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PHILIPS
Handling Chip Components

**Warning**
All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wristband with resistance. Keep components and tools at this potential.

**Wärnscheinung**
Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD). Unsorgfältige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren.

Zur Vermeidung von Schäden an den Bauteilen ist es notwendig, dass die Reparaturnen mit dem gleichen Potential wie der Schutzpotential des Gerätes arbeiten.

**Waarschuwing**
Alle IC’s en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminden.

Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat. Houd componenten en hulpmiddelen ook op dezelfde potentiaal.

**Avvertimento**
Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).

La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cautela alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell’apparecchio tramite un braccialetto a resistenza.

Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

**ATTENTION**
Tous les IC et beaucoup d’autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu’aucune précaution n’ait été prise à leur manipulation.

Lors de réparations, s’assurer de bien être relié au même potentiel que la masse de l’appareil et enfileer le bracelet avec résistance.

Veiller à ce que les composants ainsi que les outils que l’on utilise soient également à ce potentiel.

**Safety**
Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

Safety components are marked by the symbol.

**CLASS 1 LASER PRODUCT**
After servicing and before returning the set to customer perform a leakage current measurement test from all exposed metal parts to earth ground, to assure no shock hazard exists.

The leakage current must not exceed 0.5mA.

Avoid direct exposure to beam.
TECHNICAL SPECIFICATION

General

Dimensions (WxHxD) : 128x31x141 mm
Weight without batteries : 205 g

Power supply modes

DC-in socket : 2.5 - 6.0V
Primary batteries (2xLR6) : 1.8 - 3.6V
Rechargable batteries : 1.8 - 3.6V

Battery lifetime

<table>
<thead>
<tr>
<th>BATTERY TYPE</th>
<th>Battery level detection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal Carbon batteries 2 x R6</td>
<td>≥ 4h (6h typ.)</td>
</tr>
<tr>
<td>Normal Alkalite batteries 2 x LR6</td>
<td>≥ 14h (18h typ.)</td>
</tr>
</tbody>
</table>

Battery level detection

Battery empty : 1.9V nom. +100/-100 mV

Current consumption CDDA-playback

<table>
<thead>
<tr>
<th>OPERATION MODE</th>
<th>DC-IN SUPPLY (4.5V)</th>
<th>BATT. SUPPLY (2.25V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Play-mode</td>
<td>130mA typ.</td>
<td>160mA typ.</td>
</tr>
<tr>
<td>Jump-mode</td>
<td>160mA typ.</td>
<td>200mA typ.</td>
</tr>
<tr>
<td>Stand-by</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

Shock resistance

+X/-X direction : ≥ 5 g
+Y/-Y direction : ≥ 5 g
+Z/-Z direction : ≥ up to 10 g

Headphone out (measured with 16Ω load, DBB/ESP off)

Output power (THD=10%) : 2x4.5mW (+1/-3dB)
Frequency response (1mW) : 100Hz-20kHz within 6dB
S/N ratio (unwght) : ≥78dB (81dB typ.)
S/N ratio (A-weigh) : ≥82dB (84dB typ.)
THD+N (1kHz, 1mW) : ≤1% (0.2% typ.)
Channel crosstalk (1kHz, no load) : ≤33dB (33dB typ.)
Channel unbalance (-40dB) : ≤4dB
Volume attenuation (1kHz) : ≥60dB

Dynamic Bass Boost DBB

<table>
<thead>
<tr>
<th>DBB STAGE</th>
<th>Frequency response</th>
</tr>
</thead>
<tbody>
<tr>
<td>63kHz</td>
<td>1kHz</td>
</tr>
<tr>
<td>DBB</td>
<td>+5dB ±2dB</td>
</tr>
</tbody>
</table>

