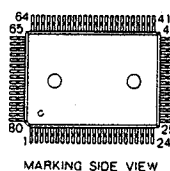
LC75711E



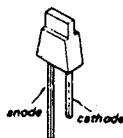
2SK246-GR3



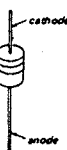
μ PD75512GF-
086-3B9



HZS27-2L



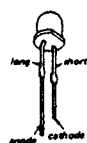
HZS7B2L
1SS120
11ES2



DTA144ES
DTC144ES
2SC2603-EF
2SC2669-OY
2SC3623A-LK
2SC3860-TP



SEL2810A-C



DTC114TS
2SA1175-HFE



• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D151	D-3	Q151	D-3
D221	F-6	Q201	E-6
D301	B-10	Q202	E-6
D402	H-9	Q203	E-7
D601	I-9	Q204	E-7
D602	H-9	Q231	E-8
D604	I-9	Q232	E-8
D605	I-9	Q233	E-8
D606	I-9	Q234	F-8
D607	I-9	Q235	F-8
D608	I-9	Q252	G-8
D609	I-10	Q301	B-9
D610	I-10	Q302	B-8
D611	I-10	Q452	G-4
D612	I-10	Q453	G-4
D613	I-10	Q454	H-4
D614	I-10	Q455	H-4
D615	B-12	Q456	H-2
D616	G-11	Q457	G-3
D617	G-10	Q458	I-4
D618	F-11	Q459	H-4
D621	I-11	Q511	D-3
D701	K-14	Q512	D-2
D901	B-7	Q521	D-4
D902	B-7	Q522	D-4
D903	B-6	Q523	D-5
D904	B-6	Q551	E-3
D905	B-5	Q552	E-2
D906	H-13	Q601	G-10
		Q901	B-7
IC221	F-6		
IC231	D-8		
IC251	G-7		
IC301	C-10		
IC401	H-5		
IC501	E-4		
IC601	H-10		
IC602	H-11		
IC701	L-10		
IC801	E-10		
IC802	F-10		
IC901	C-7		

Note :

- ○ — : parts extracted from the component side.
- [] ← indicates side identified with part number.
- [] : Pattern on the side which is seen.
- IT : Italian

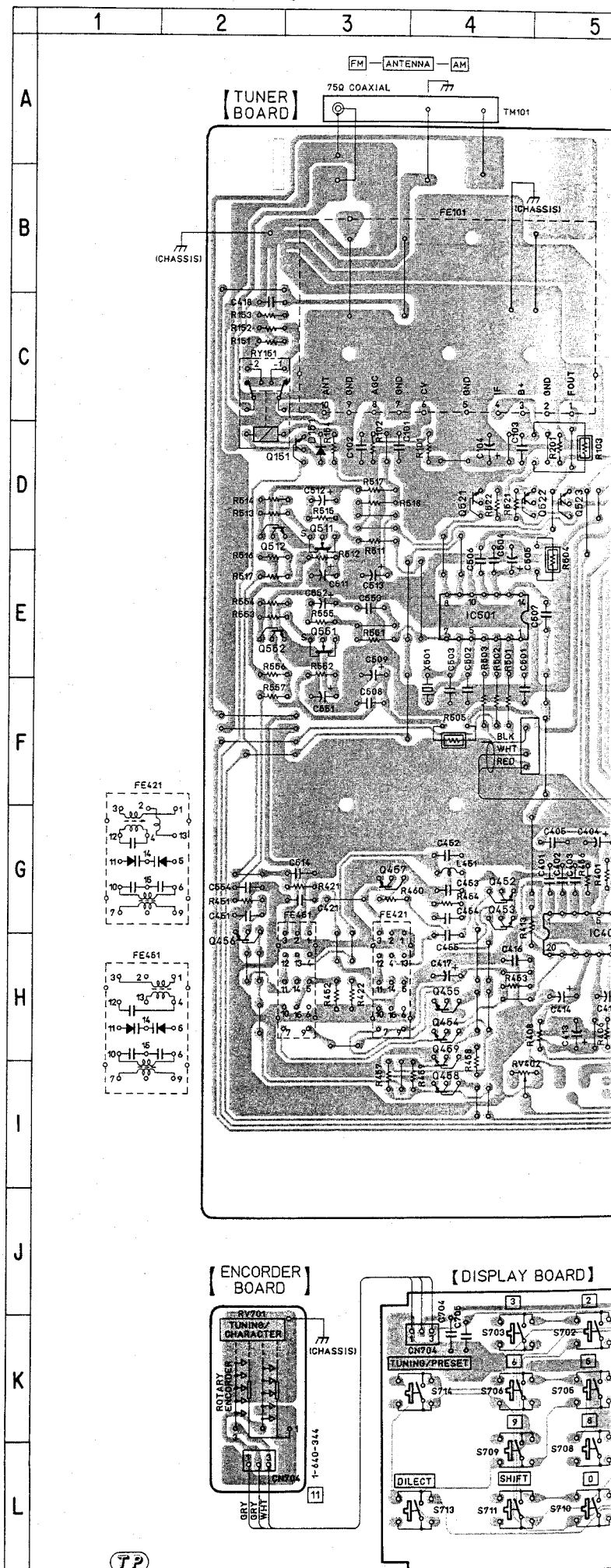
3-2. PRINTED WIRING BOARDS

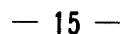
• SEMICONDUCTOR LOCATION

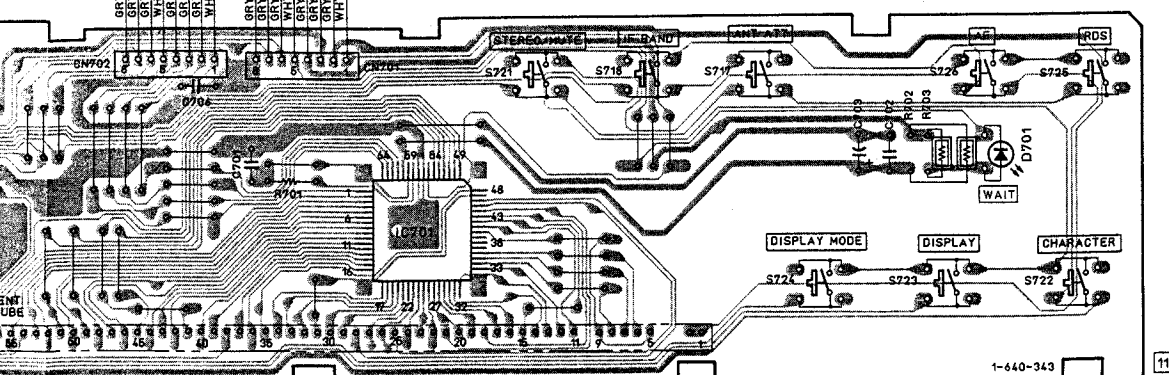
Ref. No.	Location	Ref. No.	Location
D151	D-3	Q151	D-3
D221	F-6	Q201	E-6
D301	B-10	Q202	E-6
D402	H-9	Q203	E-7
D601	I-9	Q204	E-7
D602	H-9	Q231	E-8
D604	I-9	Q232	E-8
D605	I-9	Q233	E-8
D606	I-9	Q234	F-8
D607	I-9	Q235	F-8
D608	I-9	Q252	G-8
D609	I-10	Q301	B-9
D610	I-10	Q302	B-8
D611	I-10	Q452	G-4
D612	I-10	Q453	G-4
D613	I-10	Q454	H-4
D614	I-10	Q455	H-4
D615	B-12	Q456	H-2
D616	G-11	Q457	G-3
D617	G-10	Q458	I-4
D618	F-11	Q459	H-4
D621	I-11	Q511	D-3
D701	K-14	Q512	D-2
D901	B-7	Q521	D-4
D902	B-7	Q522	D-4
D903	B-6	Q523	D-5
D904	B-6	Q551	E-3
D905	B-5	Q552	E-2
D906	H-13	Q601	G-10
		Q901	B-7
IC221	F-6		
IC231	D-8		
IC251	G-7		
IC301	C-10		
IC401	H-5		
IC501	E-4		
IC601	H-10		
IC602	H-11		
IC701	L-10		
IC801	E-10		
IC802	F-10		
IC901	C-7		

Note :

- — : parts extracted from the component side.
- — : indicates side identified with part number.
- ▨ : Pattern on the side which is seen.
- IT : Italian







3-3. SCHEMATIC DIAGRAM

1

2

3

4

5

6

A

B

C

D

E

F

G

H

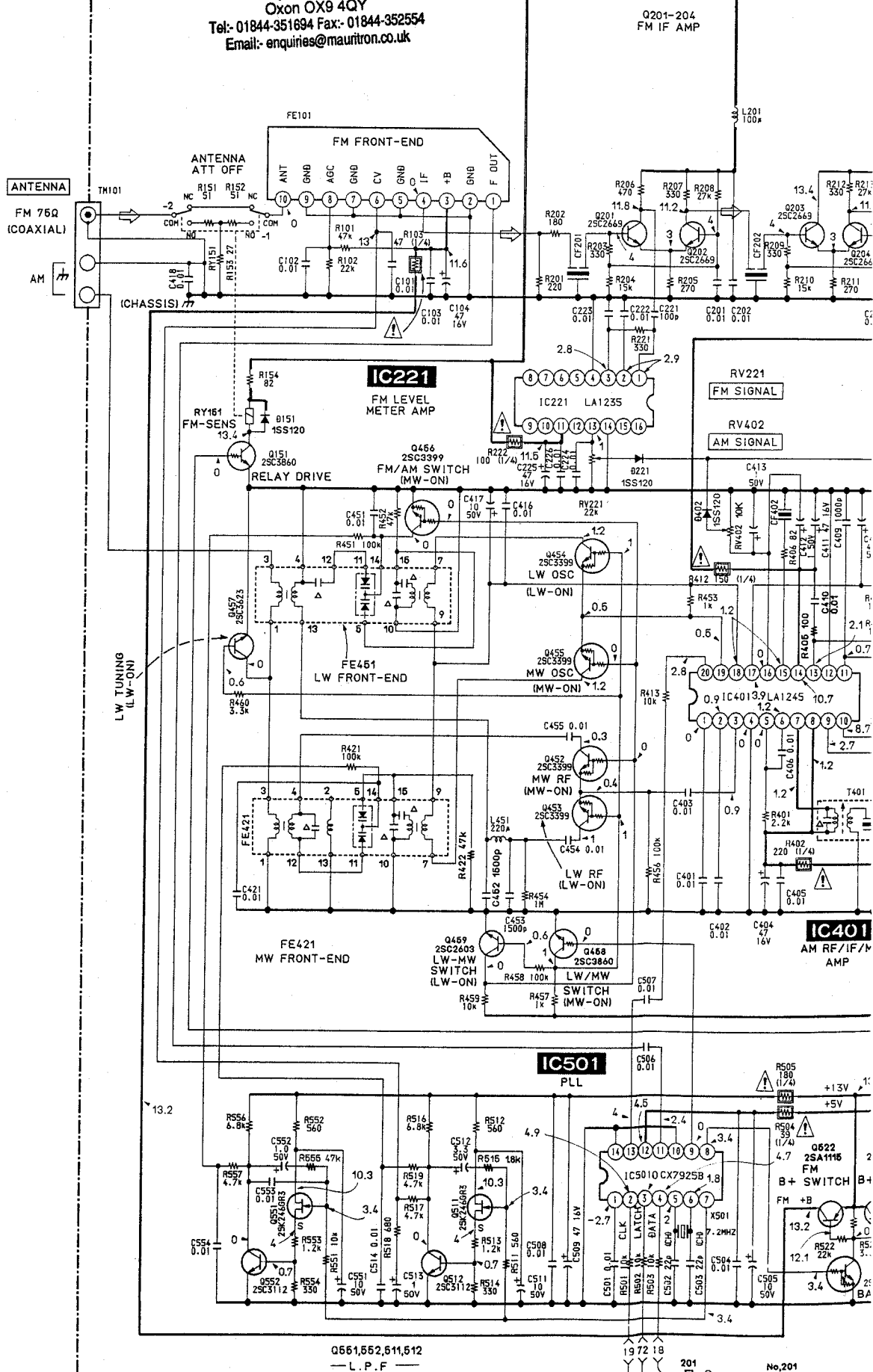
I

J

K

[TUNER BOARD]

