MTC 9000
open frame colour monitor
C. R. T. SOCKET ASSEMBLY

ADJUSTMENT BOARD AND EXTENTION CABLE
COMPTIBILITY
The MTC 9000 has been created bearing in mind its numerous predecessor that are still in daily service, so that its technical specification, its connexions, and its mechanical fixing points are all totally compatible with its antecedants, thus making possible any variation of “crosses” with chassis, picture tubes and metal structures of the old MTC 900 and its derivatives.
INTRODUCTION
The principal new features of the MTC 9000 are as follows:
- All the controls which directly affect the display, horizontal frequency, vertical frequency, vertical amplitude, horizontal amplitude, horizontal phase and vertical shift, are mounted on a small printed circuit board connected to the main board by a connecting cable.
The monitor is supplied complete with a connecting cable 1.5 metres long, which permits the remote mounting of the control board in the most convenient position for any particular application.

This “remote” feature is exclusive to the Hanlarex MTC 9000.
- Addition of two connectors to each deflection yoke with inverted connections which, by choice of connector, permits the easy inversion of the image both vertically and horizontally for certain applications.
- Introduction of a novel circuit into the power supply, which, at an excessive drop in supply voltage, transforms the stabilizer circuit into an anti-ripple circuit so permitting the use of the monitor outside the limits of stabilization.
- Use of a special three-position switch in the video input circuit using close tolerance resistors, permitting the monitor to be connected to input signals varying between 2 and 5 V p.p. without the introduction of tracking errors, which would otherwise cause undesirable colour changes.
- Introduction of a new integrated circuit [TDA 1670] for vertical deflexion which permits the achievement of a short vertical fly-back time (0.9 ms), and extends the use of the monitor where a short vertical blanking period is required.
- Introduction of a new integrated circuit in the horizontal oscillator synchronization circuit, which, among other things, provides for more accurate intervention of the X-ray protection circuit as required by the principal international safety standards, such as F.D.A., the Federal Drug Administration.

TECHNICAL SPECIFICATION

<table>
<thead>
<tr>
<th>POWER REQUIRED</th>
<th>14&quot;, 16&quot;, and 20&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>115-142 V a.c.</td>
</tr>
<tr>
<td>Frequency</td>
<td>50-400 Hz</td>
</tr>
<tr>
<td>r.m.s. Current</td>
<td>at lb 0 = 0.3 A</td>
</tr>
<tr>
<td></td>
<td>at lb 1 mA, = 0.7 A</td>
</tr>
<tr>
<td>d.c. current**</td>
<td>155-200 V d.c.</td>
</tr>
<tr>
<td>Voltage</td>
<td>at lb 0 = 0.3 A</td>
</tr>
<tr>
<td>Current</td>
<td>at lb 1 mA, = 0.7 A</td>
</tr>
</tbody>
</table>

*IMPORTANT: It is mandatory to use an isolating transformer with a capacity of at least 100 VA built to local safety standards. Hanlarex declines all responsibility for eventual damage or injury caused by non-observance of the above standards.

**IMPORTANT: It is mandatory that the d.c. supply is floating, viz. with no reference to earth and/or chassis (as is the case when using Hanlarex Power Supply US 300)

EARTH SAFETY CONNEXION
This connexion must be made to the metallic structure of the monitor which is not separable from the electrical earth.

SYNC. AND DEFLEXION
- Sync. signals
- Polarity: positive/negative
- Timing: conforms to t.v. standards ± 10%
- Separate: Amplitude 1.5 - 5 V p.p.
- Polarity: positive/negative

H width 1-10 us
H Freq. 15-16 kHz
V width 80-1000 us
V Freq. 45-70 Hz
H Phase with standard European t.v. signals the H phase control permits a displacement of the image (of nominal ampl.) of ±4 cm
V Linearity errors < 3%
H Linearity errors < 3%
H Amplitude with standard European t.v. - signals the H ampl. permits active video of 40-51 us.
V Amplitude with standard European t.v. signals the V ampl. permits active video of 16-19 ms.

***The polarity of the separate synchronizing pulses can be substituting the switch by a bridge.

VIDEO SIGNAL
- Type: RGB anal/TTL compat.
- Polarity: positive, white (high-level)
- Amplitude: 2.5 V p.p. (by use of input switch)
- Bandwidth: 10 MHz at 40 V pp.
- Rise/Fall Time: < 50 ns at 70 V p.p.