Laser

Output power : <5mW (3mW typ.)
Wavelength : 780nm

Measurement setup

Use Audio Signal disc SBC429

- Low pass filter
- S/N and distortion meter
- Level meter

DUT
- 22kHz 13th order
- I.e. 4822 395 30204

S/N and distortion meter
- I.e. Sound Technology ST1100B

Level meter
- I.e. Sennheiser UP4550 with FF-filter
**CONNECTIONS AND CONTROLS**

### English

<table>
<thead>
<tr>
<th>CONTROLS / POWER SUPPLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 OPEN................... opens the CD lid</td>
</tr>
<tr>
<td>2 ...................... skips and searches CD tracks backwards</td>
</tr>
<tr>
<td>3 ......................... skips and searches CD tracks forwards</td>
</tr>
<tr>
<td>4 DBB..................... switches the bass enhancement on and off. This button also switches acoustic feedback (the beep) on/off when it is pressed for more than 2 seconds</td>
</tr>
<tr>
<td>5 PROG .................... programs tracks and reviews the program</td>
</tr>
<tr>
<td>6 .................. display</td>
</tr>
<tr>
<td>7 MODE ................... selects the different playing possibilities: SHUFFLE, SHUFFLE REPEAT ALL, REPEAT, REPEAT ALL and SCAN</td>
</tr>
<tr>
<td>8 ...................... stops CD play, clears a program or switches the player off</td>
</tr>
<tr>
<td>9 ...................... switches the player on, starts or pauses CD play</td>
</tr>
<tr>
<td>10 RESUME ............... stores the last position of a CD track played</td>
</tr>
<tr>
<td>11 LINE OUT .................. 3.5 mm headphone socket, socket to connect the player to another audio input of an additional appliance.</td>
</tr>
<tr>
<td>12 VOL .................. adjusts the volume</td>
</tr>
<tr>
<td>13 4.5V DC .............. socket for external power supply</td>
</tr>
<tr>
<td>14 ...................... type plate</td>
</tr>
</tbody>
</table>

### Quick Start

**Batteries (supplied or optionally available)**

You can use the following batteries with this CD-player:

- normal batteries type LR6, UM3 or AA (preferably Philips), or
- alkaline batteries type LR6, UM3 or AA (preferably Philips).

Notes:
- Old and new or different types of batteries should not be combined.
- Remove batteries if they are empty or if the player is not going to be used for a long time.

**Inserting batteries**

1. Push OPEN ➪ to open the CD lid.
2. Open the battery compartment and insert either 2 normal or alkaline batteries.

**Battery indication**

The approximate power level of your batteries is shown in the display.

- Battery full
- Battery two-thirds full
- Battery one-third full
- Battery dead or empty: When the batteries are dead or empty, the symbol 🚚 is displayed, and the beep tone sounds repeatedly.

**Batteries contain chemical substances, so they should be disposed of properly.**
INSTRUCTION FOR USE

**POWER SUPPLY / GENERAL INFORMATION**

Use only the AY 3170 adapter (4.5 V / 300 mA direct current, positive pole to the center pin). Any other product may damage the player.
1. Make sure the local voltage corresponds to the power adapter’s voltage.
2. Connect the power adapter to the 4.5V DC socket of the player and to the wall socket.

**Environmental information**
- All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into two materials: cardboard (box) and polyethylene (bags, protective foam sheet).
- Your set consists of materials which can be recycled if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.

**GENERAL INFORMATION / CD PLAY**

Only use the AY 3545 (4822 219 10033) or AY 3548 (3140 118 71890) car voltage converter (4.5 V DC, positive pole to the centre pin) and the AY 3501 car adapter cassette. Any other product may damage the set.

1. Put the set on a horizontal, vibration-free and stable surface. Make sure it is in a safe place, where the set is neither a danger nor an obstacle to the driver and the passengers.
2. Plug the voltage converter into the cigarette lighter socket. If necessary, clean the cigarette lighter socket to obtain a good electrical contact.
3. Turn down the volume and connect the cassette adapter plug to LINE OUT/ on the set.
4. Carefully insert the cassette adapter into the car radio’s cassette compartment.
5. Make sure the cord does not hinder your driving.
6. Decrease the sound on the set, if necessary. Start playback on the set and adjust the sound with the car radio controls.
7. Always remove the voltage converter from the cigarette lighter socket when the set is not in use.