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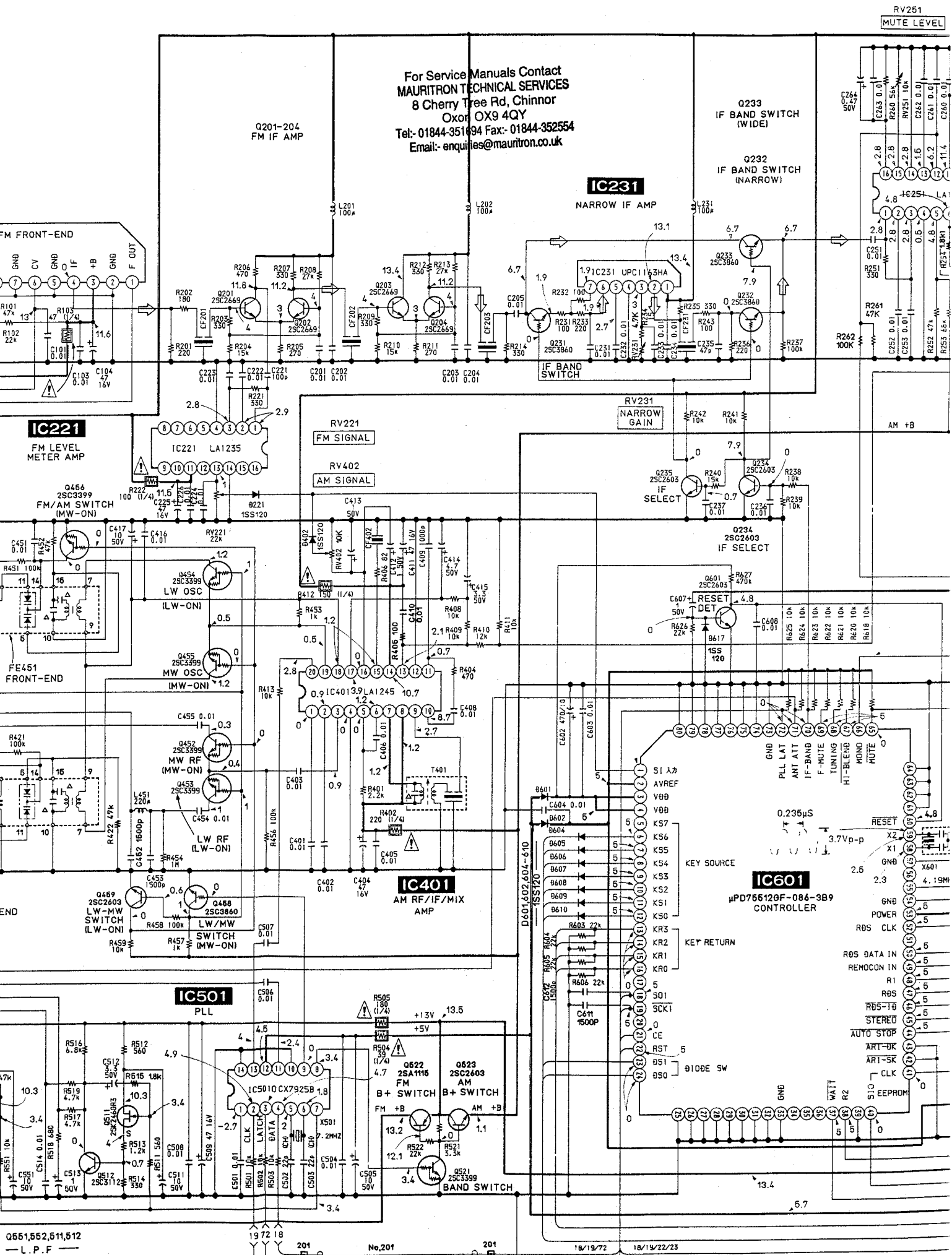