NOTE (a): The MTC 9000 is provided with both horizontal and vertical blanking signals, which permits the use of the monitor with signals without blanking.
(b): The three RGB video amplifiers are d.c. coupled; there is thus no lower limit to the pass band.
PROTECTION CIRCUITS

The MTC 9000 is provided with the following protection circuits:
a) Protection against excessive x-ray radiation.
   This circuit is obligatory in many countries, and ensures that, with the worst cathode-ray tube and with a breakdown in any part of the monitor, x-ray radiation will not exceed 0.5 mR/h. This is the international safety limit; however, in practice, statistical measurements made on Hantarex production show that radiation never exceeds 0.1 mR/h.

b) Protection of the Power Supply Unit.
   This circuit protects the power unit from accidental short-circuit which could happen during installation or adjustment of the monitor.

**DEGAUSSING CIRCUIT:**
- Demagnetizing:
  - Time between successive demagnetizations: < 30 min.

**NOTE:**
- The monitor must be left switched-off between successive de-magnetizations.
- Normally the degaussing circuit operates automatically each time it is switched on; there is available, on request, an accessory comprising a connector, a cable and a push-button, which provides for manual operation of the de-gaussing circuit.

**BEAM CURRENT LIMITER:**
- Level of limit: 1 mA approx.

**FUSES:**
- F1: 2 AT (slow-blow)
- F2: 3 AT (slow-blow)

**NOTE:**
Fuse F1 protects the whole monitor with the exception of the de-gaussing circuit. Fuse F2 protects the de-gaussing circuit only.

INSTALLATION

a) Connect to the power source as follows via connector CC:
   **Contacts 1-2** to an isolated source (see note) of alternating current at 128V, 50-400 Hz capable of supplying 100VA. Alternatively, one may use a direct current supply in the range 155-200 V, irrespective of polarity, subject to its being isolated from chassis or earth, as, for example, one of the Hantarex series US 200/US 250/US 300. (see the note)
   **Contacts 3-4** to the mains supply at 220-240 V a.c., 50-60 Hz.

b) Connect to the signal source as follows via connector CA:
   **Contact 1** positive video signal BLUE (B)
   **Contact 2** positive video signal GREEN (G)
   **Contact 3** positive video signal RED (R)
   **Contact 4** common signal earth (GND)
   **Contact 5** vertical sync. (or no connexion if using composite sync.) V SYNC
   **Contact 6** horizontal or composite sync. H SYNC

**Important**
The use of an isolating transformer is obligatory; it needs a power capacity of at least 100VA and to be constructed to meet local safety regulations. Hantarex accepts no responsibility for any harm to persons or property resulting from non-observance of this warning.

**Important**
It is obligatory that the direct current source shall be «floating», i.e. without any reference to earth or chassis, such as in the case of the Hantarex US 200/US 250/US 300.

c) Connect the Earth wire to the metal structure as prescribed by safety regulations.

d) Set the sync. selector switch (SW4) to adjust the monitor for the type of synchronizing signals available; SW4 functions on both composite sync., and on separate sync. (simultaneously).

e) Set the input selector SW3 to adjust the monitor to accept the level of video signal available; the monitor functions in the range 1.5 - 5 V p.p.

f) If necessary is possible to invert the image (vertically and horizontally) by inserting the connector to the deflexion yoke in position CL.

g) If it is necessary to adjust the controls on the removable control panel (either with the panel inserted in the chassis or connected via its extension lead) the image characteristics are optimized as follows:

- H freq. - horizontal scan frequency
  Adjust within the range 15.625 +/- 0.3 kHz to obtain the most stable display.
- V freq. - vertical scan frequency
  Adjust from the condition where the image scrolls upwards to obtain a stable display.
- V ampl. - vertical scan amplitude
  Adjust for optimum display height.
- H ampl. - horizontal scan amplitude
  Adjust for optimum display width.
- H phase - horizontal phase
  Adjust for correct horizontal positioning of the display.
- V shift - vertical shift
  Adjust for correct vertical positioning of the display.
## SETTING-UP SPECIFICATION