**This product complies with the radio interference requirements of the European Union.**

- Do not touch the lens A of the CD player.
- Do not expose the unit, batteries or CDs to humidity, rain, sand or excessive heat (caused by heating equipment or direct sunlight).
- You can clean the CD player with a soft, slightly dampened, lint-free cloth. Do not use any cleaning agents as they may have a corrosive effect.
- To clean the CD, wipe it in a straight line from the center toward the edge using a soft, lint-free cloth. A cleaning agent may damage the disc! Never write on a CD or attach a sticker to it.
- The lens may cloud over when the unit is moved suddenly from cold to warm surroundings. Playing a CD is not possible then. Leave the CD player in a warm environment until the moisture has evaporated.
- Active mobile phones in the vicinity of the CD player may cause malfunctions.
- Avoid dropping the unit as this may cause damage.

**Headphones HE 035**

- Connect the supplied headphones to the LINE OUT/ jack of the player.

**IMPORTANT!**

Hearing safety: Do not play your headphones at high volume. Hearing experts advise that continuous use at high volume can permanently damage your hearing.

Traffic safety: Do not use headphones while driving a vehicle. It may create a hazard and it is illegal in many countries. Even if your headphones are an open-air type designed to let you hear outside sounds, do not turn up the volume so high that you cannot hear what is going on around you.

This CD-player can play all kinds of Audio Discs such as CD-Recordables and CD-Rewritables. Do not try to play a CD-ROM, CDi, VCD, DVD or computer CD.

1. Push the OPEN slider to open the player.
2. Insert an audio CD, printed side up, by pressing the CD onto the hub.
3. Close the player by pressing the lid down.
4. Press to switch the player on and start playback. The current track number and elapsed playing time are displayed.
5. Press to stop playback. The total number of tracks and the total playing time of the CD are displayed.
6. Press again to switch the player off.

**Note:** If there is no activity, the set will automatically switch off after a while to save energy.
### INSTRUCTION FOR USE

#### CD PLAY / FEATURES

<table>
<thead>
<tr>
<th>FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>You can store up to 30 tracks to play in a program. A single track may be stored more than once in the program.</td>
</tr>
<tr>
<td>1 While playback is stopped, select a track with ← or →.</td>
</tr>
<tr>
<td>2 Press PROG to store the track. ➤PROG lights up; the track number programmed and P with the total number of stored tracks are displayed.</td>
</tr>
<tr>
<td>3 Select and store all desired tracks in this way.</td>
</tr>
<tr>
<td>4 Press HI to start playback of your selected tracks. ➤PROG is shown and playback starts.</td>
</tr>
<tr>
<td>• You can review the program by pressing PROG for more than 2 seconds. ➤The display shows all the stored tracks in sequence.</td>
</tr>
<tr>
<td>Notes: – If you press PROG and there is no track selected, SELECT is displayed. ➤If you try to store more than 30 tracks, FULL is displayed.</td>
</tr>
<tr>
<td>Clearing the program • While playback is stopped, press to clear program. ➤CLEAr goes off, and the program is cleared.</td>
</tr>
<tr>
<td>Note: The program will also be cleared if the power supply is interrupted, or if the CD-player lid is opened, or if the set switches off automatically.</td>
</tr>
</tbody>
</table>

#### Volume and bass

<table>
<thead>
<tr>
<th>Volume adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Adjust the volume by using VOL.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bass adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Press DBB to switch the bass enhancement on or off ➤DBB appears if the bass enhancement is activated.</td>
</tr>
</tbody>
</table>

#### Selecting tracks and searching

**Selecting a track during playback**

- Briefly press ← or → once or several times to skip to the current, previous or next track.
  ➤Playback continues with the selected track, and the track's number is displayed.

**Selecting a track when playback is stopped**

1. Briefly press ← or → once or several times to select the desired track. The track number is displayed.
2. Press HI to start CD play.
  ➤Playback starts with the selected track.