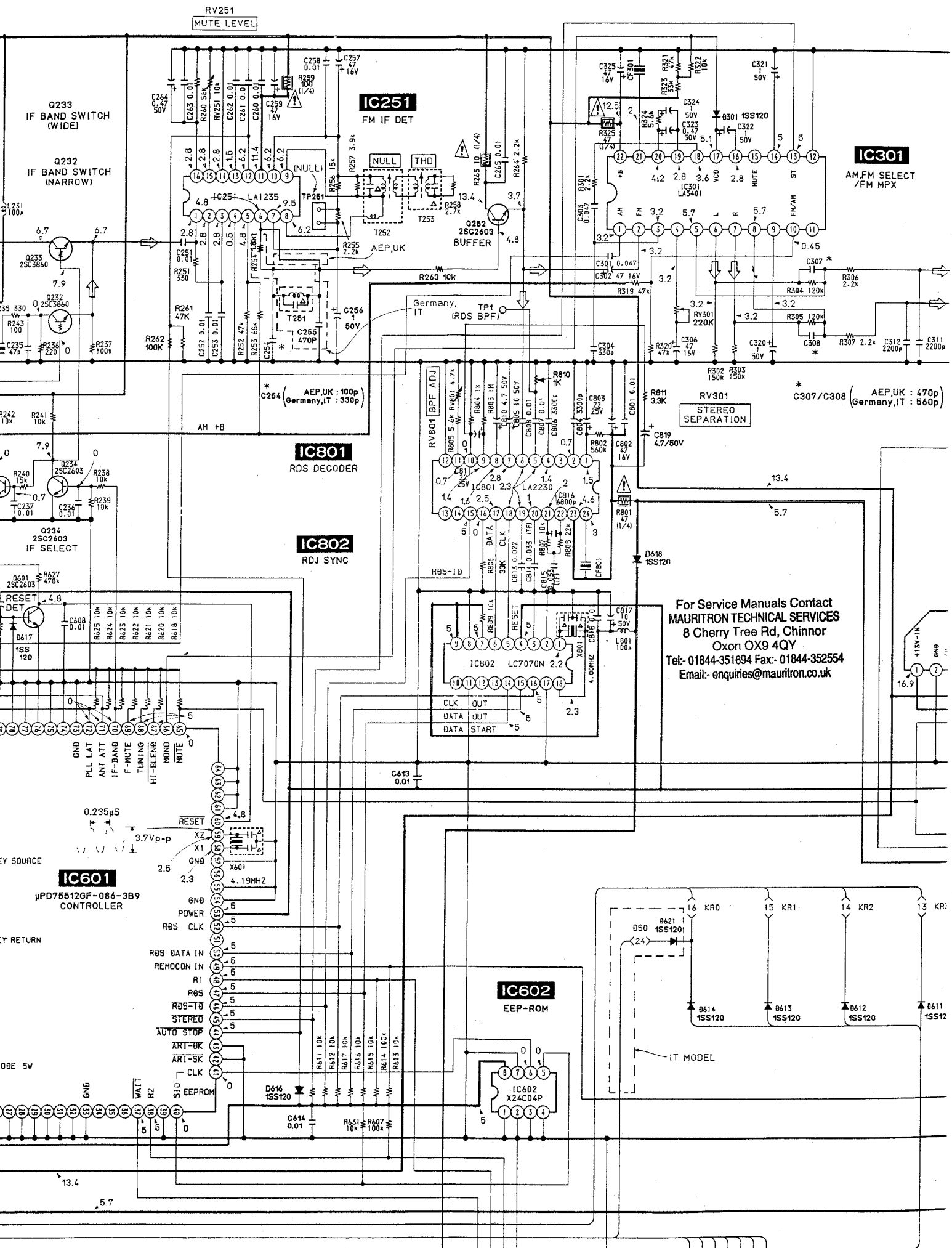
Q561,562,511,512

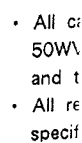
— L.P.F —

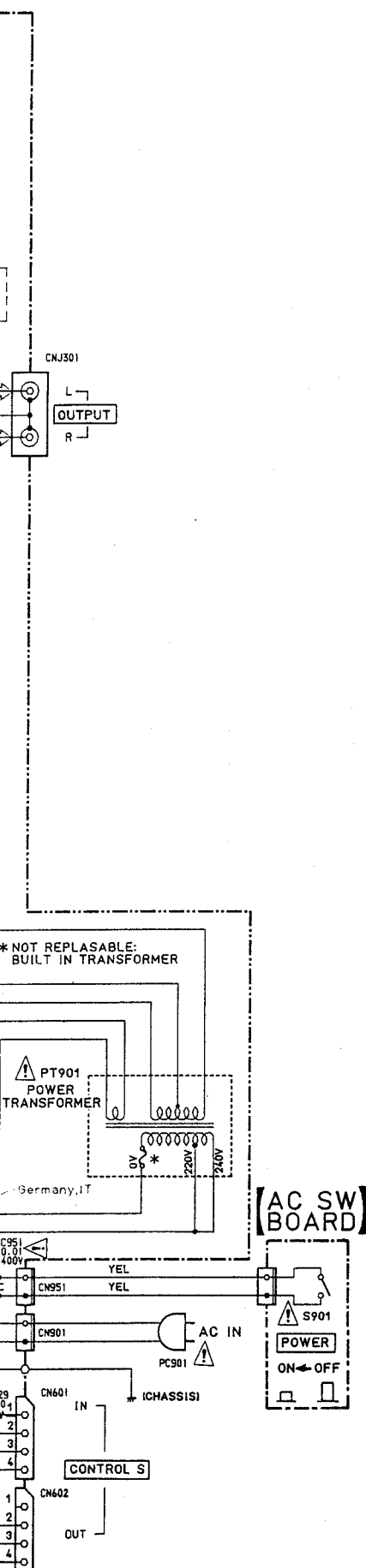
No.201

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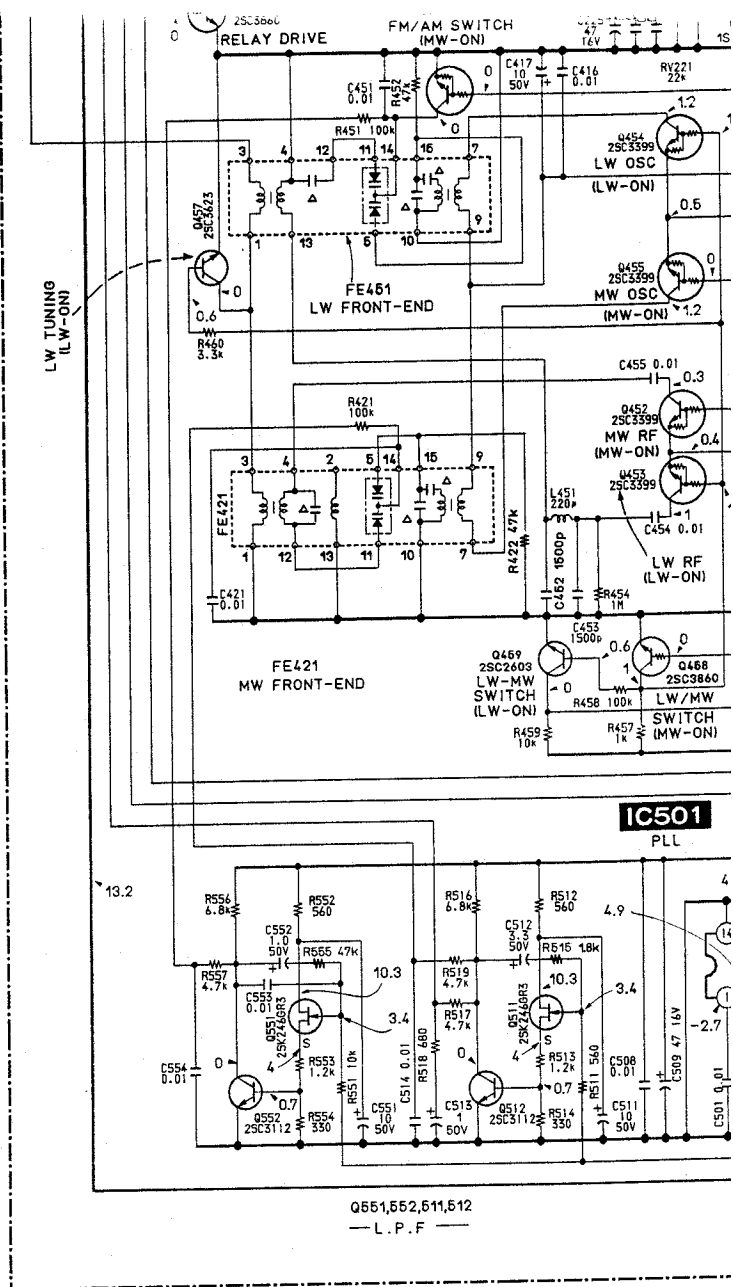


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Note :

- All capacitors are in μF unless otherwise noted. pF : $\mu \mu F$
 50WV or less are not indicated except for electrolytics
 and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise
 specified.
- Δ : internal component.

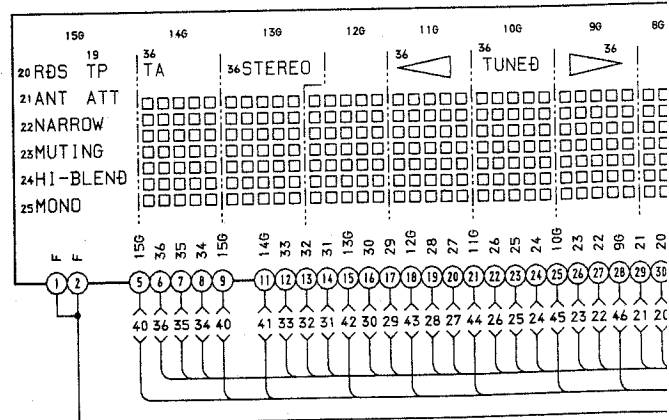
E
F
G
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K
L
M
N
O
P

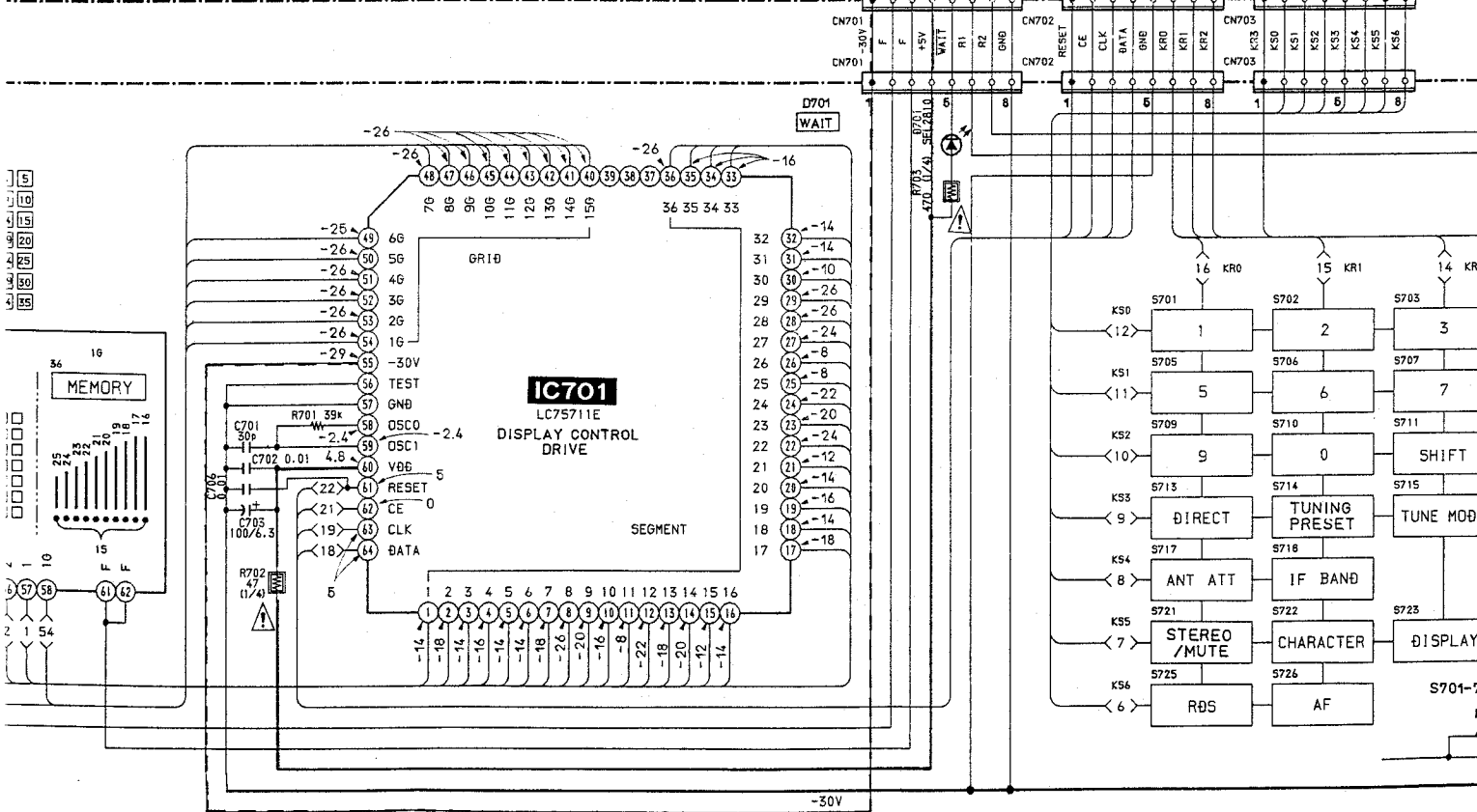
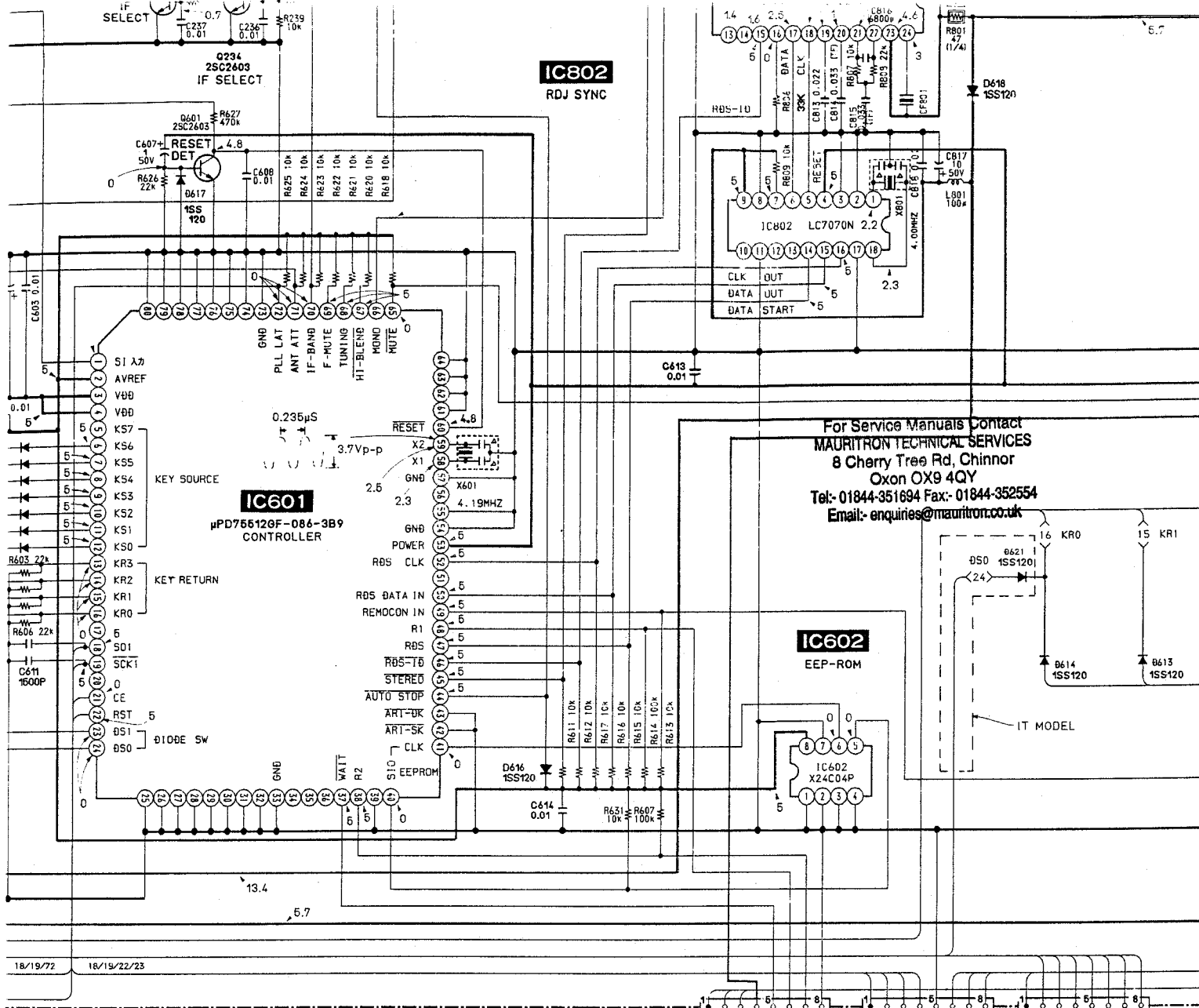


