TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handling chip components</td>
<td>1-1</td>
</tr>
<tr>
<td>Technical specification</td>
<td>2-1</td>
</tr>
<tr>
<td>Measuring setup</td>
<td>2-1</td>
</tr>
<tr>
<td>Connections and controls</td>
<td>2-2</td>
</tr>
<tr>
<td>Instruction for use</td>
<td>2-3</td>
</tr>
<tr>
<td>Blockdiagram - Set</td>
<td>4-1</td>
</tr>
<tr>
<td>Block diagram - Integrated Circuits</td>
<td>4-2</td>
</tr>
<tr>
<td>Accessories</td>
<td>3-1</td>
</tr>
<tr>
<td>Service tools</td>
<td>3-1</td>
</tr>
<tr>
<td>Circuit diagrams</td>
<td></td>
</tr>
<tr>
<td>Control part</td>
<td>5-1</td>
</tr>
<tr>
<td>Supply / Servo part</td>
<td>5-2</td>
</tr>
<tr>
<td>CD / Audio part</td>
<td>5-3</td>
</tr>
<tr>
<td>Layout diagrams</td>
<td></td>
</tr>
<tr>
<td>Componentside view</td>
<td>5-4</td>
</tr>
<tr>
<td>Copperside view</td>
<td>5-5</td>
</tr>
<tr>
<td>Keyboard</td>
<td></td>
</tr>
<tr>
<td>Circuit diagram</td>
<td>6-1</td>
</tr>
<tr>
<td>Layout diagram</td>
<td>6-1</td>
</tr>
<tr>
<td>Exploded view</td>
<td>7-1</td>
</tr>
<tr>
<td>Mechanical partslist</td>
<td>7-1</td>
</tr>
<tr>
<td>Electrical partslist</td>
<td>8-1</td>
</tr>
</tbody>
</table>
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.

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´a été prise à leur manipulation. Lors de réparations, s´assurer de bien être relié au même potentiel que la masse de l´appareil et enfiler le bracelet serti d´une résistance de sécurité. Veiller à ce que les composants ainsi que les outils que l´on utilise scien également à ce potentiel.

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 collegati allo stesso potenziale che quello della massa del’apparecchio tramite un braccialetto a resistenza. Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

SAFETY

VEILIGHEIDSREGULATIES vereisen, dat het apparaat in zijn oorspronkelijke staat wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast. De Veiligheidsonderdelen zijn aangeduid met het symbool.

Le nom de sécurité garantie que l’apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati. Componenti di sicurezza sono marcati con.

DANGER: Invisible laser radiation when open. AVOID DIRECT EXPOSURE TO BEAM.

WARNING ! Også laserstrålingen når apparaten er åbnet og spærren er urkopplad. Betrakta ej strålen.

VAROITUS ! Uusmyy laserstråling ved åbning når sikkerhedsafbrudere er ude af funktion. Undgå udsatsettelser for stråling.

VAROITUS ! Uusmyy laserstråling ved åbning når sikkerhedsafbrudere er ude af funktion. Undgå udsatsettelser for stråling.

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.
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

| BATTERY TYPE | Battery Life 
<table>
<thead>
<tr>
<th></th>
<th></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-wght) : ≥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

DUT

Low pass filter

S/N and distortion meter

Level meter

i.e. 4822 395 30204

Level meter

i.e. Sennheiser UPMS50 with FF-filter

i.e. Sound Technology ST1700B
CONNECTIONS AND CONTROLS

English

CONTROLs / POWER SUPPLY

1 OPEN .................. opens the CD lid
2 ...................... skips and searches CD tracks backwards
3 ...................... skips and searches CD tracks forwards
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
5 PROG .......... programs tracks and reviews the program
6 ...................... display
7 MODE ............... selects the different playing possibilities: SHUFFLE,
      SHUFFLE REPEAT, REPEAT, REPEAT ALL and SCAN
8 ...................... stops CD play, clears a program or switches the player off
9 .................... switches the player on, starts or pauses CD play
10 RESUME ............ stores the last position of a CD track played
      HOLD ............... locks all buttons
      OFF .................. switches RESUME and HOLD off
11 LINE OUT ........ 3.5 mm headphone socket, socket to connect the player to
      another audio input of an additional appliance.
12 VOL ............... adjusts the volume
13 4.5V DC .......... socket for external power supply
14 ...................... type plate

CAUTION

Use of controls or adjustments or performance of procedures other than
herein may result in hazardous radiation exposure.

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.

Note: Always disconnect the adapter when you are not using it.

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

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.
6 Press again to switch the player off.

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

- Do not touch the lens 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.
- When the set is not in use.

Note: If your car radio has a LINE IN socket, it is better to use it for the car radio connection instead of the cassette adapter. Connect the signal lead to this LINE IN socket and to LINE OUT/A on the set.

Headphones HE 035

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

Note: LINE OUT/A can also be used for connecting this set to your HiFi system. To adjust the sound and volume, use the controls on the connected audio equipment and on the CD player.