**Searching for a passage during playback**

1. Keep ← or → pressed to find a particular passage in a backward or forward direction.
  ➤Searching starts while playback continues at low volume. After 2 seconds the search speeds up.
2. Release the button when you reach the desired passage.
  ➤Playback continues from this position.

**Selecting different playing possibilities-MODE**

It is possible to play tracks in random order, to repeat a single track or the entire CD, and to play the first few seconds of each track.

1. Press MODE during playback as often as required in order to activate one of the following modes. The active mode is shown in the display.
   ➤SHUFFLE: All tracks of the CD are played in random order until all of them have been played once.
   ➤SHUFFLE REPEAT ALL: All tracks of the CD are played repeatedly in random order.
   ➤REPEAT: The current track is played repeatedly.
   ➤REPEAT ALL: The entire CD is played repeatedly.
   ➤SCAN: The first 10 seconds of each of the remaining tracks are played in sequence.
2. Playback starts in the chosen mode after 2 seconds.
• To return to normal playback, press MODE repeatedly until the display shows no active modes.

**ESP**

With a conventional portable CD-player you might have experienced that the music stopped e.g. when you were jogging. The **Electronic Skip Protection** prevents loss of sound caused by light vibrations and shocks. Continuous playback is ensured. However ESP does not prevent playback interruptions during vigorous running. It also does not protect the unit against any damage caused by dropping!

In this set ESP is default ON. It is possible to set ESP off.

- Press MODE for more than 2 seconds. ➤ESP disappears.
- Press MODE again for more than 2 seconds. ➤ESP is displayed.
INSTRUCTION FOR USE

FEATURES / TROUBLESHOOTING

You can interrupt playback and continue (even after an extended period of time) from the position where playback stopped (RESUME) and you can lock all buttons of the set so that no action will be executed (HOLD). Use the RESUME–HOLD–OFF slider for these functions.

RESUME – continuing from where you have stopped
1 Switch the slider to RESUME during playback to activate RESUME.
  ➡️ RESUME is shown.
2 Press  ■ whenever you want to stop playback.
3 Press  ▶ whenever you want to resume playback.
  ➡️ RESUME is shown and playback continues from where you have stopped.
  • To deactivate RESUME, switch the slider to OFF.
  ➡️ RESUME goes off.

HOLD – locking all buttons
You can lock the buttons of the set by switching the slider to HOLD. Now, when a key is pressed, no action will be executed. This is of use, for example, when transporting the player in a bag. With HOLD activated, you can avoid accidental activation of other functions.

1 Switch the slider to HOLD to activate HOLD.
  ➡️ All buttons are locked. HOLD is shown when you press any button. If the set is switched off, HOLD will be shown only when  ▶ is pressed.
2 To deactivate HOLD, switch the slider to OFF.

Note: If you deactivate HOLD by switching the slider to RESUME, you will be activating the RESUME function.

Troubleshooting

WARNING: Under no circumstances should you try to repair the set yourself as this will invalidate the warranty. If a fault occurs, first check the points listed, before taking the unit for repair. If you are unable to solve a problem by following these hints, consult your dealer or service center.

The CD player has no power, or playback does not start
• Check that your batteries are not dead or empty, that they are inserted correctly, that the contact pins are clean.
• Your adapter connection may be loose. Connect it securely.
• For in-car use, check that the car ignition is on. Also check player’s batteries.

The indication no disc is displayed
• Check that the CD is clean and correctly inserted (label-side upward).
• If your lens has steamed up, wait a few minutes for this to clear.

The indication nF disc is displayed
• CD-RW (CD-R) was not recorded properly. Use FINALIZE on your CD-recorder.

The indication HOLD is on and/or there is no reaction to controls
• If HOLD is activated, then deactivate it.
• Electrostatic discharge. Disconnect power or remove batteries for a few seconds.

The CD skips tracks
• The CD is damaged or dirty. Replace or clean the CD.
• RESUME, SHUFFLE or PROGRAM is active. Switch off whichever is on.