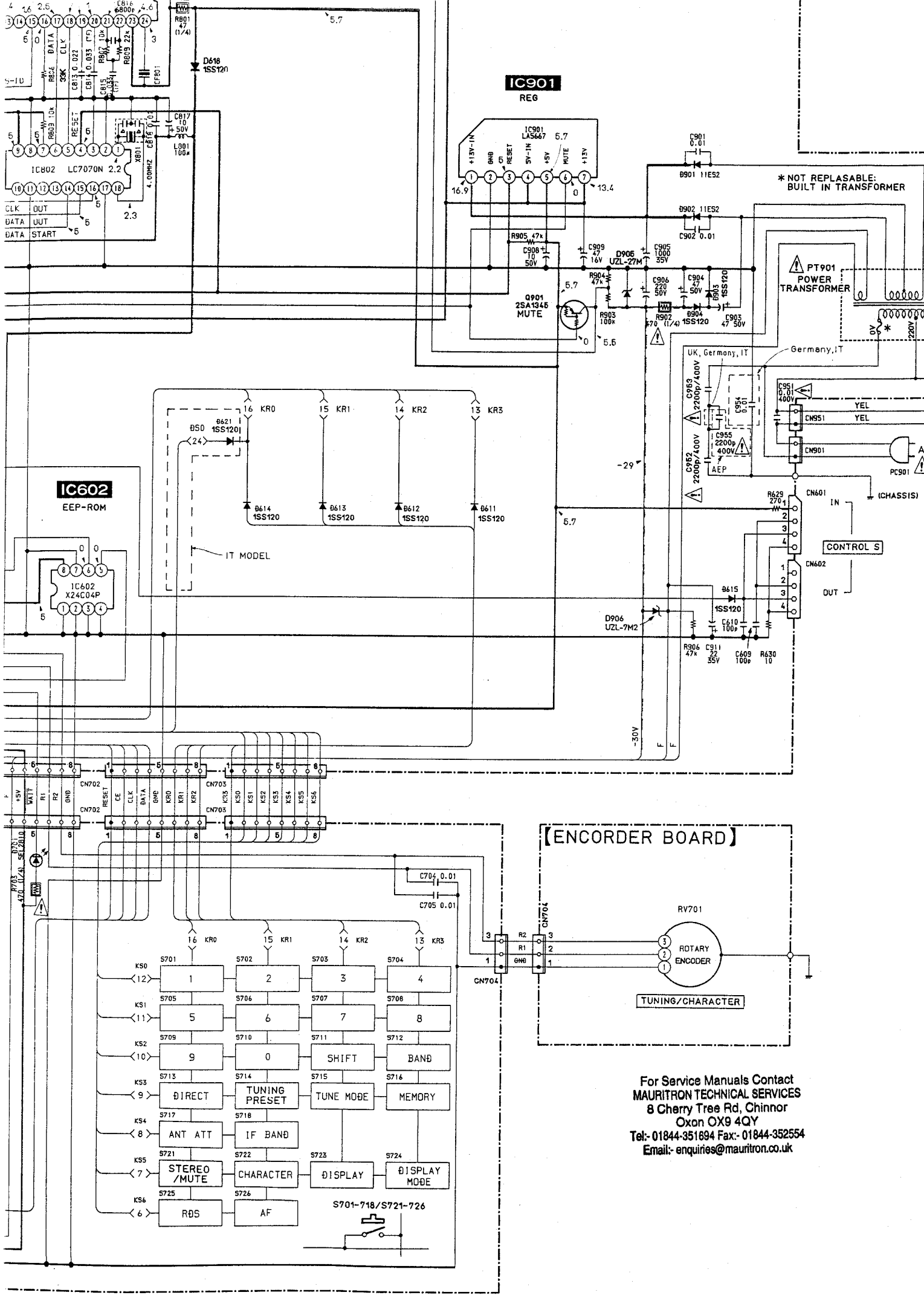
[DISPLAY BOARD]

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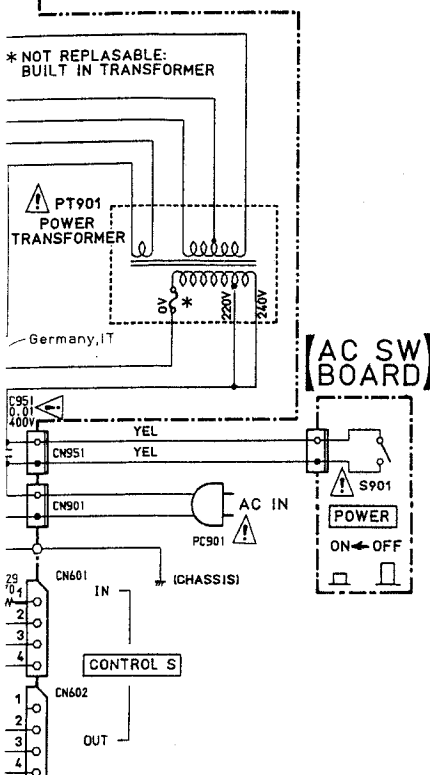
FL701 FLUORESCENT INDICATOR TUBE







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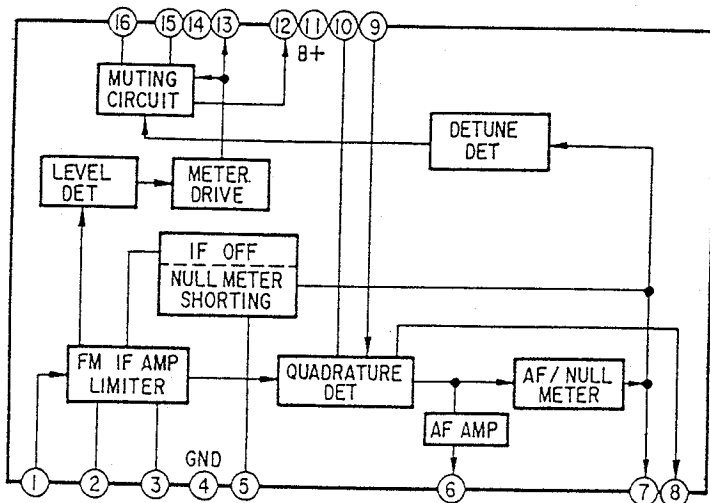
Note :

- All capacitors are in μF unless otherwise noted. pF : $\mu \mu F$
 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- $\triangle$: internal component.
- $\square$: nonflammable resistor.

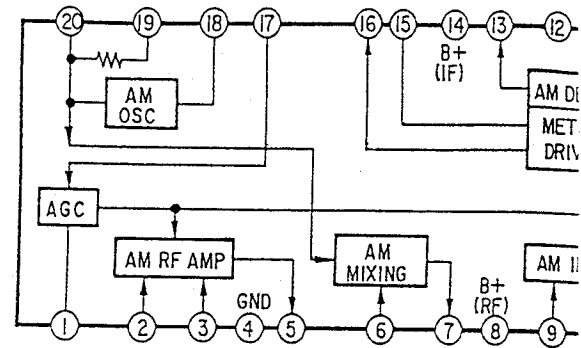
Note: The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

- --- : B+ Line
- --- : B- Line
- $\square$: adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
 no mark : FM MODE
- Voltages are taken with a VOM (Input impedance $10M\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Signal path.
 $\Rightarrow$: FM
- IT : Italian

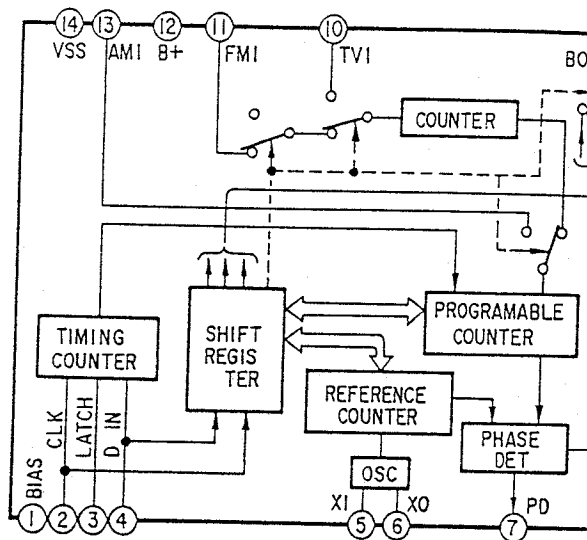
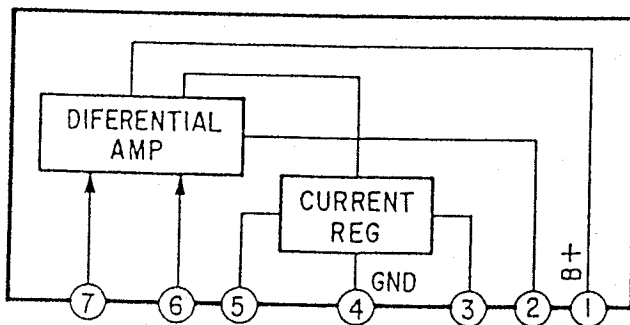
IC221, 251 LA1235



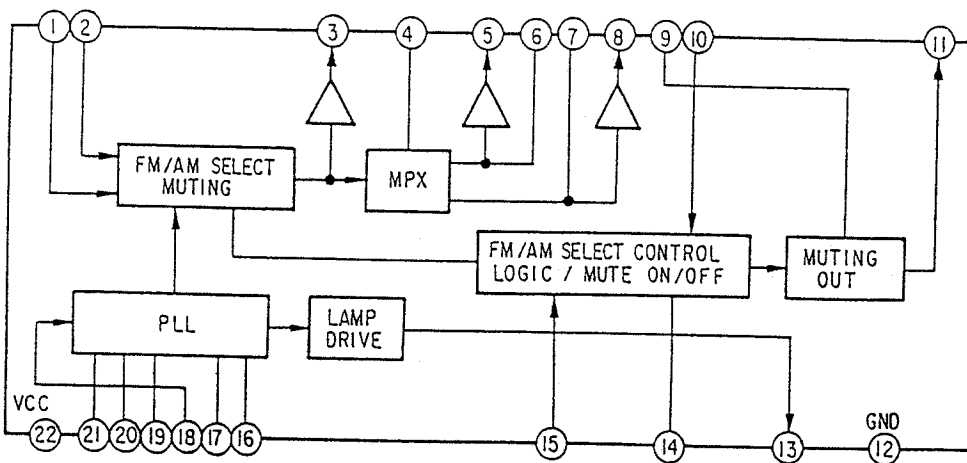
IC401 LA1245



IC501 CX7925B

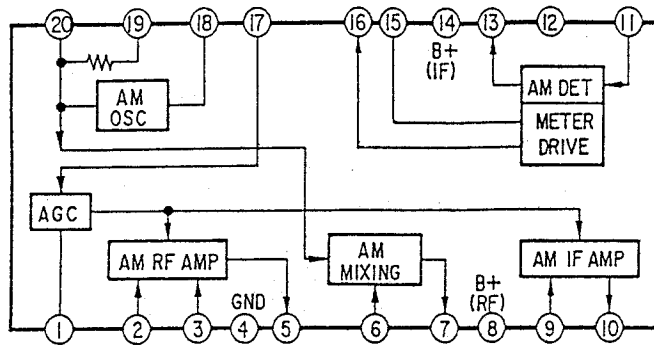
IC231 μ PC1163HA

IC301 LA3401

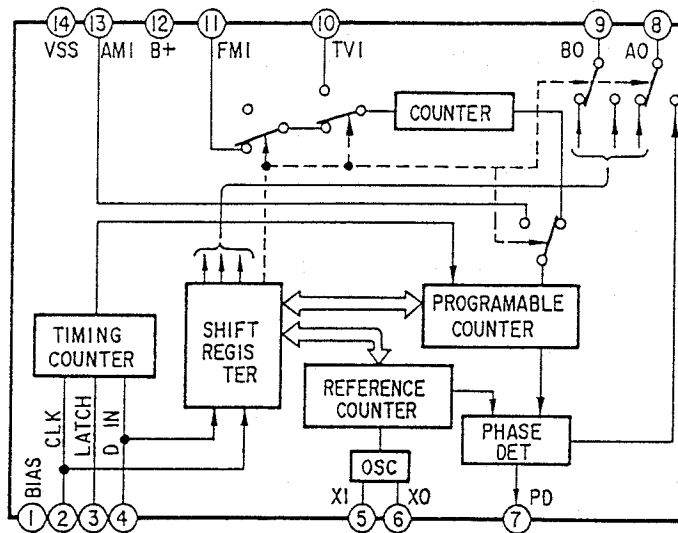


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 Tel: 01844-351694 Fax: 01844-352554
 Email: enquiries@mauritron.co.uk