IMPORTANT!

Hearing safety: Do not play your headphones at a 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 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.
INSTRUCTION FOR USE

CD PLAY / FEATURES

- If a CD-Recordable (CD-R) or a CD-Rewritable (CD-RW) is not recorded properly, a CD ERROR message is displayed, indicating that the CD has not been finalized. In that case, use FINALIZE on your CD recorder to complete the recording.
- When playing a CD-Rewritable (CD-RW), please note that it takes 3-15 seconds after pressing the ◀ button for sound reproduction to start.
- Playback will stop if you open the CD lid.
- While the CD is read, a CD ERROR message is displayed, indicating that the CD has not been finalized. In that case, use FINALIZE on your CD recorder to complete the recording.

Volume and bass

Volume adjustment
- Adjust the volume by using VOL.

Bass adjustment
- Press DBB to switch the bass enhancement on or off. 
  - DBB appears if the bass enhancement is activated.

Selecting a track 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 ◀ or ▶ 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.

Notes:
- If the player is in SCAN mode (see MODE chapter), searching is not possible.
- In shuffle, shuffle repeat all or repeat mode (see MODE chapter), or while playing a program, searching is only possible within the particular track.

SELECTING A TRACK WHEN PLAYBACK IS STOPPED

Press ◀ or ▶ 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.

Features

You can store up to 30 tracks to play in a program. A single track may be stored more than once in the program.

1 While playback is stopped, select a track with ◀ or ▶.
2 Press PROG to store the track.
  - ◀PROG lights up, the track number programmed and ◀ with the total number of stored tracks are displayed.
3 Select and store all desired tracks in this way.
4 Press ◀ to start playback of your selected tracks.
  - ◀PROG is shown and playback starts.
  - You can review the program by pressing PROG for more than 2 seconds.
  - The display shows all the stored tracks in sequence.

Notes: - If you press PROG and there is no track selected, ◀ is displayed.
- If you try to store more than 30 tracks, ◀ is displayed.

Clearing the program
- While playback is stopped, press ◀ to clear program.
  - ◀ is displayed once, ◀ goes off, and the program is cleared.

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.

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.

ESP on → ESP off → ESP on
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.

2 Press whenever you want to stop playback.

3 Press whenever you want to resume playback.

To deactivate RESUME, switch the slider to 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.

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 no 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.
### SERVICE TOOLS

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

### ACCESSORIES FOR CD-PORTABLE

<table>
<thead>
<tr>
<th>ACCESSORIES FOR CD-PORTABLE</th>
<th>AX2200</th>
<th>AX1101</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>

### 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
IC BLOCK DIAGRAM

U1: MM1538XQ
Fig. 2 Pin configuration.
IC BLOCK DIAGRAM

U6: SM5907AF
CIRCUIT DIAGRAM - SUPPLY AND SERVO PART
LAYOUT DIAGRAM - copper side
EXPLODED VIEW DIAGRAM

MECHANICAL PARTS LIST

1. 9965 000 16211 PANEL
2. 9965 000 16212 BUTTON SET
3. 9965 000 16213 COSMETIC RING
4. 9965 000 16210 DISPLAY LENS
7. 9965 000 16206 CD DOOR
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
3103 301 45420 SPRING-BATTERY-PLUS
3103 301 45410 SPRING-BATTERY-MINUS

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

#### MISCELLANEOUS

<table>
<thead>
<tr>
<th>PARTS</th>
<th>QUANTITY</th>
<th>REFERENCE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>CON626 9965 000 16222</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F601 9965 000 16223</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J601 9965 000 11404</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J603 9965 000 16224</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LCD501 9965 000 16225</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S601 9965 000 16226</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S602 9965 000 16227</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### FUSES

<table>
<thead>
<tr>
<th>PARTS</th>
<th>QUANTITY</th>
<th>REFERENCE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>F601 9965 000 11404</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F602 9965 000 16223</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F603 9965 000 16224</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### TRANSISTORS

<table>
<thead>
<tr>
<th>PARTS</th>
<th>QUANTITY</th>
<th>REFERENCE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>G601 9965 000 16235</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J602 9965 000 16236</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J603 9965 000 16237</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### RESISTORS

<table>
<thead>
<tr>
<th>PARTS</th>
<th>QUANTITY</th>
<th>REFERENCE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>VR601 9965 000 16228</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### COILS & FILTERS

<table>
<thead>
<tr>
<th>PARTS</th>
<th>QUANTITY</th>
<th>REFERENCE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>L4 9965 000 16229</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L8 9965 000 16230</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L9 9965 000 16230</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L10 9965 000 16230</td>
<td></td>
<td></td>
</tr>
<tr>
<td>L11 9965 000 16229</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### DIODES

<table>
<thead>
<tr>
<th>PARTS</th>
<th>QUANTITY</th>
<th>REFERENCE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1 4822 130 83918</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D2 4822 130 83918</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D3 4822 130 11397</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Note:

- Only these parts mentioned in the list are normal service parts.