No sound or bad sound quality
• PAUSE might be active. Press  ▶.
• Loose, wrong or dirty connections. Check and clean connections.
• Volume might not be appropriately adjusted. Adjust the volume.
• Strong magnetic fields. Check player’s position and connections. Also keep away from active mobile phones.
• For in-car use, check that the cassette adapter is inserted correctly, that the car cassette player’s playback direction is correct (press autoreverse to change), and that the cigarette lighter jack is clean. Allow time for temperature change.
ACCESSORIES

<table>
<thead>
<tr>
<th>ACCESSORIES FOR CD-PORTABLE</th>
<th>AX2200 /00C /00Z</th>
<th>AX1101 /00C /00Z /05Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>AY3170/00 AC/DC ADAPTOR</td>
<td>4822 219 10617</td>
<td>X</td>
</tr>
<tr>
<td>AY3170/05 AC/DC ADAPTOR</td>
<td>3140 118 33610</td>
<td>X</td>
</tr>
<tr>
<td>HE035/77 HEADPHONE</td>
<td>9965 000 11492</td>
<td>X</td>
</tr>
</tbody>
</table>

SERVICE TOOLS

Audio signal disc SBC 429 ..................................................4822 397 30184
Playability test disc SBC 444 ..................................................4822 397 30245
Test disc 5 (disc without errors) +
Test disc 5A (disc with dropout errors, black spots and fingerprints)
SBC 426/426A ........................................................................4822 397 30096
Burn in test disc (65 min. 1kHz signal at -30 dB level without "pause").....4822 397 30155
Universal test cassette Fe SBC 420 .................................................4822 397 30071

ESD PROTECTION EQUIPMENT

anti-static table mat large 1200x650x1.25mm 4822 466 10953
small 600x650x1.25mm 4822 466 10958
anti-static wristband 4822 395 10223
connection box (3 press stud connections, 1MΩ) 4822 320 11307
extendible cable (2m, 2MΩ, to connect wristband to connection box) 4822 320 11305
connecting cable (3m, 2MΩ, to connect table mat to connection box) 4822 320 11306
earth cable (1MΩ, to connect any product to mat or to connection box) 4822 320 11308
KIT ESD3 (combining all 6 prior products - small table mat) 4822 310 10671
wristband tester 4822 344 13999
BLOCK DIAGRAM - SET

- LCD 4-digits segment
- Keyboard
- Servo Driver MM1538XQ
- TMP86C820U
- DC Supply
- Thomson CD Mechanism TPP38
- HF/DSP SAA7824HL
- H/P Jack
- ESP Control BU9422KS / SM5907
- DRAM 1Mx16
- DRAM 1Mx16
- DC Supply
- HF/DSP SAA7824HL
- Thomson CD Mechanism TPP38
- ESP Control BU9422KS / SM5907
- Servo Driver MM1538XQ
- LCD 4-digits segment
- Keyboard
IC BLOCK DIAGRAM

U1: MM1538XQ
IC BLOCK DIAGRAM

U4: TMP86C820U
IC BLOCK DIAGRAM

U5: SAA7824HL

Fig. 2 Pin configuration.
IC BLOCK DIAGRAM

U5: SAA7824HL
IC BLOCK DIAGRAM

U6: SM5907AF
LAYOUT DIAGRAM - component side
MECHANICAL PARTS LIST

1 9940 000 0064  CD DOOR ASSY AX23xx
9 9965 000 16219  CD DOOR SPRING RIGHT
10 9965 000 16218  CD DOOR SPRING LEFT
11 3103 301 45180  SPRING-BATTERY (+/-)
12 9965 000 16209  BATTERY DOOR
13 9965 000 16207  MIDDLE CABINET
14 9965 000 16220  OPEN KNOB SPRING
15 9965 000 16215  SLIDE KNOB-DOOR OPEN
16 9965 000 16214  SLIDE KNOB-HOLD
17 9965 000 16216  CD DAMPER 2131PD YELLOW
18 9965 000 16221  CD MECHANISM TPP33BCP
19 9965 000 16217  CD DAMPER 2131PE WHITE
21 9965 000 16208  BOTTOM CABINET