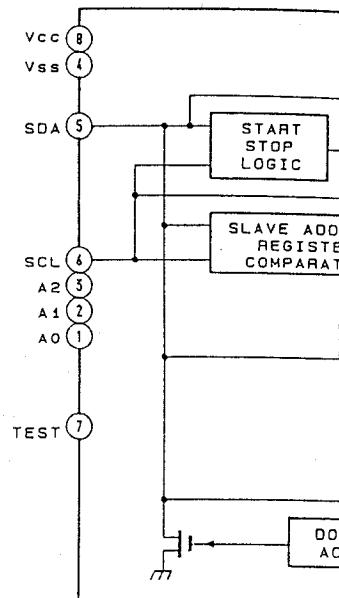
IC401 LA1245



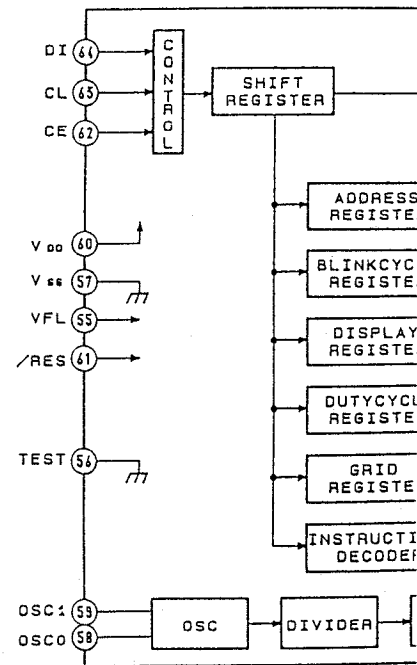
IC501 CX7925B



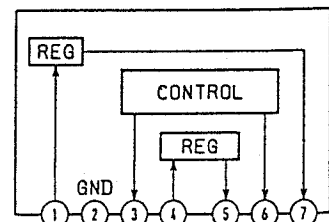
IC602 X2404P



IC701 LC7511E



IC901 LA5667



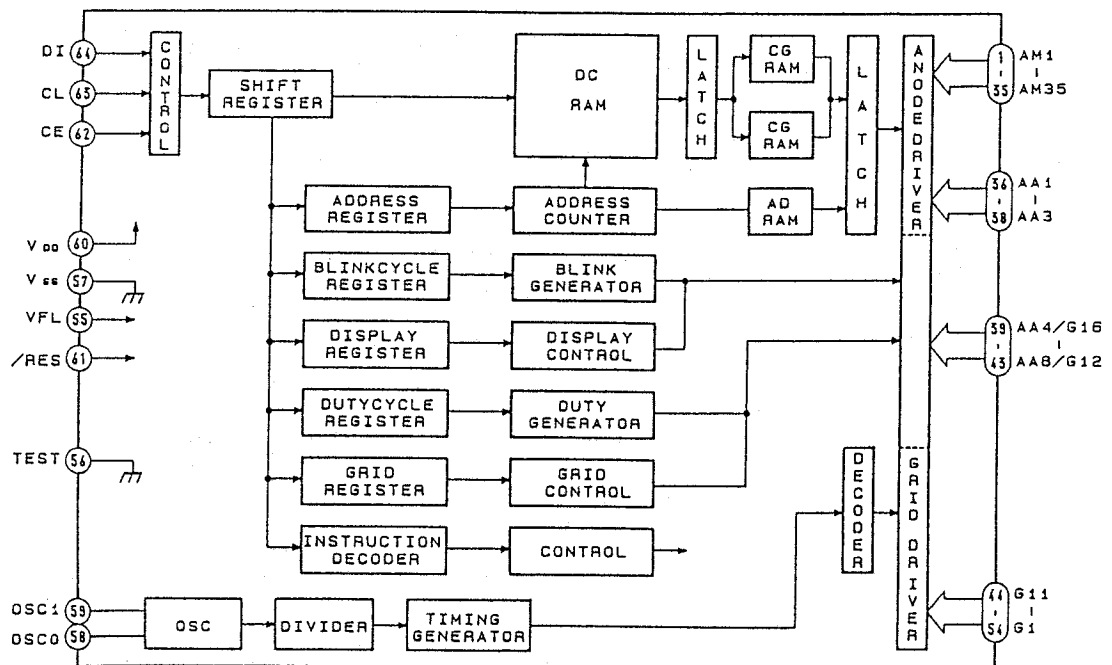
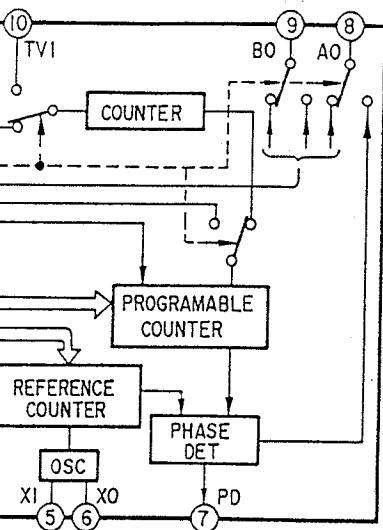
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel:- 01844-351694 Fax:- 01844-352554
 Email:- enquiries@mauritron.co.uk

The diagram illustrates the internal circuitry of a radio receiver. The signal path is as follows:

- Antenna** (connected to test point 16) feeds into the **AM MIXING** block.
- The output of the **AM MIXING** block goes to test point 7.
- Test point 7 is connected to the **AM IF AMP** block.
- The output of the **AM IF AMP** block goes to test point 10.
- Test point 10 is connected to the **AM DET** block.
- The output of the **AM DET** block goes to test point 13.
- Test point 13 is connected to the **METER DRIVE** block.
- The output of the **METER DRIVE** block goes to test point 15.
- Test point 15 is connected to the **Speaker** (test point 11).

 Additionally, there are two bias points:

- B+ (IF)** is connected to test points 14 and 13.
- B+ (RF)** is connected to test points 8 and 9.



SECTION 4 EXPLODED VIEWS

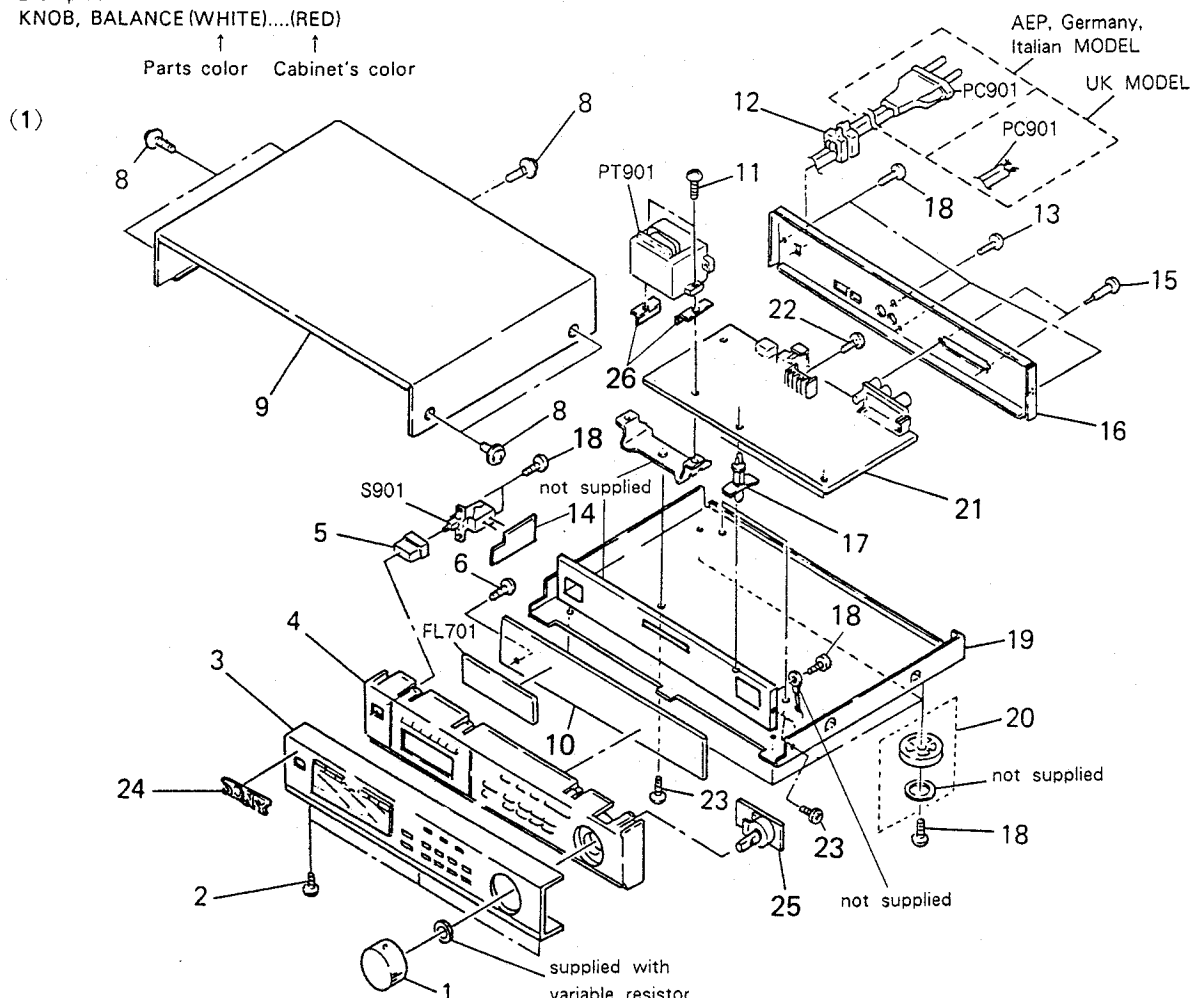
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts
Example:
KNOB, BALANCE (WHITE)....(RED)

↑ ↑
Parts color Cabinet's color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.