Note: Only these parts mentioned in the list are normal service parts.
## ELECTRICAL PARTLIST

<table>
<thead>
<tr>
<th>MISCELLANEOUS</th>
<th>TRANSISTORS AND IC</th>
</tr>
</thead>
<tbody>
<tr>
<td>CON626 9965 000 16222 FFC 26P 61MM</td>
<td>Q1 9965 000 16235 PBSS514G0T</td>
</tr>
<tr>
<td>F601 9965 000 16223 FUSE 0.63A</td>
<td>Q2 9965 000 16236 PBSS4140T</td>
</tr>
<tr>
<td>J601 9965 000 11404 DC JACK TC18-099-03</td>
<td>Q4 9965 000 16237 FET BS4103</td>
</tr>
<tr>
<td>J603 9965 000 16224 3.5MM STEREO JACK</td>
<td>Q8 4822 130 42615 BC817-40</td>
</tr>
<tr>
<td>LCD501 9965 000 16225 LCD DISPLAY 92424TR-H</td>
<td>Q9 5322 130 42755 BC847C</td>
</tr>
<tr>
<td>S601 9965 000 16226 CD DOOR SWITCH DTS-03</td>
<td>Q11 5322 130 42755 BC847C</td>
</tr>
<tr>
<td>S602 9965 000 16227 SLIDE SWITCH 1P3T</td>
<td>Q13 4822 130 42615 BC817-40</td>
</tr>
<tr>
<td>S603 9965 000 16235 PBSS5140T</td>
<td>Q14 4822 130 42615 BC817-40</td>
</tr>
<tr>
<td>S604 9965 000 16236 PBSS4140T</td>
<td>Q15 4822 130 42615 BC817-40</td>
</tr>
<tr>
<td>RESISTORS</td>
<td>Q16 4822 130 42615 BC817-40</td>
</tr>
<tr>
<td>VR601 9965 000 16226 VOLUME B20XK</td>
<td>Q17 4822 130 42615 BC817-40</td>
</tr>
<tr>
<td>VR602 9965 000 16227 SLIDE SWITCH 1P3T</td>
<td>Q19 5322 130 30691 BAW56</td>
</tr>
<tr>
<td>COILS &amp; FILTERS</td>
<td>Q21 5322 130 30691 BAW56</td>
</tr>
<tr>
<td>L4 9965 000 16229 INDUCTOR 2.2UH</td>
<td>Q22 4822 130 42615 BC817-40</td>
</tr>
<tr>
<td>L8 9965 000 16230 FERRITE BEAD</td>
<td>Q23 4822 130 42615 BC817-40</td>
</tr>
<tr>
<td>L9 9965 000 16230 FERRITE BEAD</td>
<td>Q24 4822 130 42615 BC817-40</td>
</tr>
<tr>
<td>L10 9965 000 16230 FERRITE BEAD</td>
<td>Q25 4822 130 42615 BC817-40</td>
</tr>
<tr>
<td>L11 9965 000 16229 INDUCTOR 2.2UH</td>
<td>Q26 4822 130 42615 BC817-40</td>
</tr>
<tr>
<td>L601 9965 000 16231 DC-DC OSC COIL</td>
<td>U1 9965 000 16238 MM1538XQ</td>
</tr>
<tr>
<td>L602 9965 000 16232 FXD INDUCTOR 33UH</td>
<td>U4 9965 000 16239 TMP48CH21U-MPC220</td>
</tr>
<tr>
<td>XT602 9965 000 16233 CERAMIC RES. 8.467MHZ</td>
<td>U5 9965 000 16240 SAA7834H-MXD</td>
</tr>
<tr>
<td>XT603 9965 000 16234 CERAMIC RES. 4.19 MHZ</td>
<td>U6 9322 169 78671 SM5907AF (NIPR) y</td>
</tr>
<tr>
<td>Note: Only these parts mentioned in the list are normal service parts.</td>
<td></td>
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<th>DIODES</th>
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<td>D5 4822 130 11397 BAS316</td>
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