Ref. No.	Part No.	Description	Remark
1	4-944-125-01	KNOB (DIA. 44)	
2	7-682-547-04	SCREW +BV 3X6, S TIGHT (AEP, UK, Germany)	
3	4-945-288-01	PANEL, FRONT	
4	X-4941-623-1	PANEL (BASE) ASSY	
5	3-354-912-01	KNOB, POWER	
6	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
8	3-704-366-01	SCREW (CASE) (M3X8)	
9	4-923-457-01	CASE	
10	* A-4345-104-A	DISPLAY BOARD, COMPLETE	
11	7-682-550-04	SCREW +BVTT 3X12 (S)	
12	* 3-703-244-00	BUSHING (2104), CORD	
13	7-621-849-00	SCREW (BV/RING)	
14	* 1-640-342-11	AC SW BOARD	
15	3-704-242-01	SCREW, TERMINAL, + BVTP CLAW	
16	* 4-945-296-11	PANEL, BACK (AEP, Italian)	
16	* 4-945-296-21	PANEL, BACK (Germany)	
16	* 4-945-296-32	PANEL, BACK (UK)	

Ref. No.	Part No.	Description	Remark
17	* 3-346-265-11	HOLDER, PC BOARD	
18	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
19	* 4-929-296-51	CHASSIS	
20	X-3304-944-1	FOOT ASSY	
21	* A-4345-157-A	TUNER BOARD, COMPLETE (AEP)	
21	* A-4345-158-A	TUNER BOARD, COMPLETE (Germany)	
21	* A-4345-159-A	TUNER BOARD, COMPLETE (UK)	
21	* A-4345-160-A	TUNER BOARD, COMPLETE (Italian)	
22	7-682-548-04	SCREW +BVTT 3X8 (S)	
23	7-682-547-09	SCREW +BVTT 3X6 (S)	
24	4-908-848-01	EMBLEM, SONY	
25	* 1-640-344-11	ENCODER BOARD	
26	4-947-591-01	INSULATOR	
FL701	1-519-643-11	INDICATOR TUBE, FLUORESCENT	
PC901	1-575-651-11	CORD, POWER (AEP, Germany, Italian)	
PC901	1-575-652-11	CORD, POWER (UK)	
PT901	1-450-408-11	POWER TRANSFORMER	
S901	1-572-267-11	SWITCH, PUSH (AC POWER) (1 KEY)	

SECTION 5 ELECTRICAL PARTS LIST

AC SW

DISPLAY

ENCODER

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u: μ , for example:
uA.....: μ A....., uPA.....: μ PA.....
uPB.....: μ PB....., uPC.....: μ PC.....
uPD.....: μ PD.....
- CAPACITORS
uF: μ F
- COILS
uH: μ H

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description	Remark
	* 1-640-342-11	AC SW BOARD *****	
		< SWITCH >	
S901	Δ 1-572-267-51	SWITCH, PUSH (AC POWER) (1 KEY)	

	* A-4345-104-A	DISPLAY BOARD, COMPLETE *****	
	* 4-945-292-01	HOLDER, INDICATION TUBE < CAPACITOR >	
C701	1-162-210-31	CERAMIC 30PF 5% 50V	
C702	1-164-096-11	CERAMIC 0.01uF 50V	
C703	1-126-177-11	ELECT 100uF 20% 10V	
C704	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C705	1-164-096-11	CERAMIC 0.01uF 50V	
C706	1-161-379-00	CERAMIC 0.01uF 20% 25V	
		< DIODE >	
D701	8-719-301-52	DIODE SEL2810A-C (WAIT)	
		< FILTER >	
FL701	1-519-643-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC701	8-759-823-57	IC LC75711E	
		< RESISTOR >	
R701	1-249-436-11	CARBON 39K 5% 1/4W	
R702	Δ 1-249-401-11	CARBON 47 5% 1/4W	
R703	Δ 1-249-413-11	CARBON 470 5% 1/4W	

Ref.No.	Part No.	Description	Remark
		< SWITCH >	
S701	1-572-198-11	SWITCH, KEY BOARD (1)	
S702	1-572-198-11	SWITCH, KEY BOARD (2)	
S703	1-572-198-11	SWITCH, KEY BOARD (3)	
S704	1-572-198-11	SWITCH, KEY BOARD (4)	
S705	1-572-198-11	SWITCH, KEY BOARD (5)	
S706	1-572-198-11	SWITCH, KEY BOARD (6)	
S707	1-572-198-11	SWITCH, KEY BOARD (7)	
S708	1-572-198-11	SWITCH, KEY BOARD (8)	
S709	1-572-198-11	SWITCH, KEY BOARD (9)	
S710	1-572-198-11	SWITCH, KEY BOARD (0)	
S711	1-572-198-11	SWITCH, KEY BOARD (SHIFT)	
S712	1-572-198-11	SWITCH, KEY BOARD (BAND)	
S713	1-572-198-11	SWITCH, KEY BOARD (DILECT)	
S714	1-572-198-11	SWITCH, KEY BOARD (TUNING PRESET)	
S715	1-572-198-11	SWITCH, KEY BOARD (TUNING MODE)	
S716	1-572-198-11	SWITCH, KEY BOARD (MEMORY)	
S717	1-572-198-11	SWITCH, KEY BOARD (ANT ATT)	
S718	1-572-198-11	SWITCH, KEY BOARD (IF BAND)	
S721	1-572-198-11	SWITCH, KEY BOARD (STEREO/MUTE)	
S722	1-572-198-11	SWITCH, KEY BOARD (CHARECTOR)	
S723	1-572-198-11	SWITCH, KEY BOARD (DISPLAY)	
S724	1-572-198-11	SWITCH, KEY BOARD (DISPLAY MODE)	
S725	1-572-198-11	SWITCH, KEY BOARD (RDS)	
S726	1-572-198-11	SWITCH, KEY BOARD (AF)	

	* 1-640-344-11	ENCODER BOARD *****	
		< VARIABLE RESISTOR >	
RV701	1-466-513-11	ENCODER, ROTARY (TUNING/CHARACTER)	

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

TUNER

Ref. No.	Part No.	Description	Remark		
	* A-4345-157-A	TUNER BOARD, COMPLETE (AEP)			
	* A-4345-158-A	TUNER BOARD, COMPLETE (Germany)			
	* A-4345-159-A	TUNER BOARD, COMPLETE (UK)			
	* A-4345-160-A	TUNER BOARD, COMPLETE (Italian)			

	1-690-122-41	REED (WITH CONNECTOR) (2 CORE)			
	7-682-548-04	SCREW +BVTT 3X8 (S)			
	< CAPACITOR >				
C101	1-161-379-00	CERAMIC	0.01uF	20%	25V
C102	1-161-379-00	CERAMIC	0.01uF	20%	25V
C103	1-161-379-00	CERAMIC	0.01uF	20%	25V
C104	1-124-477-11	ELECT	47uF	20%	25V
C201	1-161-379-00	CERAMIC	0.01uF	20%	25V
C202	1-161-379-00	CERAMIC	0.01uF	20%	25V
C203	1-161-379-00	CERAMIC	0.01uF	20%	25V
C204	1-161-379-00	CERAMIC	0.01uF	20%	25V
C205	1-161-379-00	CERAMIC	0.01uF	20%	25V
C221	1-162-282-31	CERAMIC	100PF	10%	50V
C222	1-161-379-00	CERAMIC	0.01uF	20%	25V
C223	1-161-379-00	CERAMIC	0.01uF	20%	25V
C224	1-161-379-00	CERAMIC	0.01uF	20%	25V
C225	1-124-477-11	ELECT	47uF	20%	25V
C226	1-161-379-00	CERAMIC	0.01uF	20%	25V
C231	1-161-379-00	CERAMIC	0.01uF	20%	25V
C232	1-161-379-00	CERAMIC	0.01uF	20%	25V
C233	1-161-379-00	CERAMIC	0.01uF	20%	25V
C234	1-161-379-00	CERAMIC	0.01uF	20%	25V
C235	1-162-215-31	CERAMIC	47PF	5%	50V
C236	1-161-379-00	CERAMIC	0.01uF	20%	25V
C237	1-161-379-00	CERAMIC	0.01uF	20%	25V
C251	1-161-379-00	CERAMIC	0.01uF	20%	25V
C252	1-161-379-00	CERAMIC	0.01uF	20%	25V
C253	1-161-379-00	CERAMIC	0.01uF	20%	25V
C254	1-162-282-31	CERAMIC	100PF	10%	50V (AEP, UK)
C254	1-162-288-31	CERAMIC	330PF	10%	50V (Germany, Italian)
C255	1-162-290-31	CERAMIC	470PF	10%	50V (Germany, Italian)
C256	1-124-903-11	ELECT	1uF	20%	50V
C257	1-124-477-11	ELECT	47uF	20%	25V
C258	1-161-379-00	CERAMIC	0.01uF	20%	25V
C259	1-124-477-11	ELECT	47uF	20%	25V
C260	1-161-379-00	CERAMIC	0.01uF	20%	25V
C261	1-161-379-00	CERAMIC	0.01uF	20%	25V
C262	1-161-379-00	CERAMIC	0.01uF	20%	25V
C263	1-161-379-00	CERAMIC	0.01uF	20%	25V
C264	1-124-902-00	ELECT	0.47uF	20%	50V

Ref. No.	Part No.	Description	Remark		
C265	1-161-379-00	CERAMIC	0.01uF	20%	25V
C301	1-164-098-11	CERAMIC	0.047uF		12V
C302	1-124-477-11	ELECT	47uF	20%	25V
C303	1-164-098-11	CERAMIC	0.047uF		12V
C304	1-162-288-31	CERAMIC	330PF	10%	50V
C306	1-124-477-11	ELECT	47uF	20%	25V
C307	1-130-467-00	MYLAR	470PF	5%	50V (AEP, UK)
C307	1-130-468-00	MYLAR	560PF	5%	50V
(Germany, Italian)					
C308	1-130-467-00	MYLAR	470PF	5%	50V (AEP, UK)
C308	1-130-468-00	MYLAR	560PF	5%	50V
(Germany, Italian)					
C311	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C312	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C317	1-123-382-00	ELECT	3.3uF	20%	100V
C318	1-123-382-00	ELECT	3.3uF	20%	100V
C320	1-124-903-11	ELECT	1uF	20%	50V
C321	1-124-903-11	ELECT	1uF	20%	50V
C322	1-124-903-11	ELECT	1uF	20%	50V
C323	1-124-902-00	ELECT	0.47uF	20%	50V
C324	1-124-903-11	ELECT	1uF	20%	50V
C325	1-124-477-11	ELECT	47uF	20%	25V
C352	1-162-294-31	CERAMIC	0.001uF	10%	50V
(Germany, Italian)					
C353	1-162-294-31	CERAMIC	0.001uF	10%	50V
(Germany, Italian)					
C401	1-161-379-00	CERAMIC	0.01uF	20%	25V
C402	1-161-379-00	CERAMIC	0.01uF	20%	25V
C403	1-161-379-00	CERAMIC	0.01uF	20%	25V
C404	1-124-477-11	ELECT	47uF	20%	25V
C405	1-161-379-00	CERAMIC	0.01uF	20%	25V
C406	1-161-379-00	CERAMIC	0.01uF	20%	25V
C408	1-161-379-00	CERAMIC	0.01uF	20%	25V
C409	1-162-294-31	CERAMIC	0.001uF	10%	50V
C410	1-161-379-00	CERAMIC	0.01uF	20%	25V
C411	1-124-477-11	ELECT	47uF	20%	25V
C412	1-124-903-11	ELECT	1uF	20%	50V
C413	1-124-903-11	ELECT	1uF	20%	50V
C414	1-124-927-11	ELECT	4.7uF	20%	100V
C415	1-123-382-00	ELECT	3.3uF	20%	100V
C416	1-161-379-00	CERAMIC	0.01uF	20%	25V
C417	1-124-907-11	ELECT	10uF	20%	50V
C418	1-161-379-00	CERAMIC	0.01uF	20%	25V
C421	1-161-379-00	CERAMIC	0.01uF	20%	25V
C451	1-161-379-00	CERAMIC	0.01uF	20%	25V
C452	1-161-374-11	CERAMIC	0.0015uF	20%	50V

TUNER

Ref. No.	Part No.	Description	Remark
C453	1-161-374-11	CERAMIC	0.0015uF 20% 50V
C454	1-161-379-00	CERAMIC	0.01uF 20% 25V
C455	1-161-379-00	CERAMIC	0.01uF 20% 25V
C501	1-161-379-00	CERAMIC	0.01uF 20% 25V
C502	1-102-959-00	CERAMIC	22PF 5% 50V
C503	1-102-959-00	CERAMIC	22PF 5% 50V
C504	1-161-379-00	CERAMIC	0.01uF 20% 25V
C505	1-124-907-11	ELECT	10uF 20% 50V
C506	1-161-379-00	CERAMIC	0.01uF 20% 25V
C507	1-161-379-00	CERAMIC	0.01uF 20% 25V
C508	1-161-379-00	CERAMIC	0.01uF 20% 25V
C509	1-124-477-11	ELECT	47uF 20% 25V
C511	1-124-907-11	ELECT	10uF 20% 50V
C512	1-123-382-00	ELECT	3.3uF 20% 100V
C513	1-124-903-11	ELECT	1uF 20% 50V
C514	1-161-379-00	CERAMIC	0.01uF 20% 25V
C551	1-124-907-11	ELECT	10uF 20% 50V
C552	1-124-903-11	ELECT	1uF 20% 50V
C553	1-161-379-00	CERAMIC	0.01uF 20% 25V
C554	1-161-379-00	CERAMIC	0.01uF 20% 25V
C602	1-124-472-11	ELECT	470uF 20% 10V
C603	1-161-379-00	CERAMIC	0.01uF 20% 25V
C604	1-161-379-00	CERAMIC	0.01uF 20% 25V
C607	1-124-903-11	ELECT	1uF 20% 50V
C608	1-161-379-00	CERAMIC	0.01uF 20% 25V
C609	1-162-282-31	CERAMIC	100PF 10% 50V
C610	1-162-282-31	CERAMIC	100PF 10% 50V
C611	1-161-374-11	CERAMIC	0.0015uF 20% 50V
C612	1-161-374-11	CERAMIC	0.0015uF 20% 50V
C613	1-161-379-00	CERAMIC	0.01uF 20% 25V
C614	1-161-379-00	CERAMIC	0.01uF 20% 25V
C801	1-161-379-00	CERAMIC	0.01uF 20% 25V
C802	1-124-477-11	ELECT	47uF 20% 25V
C803	1-126-233-11	ELECT	22uF 20% 50V
C804	1-161-327-00	CERAMIC	0.0033uF 30% 16V
C806	1-161-327-00	CERAMIC	0.0033uF 30% 16V
C807	1-161-379-00	CERAMIC	0.01uF 20% 25V
C808	1-161-379-00	CERAMIC	0.01uF 20% 25V
C809	1-124-907-11	ELECT	10uF 20% 50V
C810	1-124-927-11	ELECT	4.7uF 20% 100V
C811	1-124-907-11	ELECT	10uF 20% 50V
C813	1-164-097-11	CERAMIC	0.022uF 50V
C814	1-136-159-00	FILM	0.033uF 5% 50V
C815	1-136-159-00	FILM	0.033uF 5% 50V
C816	1-161-329-00	CERAMIC	0.0068uF 30% 16V
C817	1-124-907-11	ELECT	10uF 20% 50V
C818	1-161-379-00	CERAMIC	0.01uF 20% 25V
C819	1-124-927-11	ELECT	4.7uF 20% 100V
C901	1-101-004-00	CERAMIC	0.01uF 50V

Ref. No.	Part No.	Description	Remark
C902	1-101-004-00	CERAMIC	0.01uF 50V
C903	1-124-910-11	ELECT	47uF 20% 50V
C904	1-124-910-11	ELECT	47uF 20% 50V
C905	1-126-105-11	ELECT	1000uF 20% 35V
C906	1-124-911-11	ELECT	220uF 20% 50V
C908	1-124-907-11	ELECT	10uF 20% 50V
C909	1-124-477-11	ELECT	47uF 20% 25V
C911	1-126-233-11	ELECT	22uF 20% 50V
C951	△ 1-161-744-00	CERAMIC	0.01uF 400V
C952	△ 1-161-742-00	CERAMIC	0.0022uF 20% 400V
C953	△ 1-161-742-00	CERAMIC	0.0022uF 20% 400V
C954	1-101-004-00	CERAMIC	0.01uF 50V
C955	△ 1-161-742-00	CERAMIC	0.0022uF 20% 400V

(Germany, Italian)
(AEP)

< FILTER >

CF201	1-567-389-11	FILTER, CERAMIC
CF202	1-567-389-11	FILTER, CERAMIC
CF203	1-567-389-11	FILTER, CERAMIC
CF231	1-567-107-71	FILTER, CERAMIC
CF301	1-567-250-11	OSCILLATOR, CERAMIC
CF402	1-527-981-00	FILTER, CERAMIC
CF801	1-577-075-11	OSCILLATOR, CERAMIC

< CONNECTOR >

CN601	1-564-980-11	PIN, CONNECTOR 4P (CONTROL-S IN)
CN602	1-564-980-11	PIN, CONNECTOR 4P (CONTROL-S OUT)
CN701	* 1-564-342-11	PIN, CONNECTOR 8P
CN702	* 1-564-342-61	PIN, CONNECTOR 8P
CN703	* 1-564-342-11	PIN, CONNECTOR 8P
CN901	* 1-564-321-00	PIN, CONNECTOR 2P
CN951	1-564-321-00	PIN, CONNECTOR 2P
CNJ301	1-568-250-11	JACK, PIN 2P (PUTPUT)

< DIODE >

D151	8-719-912-20	DIODE 1SS120
D221	8-719-912-20	DIODE 1SS120
D301	8-719-912-20	DIODE 1SS120
D402	8-719-912-20	DIODE 1SS120
D601	8-719-912-20	DIODE 1SS120
D602	8-719-912-20	DIODE 1SS120
D604	8-719-912-20	DIODE 1SS120
D605	8-719-912-20	DIODE 1SS120
D606	8-719-912-20	DIODE 1SS120
D607	8-719-912-20	DIODE 1SS120
D608	8-719-912-20	DIODE 1SS120
D609	8-719-912-20	DIODE 1SS120
D610	8-719-912-20	DIODE 1SS120
D611	8-719-912-20	DIODE 1SS120

Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

TUNER

Ref. No.	Part No.	Description	Remark
D612	8-719-912-20	DIODE 1SS120	
D613	8-719-912-20	DIODE 1SS120	
D614	8-719-912-20	DIODE 1SS120	
D615	8-719-912-20	DIODE 1SS120	
D616	8-719-912-20	DIODE 1SS120	
D617	8-719-912-20	DIODE 1SS120	
D618	8-719-912-20	DIODE 1SS120	
D621	8-719-912-20	DIODE 1SS120 (Italian)	
D901	8-719-200-82	DIODE 11ES2	
D902	8-719-200-82	DIODE 11ES2	
D903	8-719-912-20	DIODE 1SS120	
D904	8-719-912-20	DIODE 1SS120	
D905	8-719-934-18	DIODE HZS27-2L	
D906	8-719-933-47	DIODE HZS7B2L	
< FRONT END >			
FE101	1-463-857-11	FRONT END (FM) (Germany, Italian)	
FE101	1-465-219-11	FRONT END (AEP, UK)	
< ENCAPSULATED COMPONENT >			
FE421	1-236-462-11	ENCAPSULATED COMPONENT (MW)	
FE451	1-236-463-11	ENCAPSULATED COMPONENT (LW)	
< IC >			
IC221	8-759-812-35	IC LA1235	
IC231	8-759-111-72	IC uPC1163HA	
IC251	8-759-812-35	IC LA1235	
IC301	8-759-801-80	IC LA3401	
IC401	8-759-812-45	IC LA1245	
IC501	8-757-925-20	IC CX-7925B	
IC601	8-759-153-09	IC uPD75512GF-086-389	
IC602	8-759-720-89	IC X24C04P	
IC801	8-759-823-61	IC LA2230	
IC802	8-759-823-62	IC LC7070N	
IC901	8-759-820-09	IC LA5667	
< COIL >			
L201	1-408-421-00	INDUCTOR 100uH	
L202	1-408-421-00	INDUCTOR 100uH	
L231	1-408-421-00	INDUCTOR 100uH	
L351	1-410-470-11	INDUCTOR 10uH (Germany, Italian)	
L352	1-410-470-11	INDUCTOR 10uH (Germany, Italian)	
L451	1-408-425-00	INDUCTOR 220uH	
L801	1-408-421-00	INDUCTOR 100uH	
< FILTER >			
LPF301	1-235-164-00	FILTER, LOW PASS	
LPF302	1-235-164-00	FILTER, LOW PASS	

Ref. No.	Part No.	Description	Remark
< TRANSFORMER >			
PT901	1-450-408-11	TRANSFORMER, POWER	
< TRANSISTOR >			
Q151	8-729-904-39	TRANSISTOR DTC114TS	
Q201	8-729-230-XX	TRANSISTOR 2SC2669-OY	
Q202	8-729-230-XX	TRANSISTOR 2SC2669-OY	
Q203	8-729-230-XX	TRANSISTOR 2SC2669-OY	
Q204	8-729-230-XX	TRANSISTOR 2SC2669-OY	
Q231	8-729-904-39	TRANSISTOR 2SC3860-TP	
Q232	8-729-904-39	TRANSISTOR DTC114TS	
Q233	8-729-904-39	TRANSISTOR DTC114TS	
Q234	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q235	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q252	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q301	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q302	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q452	8-729-900-89	TRANSISTOR DTC144ES	
Q453	8-729-900-89	TRANSISTOR DTC144ES	
Q454	8-729-900-89	TRANSISTOR DTC144ES	
Q455	8-729-900-89	TRANSISTOR DTC144ES	
Q456	8-729-900-89	TRANSISTOR DTC144ES	
Q457	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q458	8-729-904-39	TRANSISTOR 2SC3860	
Q459	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q511	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q512	8-729-201-84	TRANSISTOR 2SC3112-B	
Q521	8-729-900-89	TRANSISTOR DTC144ES	
Q522	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q523	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q551	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q552	8-729-201-84	TRANSISTOR 2SC3112-B	
Q601	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q901	8-729-900-65	TRANSISTOR DTA144ES	
< RESISTOR >			
R101	1-249-437-11	CARBON 47K 5% 1/4W	
R102	1-249-433-11	CARBON 22K 5% 1/4W	
R103	1-249-401-11	CARBON 47 5% 1/4W	
R151	1-247-800-11	CARBON 51 5% 1/4W	
R152	1-247-800-11	CARBON 51 5% 1/4W	
R153	1-249-398-11	CARBON 27 5% 1/4W	
R154	1-249-404-00	CARBON 82 5% 1/4W	
R201	1-249-409-11	CARBON 220 5% 1/4W	
R202	1-249-408-11	CARBON 180 5% 1/4W	
R203	1-249-411-11	CARBON 330 5% 1/4W	
R204	1-249-431-11	CARBON 15K 5% 1/4W	

For Service Manuals Contact
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Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

TUNER

Ref. No.	Part No.	Description	Remark		
R205	1-249-410-11	CARBON	270	5%	1/4W
R206	1-249-413-11	CARBON	470	5%	1/4W
R207	1-249-411-11	CARBON	330	5%	1/4W
R208	1-249-434-11	CARBON	27K	5%	1/4W
R209	1-249-411-11	CARBON	330	5%	1/4W
R210	1-249-431-11	CARBON	15K	5%	1/4W
R211	1-249-410-11	CARBON	270	5%	1/4W
R212	1-249-411-11	CARBON	330	5%	1/4W
R213	1-249-434-11	CARBON	27K	5%	1/4W
R214	1-249-411-11	CARBON	330	5%	1/4W
R221	△ 1-249-411-11	CARBON	330	5%	1/4W
R222	1-249-405-11	CARBON	100	5%	1/4W
R231	1-249-405-11	CARBON	100	5%	1/4W
R232	1-249-405-11	CARBON	100	5%	1/4W
R233	1-249-409-11	CARBON	220	5%	1/4W
R234	1-249-395-11	CARBON	15	5%	1/4W
R235	1-249-411-11	CARBON	330	5%	1/4W
R236	1-249-409-11	CARBON	220	5%	1/4W
R237	1-249-441-11	CARBON	100K	5%	1/4W
R238	1-249-429-11	CARBON	10K	5%	1/4W
R239	1-249-429-11	CARBON	10K	5%	1/4W
R240	1-249-431-11	CARBON	15K	5%	1/4W
R241	1-249-429-11	CARBON	10K	5%	1/4W
R242	1-249-429-11	CARBON	10K	5%	1/4W
R243	1-249-405-11	CARBON	100	5%	1/4W
R251	1-249-411-11	CARBON	330	5%	1/4W
R252	1-249-437-11	CARBON	47K	5%	1/4W
R253	1-249-439-11	CARBON	68K	5%	1/4W
R254	1-249-420-11	CARBON	1.8K	5%	1/4W
		(Germany, Italian)			
R255	1-249-421-11	CARBON	2.2K	5%	1/4W
R256	1-249-431-11	CARBON	15K	5%	1/4W
R257	1-249-424-11	CARBON	3.9K	5%	1/4W
R258	1-249-422-11	CARBON	2.7K	5%	1/4W
R259	1-249-405-11	CARBON	100	5%	1/4W
R260	1-249-438-11	CARBON	56K	5%	1/4W
R261	1-249-437-11	CARBON	47K	5%	1/4W
R262	1-249-441-11	CARBON	100K	5%	1/4W
R263	1-249-429-11	CARBON	10K	5%	1/4W
R264	1-249-421-11	CARBON	2.2K	5%	1/4W
R265	△ 1-249-393-11	CARBON	10	5%	1/4W
R301	1-249-421-11	CARBON	2.2K	5%	1/4W
R302	1-247-883-00	CARBON	150K	5%	1/4W
R303	1-247-883-00	CARBON	150K	5%	1/4W
R304	1-247-881-00	CARBON	120K	5%	1/4W
R305	1-247-881-00	CARBON	120K	5%	1/4W
R306	1-249-421-11	CARBON	2.2K	5%	1/4W
R307	1-249-421-11	CARBON	2.2K	5%	1/4W
R308	1-249-426-11	CARBON	5.6K	5%	1/4W

Ref. No.	Part No.	Description	Remark		
R309	1-249-426-11	CARBON	5.6K	5%	1/4W
R317	1-249-414-11	CARBON	560	5%	1/4W
R318	1-249-414-11	CARBON	560	5%	1/4W
R319	1-249-437-11	CARBON	47K	5%	1/4W
R320	1-249-437-11	CARBON	47K	5%	1/4W
R321	1-249-437-11	CARBON	47K	5%	1/4W
R322	1-249-429-11	CARBON	10K	5%	1/4W
R323	1-249-435-11	CARBON	33K	5%	1/4W
R324	1-249-426-11	CARBON	5.6K	5%	1/4W
R325	△ 1-249-401-11	CARBON	47	5%	1/4W
R401	1-249-421-11	CARBON	2.2K	5%	1/4W
R402	△ 1-249-409-11	CARBON	220	5%	1/4W
R404	1-249-413-11	CARBON	470	5%	1/4W
R405	1-249-405-11	CARBON	100	5%	1/4W
R406	1-249-404-00	CARBON	82	5%	1/4W
R408	1-249-429-11	CARBON	10K	5%	1/4W
R409	1-249-429-11	CARBON	10K	5%	1/4W
R410	1-249-430-11	CARBON	12K	5%	1/4W
R411	1-249-429-11	CARBON	10K	5%	1/4W
R412	△ 1-249-407-11	CARBON	150	5%	1/4W
R413	1-249-429-11	CARBON	10K	5%	1/4W
R421	1-249-441-11	CARBON	100K	5%	1/4W
R422	1-249-437-11	CARBON	47K	5%	1/4W
R451	1-249-441-11	CARBON	100K	5%	1/4W
R452	1-249-437-11	CARBON	47K	5%	1/4W
R453	1-249-417-11	CARBON	1K	5%	1/4W
R454	1-247-903-00	CARBON	1M	5%	1/4W
R456	1-249-441-11	CARBON	100K	5%	1/4W
R457	1-249-417-11	CARBON	1K	5%	1/4W
R458	1-249-441-11	CARBON	100K	5%	1/4W
R459	1-249-429-11	CARBON	10K	5%	1/4W
R460	1-249-423-11	CARBON	3.3K	5%	1/4W
R501	1-249-429-11	CARBON	10K	5%	1/4W
R502	1-249-429-11	CARBON	10K	5%	1/4W
R503	1-249-429-11	CARBON	10K	5%	1/4W
R504	△ 1-249-400-11	CARBON	39	5%	1/4W
R505	△ 1-249-408-11	CARBON	180	5%	1/4W
R511	1-249-414-11	CARBON	560	5%	1/4W
R512	1-249-414-11	CARBON	560	5%	1/4W
R513	1-249-418-11	CARBON	1.2K	5%	1/4W
R514	1-249-411-11	CARBON	330	5%	1/4W
R515	1-249-420-11	CARBON	1.8K	5%	1/4W
R516	1-249-427-11	CARBON	6.8K	5%	1/4W
R517	1-249-425-11	CARBON	4.7K	5%	1/4W
R518	1-249-415-11	CARBON	680	5%	1/4W
R519	1-249-425-11	CARBON	4.7K	5%	1/4W
R521	1-249-423-11	CARBON	3.3K	5%	1/4W
R522	1-249-433-11	CARBON	22K	5%	1/4W
R551	1-249-429-11	CARBON	10K	5%	1/4W

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TUNER

Ref. No.	Part No.	Description	Remark
R552	1-249-414-11	CARBON	560 5% 1/4W
R553	1-249-418-11	CARBON	1.2K 5% 1/4W
R554	1-249-411-11	CARBON	330 5% 1/4W
R555	1-249-437-11	CARBON	47K 5% 1/4W
R556	1-249-427-11	CARBON	6.8K 5% 1/4W
R557	1-249-425-11	CARBON	4.7K 5% 1/4W
R603	1-249-433-11	CARBON	22K 5% 1/4W
R604	1-249-433-11	CARBON	22K 5% 1/4W
R605	1-249-433-11	CARBON	22K 5% 1/4W
R606	1-249-433-11	CARBON	22K 5% 1/4W
R607	1-249-441-11	CARBON	100K 5% 1/4W
R611	1-249-429-11	CARBON	10K 5% 1/4W
R612	1-249-429-11	CARBON	10K 5% 1/4W
R613	1-249-429-11	CARBON	10K 5% 1/4W
R614	1-249-441-11	CARBON	100K 5% 1/4W
R615	1-249-429-11	CARBON	10K 5% 1/4W
R616	1-249-429-11	CARBON	10K 5% 1/4W
R617	1-249-429-11	CARBON	10K 5% 1/4W
R618	1-249-429-11	CARBON	10K 5% 1/4W
R620	1-249-429-11	CARBON	10K 5% 1/4W
R621	1-249-429-11	CARBON	10K 5% 1/4W
R622	1-249-429-11	CARBON	10K 5% 1/4W
R623	1-249-429-11	CARBON	10K 5% 1/4W
R624	1-249-429-11	CARBON	10K 5% 1/4W
R625	1-249-429-11	CARBON	10K 5% 1/4W
R626	1-249-433-11	CARBON	22K 5% 1/4W
R627	1-247-895-00	CARBON	470K 5% 1/4W
R629	1-249-410-11	CARBON	270 5% 1/4W
R630	1-249-393-11	CARBON	10 5% 1/4W
R631	1-249-429-11	CARBON	10K 5% 1/4W
R801	△ 1-249-401-11	CARBON	47 5% 1/4W
R802	1-247-897-11	CARBON	560K 5% 1/4W
R803	1-247-903-00	CARBON	1M 5% 1/4W
R804	1-249-417-11	CARBON	1K 5% 1/4W
R805	1-249-426-11	CARBON	5.6K 5% 1/4W
R806	1-249-435-11	CARBON	33K 5% 1/4W
R807	1-249-429-11	CARBON	10K 5% 1/4W
R808	1-249-433-11	CARBON	22K 5% 1/4W
R809	1-249-429-11	CARBON	10K 5% 1/4W
R810	1-249-417-11	CARBON	1K 5% 1/4W
R811	1-249-423-11	CARBON	3.3K 5% 1/4W
R902	△ 1-249-413-11	CARBON	470 5% 1/4W
R903	1-249-441-11	CARBON	100K 5% 1/4W
R904	1-249-437-11	CARBON	47K 5% 1/4W
R905	1-249-437-11	CARBON	47K 5% 1/4W
R906	1-249-437-11	CARBON	47K 5% 1/4W

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV221	1-238-601-11	RES. ADJ. CARBON 22K (FM SIGNAL)	
RV231	1-238-599-11	RES. ADJ. CARBON 4.7K (NARROW GAIN)	
RV251	1-238-600-11	RES. ADJ. CARBON 10K (FM MUTE LEVEL)	
RV301	1-238-604-11	RES. ADJ. CARBON 220K (STEREO SEPARATION)	
RV402	1-238-600-11	RES. ADJ. CARBON 10K (AM SIGNAL)	
RV801	1-238-599-11	RES. ADJ. CARBON 4.7K (RDS BPF)	
		< RELAY >	
RY151	1-515-614-11	RELAY	
		< ENCAPSULATED COMPONENT >	
T251	1-235-126-00	ENCAPSULATED COMPONENT (Germany, Italian)	
		< COIL >	
T252	1-404-845-11	COIL, DISCRI (PRIMARY) (NULL)	
T253	1-404-846-11	COIL, DISCRI (SECONDARY) (MONO DISTORTION)	
		< TRANSFORMER >	
T401	1-404-713-11	TRANSFORMER, IF (AM)	
		< TERMINAL >	
TM101	1-537-155-11	TERMINAL BOARD (ANT)	
		< TEST PIN >	
TP251	* 1-565-513-11	PIN, CONNECTOR 2P (NULL)	
		< VIBRATOR >	
X501	1-567-826-21	VIBRATOR, CRYSTAL (7.2MHz)	
X601	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)	
X801	1-577-358-21	VIBRATOR, CERAMIC (4.00MHz)	

		MISCELLANEOUS	

PC901	△ 1-575-651-11	CORD, POWER (AEP, Germany, Italian)	
PC901	△ 1-575-652-11	CORD, POWER (UK)	
S901	△ 1-572-267-11	SWITCH, PUSH (AC POWER) (1 KEY)	

Note: The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	

	1-501-369-11	ANTENNA (AEP, UK, Italian)	
	1-501-374-11	ANTENNA, LOOP	
	1-558-233-11	CORD (WITH CONNECTOR) (SIRCS) 4P	
	1-559-533-11	CORD, CONNECTION	
*	3-704-343-01	SHEET (STANDARD), PROTECTION	
	3-753-232-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, ITALIAN) (AEP, UK, Italian)	
	3-753-232-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDITH, PORTUGUESE) (AEP, Germany)	
*	4-930-835-01	CUSHION	
*	4-944-049-21	INDIVIDUAL CARTON	

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