<table>
<thead>
<tr>
<th>regulation or control</th>
<th>test signal</th>
<th>measurement conditions</th>
<th>point of measurement</th>
<th>point of regulation</th>
<th>value</th>
</tr>
</thead>
<tbody>
<tr>
<td>monitor supply voltage</td>
<td>grid</td>
<td></td>
<td>TP10</td>
<td></td>
<td>130 ± 3% V d.c.</td>
</tr>
<tr>
<td>horiz. synchronization</td>
<td>grid</td>
<td>set SW4, bridge TP6 &amp; TP7</td>
<td>screen</td>
<td>RV5</td>
<td>adjust to obtain most stable display unbridge TP6 &amp; TP7</td>
</tr>
<tr>
<td>vert. synchronization</td>
<td>grid</td>
<td>check 50 &amp; 60 Hz</td>
<td>screen</td>
<td>RV1</td>
<td>adjust to stabilize upward scrolling display</td>
</tr>
<tr>
<td>horiz. oscillator supply voltage</td>
<td>grid</td>
<td></td>
<td>TP12</td>
<td></td>
<td>12 v ± 5% V d.c.</td>
</tr>
<tr>
<td>vert. oscillator supply voltage</td>
<td>grid</td>
<td></td>
<td>TP13</td>
<td></td>
<td>26 ± 5% V d.c.</td>
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<tr>
<td>video amplifier supply voltage</td>
<td>grid</td>
<td></td>
<td>TP1</td>
<td></td>
<td>24 ± 5% V d.c.</td>
</tr>
<tr>
<td>video output stage supply voltage</td>
<td>grid</td>
<td></td>
<td>SP11</td>
<td></td>
<td>190 ± 5% V d.c.</td>
</tr>
<tr>
<td>diode modulator</td>
<td>grid</td>
<td>horizontal amplitude RV4 set to minimum</td>
<td>TP9</td>
<td>B3</td>
<td>adjust for maximum *</td>
</tr>
<tr>
<td>G2 voltage</td>
<td>grey scale</td>
<td></td>
<td>p.c.b. ZG</td>
<td>TH2 ‘screen’</td>
<td>set for 600 V d.c. (100:1 probe) **</td>
</tr>
<tr>
<td>black level</td>
<td>grey scale</td>
<td>set RV203, 204 &amp; 205 to screen min &amp; RV 201 &amp; 202 half</td>
<td>RV7</td>
<td></td>
<td>adjust to make the darkest band disappear and the adjacent band just visible</td>
</tr>
<tr>
<td>c.r.t. cut-off</td>
<td>none</td>
<td>faintly illuminated screen by G2</td>
<td>screen</td>
<td>RV203, 204 &amp; 205</td>
<td>eliminate the dominant colour by adjustment of the other two colours, adjusting brightness</td>
</tr>
<tr>
<td>white level</td>
<td>white field</td>
<td></td>
<td>KR &amp; KG p.c.b. ZG</td>
<td>RV 201 &amp; 202</td>
<td>adjust the level of green and red cathodes to same as blue</td>
</tr>
<tr>
<td>focus</td>
<td>dot</td>
<td>medium brightness</td>
<td>screen</td>
<td>TH2 focus</td>
<td>adjust for best focus</td>
</tr>
<tr>
<td>horizontal linearity</td>
<td>grid</td>
<td></td>
<td>screen</td>
<td>B1</td>
<td>adjust width of first square equal to last</td>
</tr>
</tbody>
</table>

*The maximum voltage at TP9 can vary between approximately 34 and 50 V d.c. according to the type of c.r.t. used.

**The position of the shaft of G2 is marked with a reference point.
MONITOR

MTC9000 14, 16, 20"

PARTS LIST
### EAST–WEST P.C.B. ASSY code 62008060

<table>
<thead>
<tr>
<th>CODE</th>
<th>DESCRIPTION</th>
<th>REF. NO.</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>23044710</td>
<td>TRIMMER 4.7K HORZ. REG. PT120V</td>
<td>RV401</td>
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</tr>
<tr>
<td>34072885</td>
<td>5 WAY FEMALE CONNECTOR PRESSACO UTH1800 CI</td>
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<tr>
<td>36249449</td>
<td>HEXAGONAL SHAFT PHILIPS 62241717060</td>
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<tr>
<td>21234770</td>
<td>CARBON RESISTOR 470K, 5% 1/4W</td>
<td>R406</td>
<td>1</td>
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<tr>
<td>21234780</td>
<td>CARBON RESISTOR 12K, 5% 1/4W</td>
<td>R406-407</td>
<td>2</td>
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<tr>
<td>21234790</td>
<td>CARBON RESISTOR 10K, 5% 1/4W</td>
<td>R424</td>
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<tr>
<td>21234800</td>
<td>CARBON RESISTOR 4.7K, 5% 1/4W</td>
<td>R423</td>
<td>1</td>
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<tr>
<td>21234810</td>
<td>CARBON RESISTOR 18K, 5% 1/4W</td>
<td>R406</td>
<td>1</td>
</tr>
<tr>
<td>21234820</td>
<td>CARBON RESISTOR 10K, 5% 1/4W</td>
<td>R405</td>
<td>1</td>
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<tr>
<td>21234830</td>
<td>TRANISITOR BC547 TR401</td>
<td>C401</td>
<td>1</td>
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<tr>
<td>24426220</td>
<td>RADIAL ELECT. CAPACITOR 220UF 16V P5</td>
<td>C406</td>
<td></td>
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<tr>
<td>24426230</td>
<td>RADIAL ELECT. CAPACITOR 22UF 16V P5</td>
<td>C406</td>
<td></td>
</tr>
<tr>
<td>24426240</td>
<td>RADIAL ELECT. CAPACITOR 4.7UF 16V P5</td>
<td>C405</td>
<td></td>
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<tr>
<td>25163110</td>
<td>FILM CAPACITOR 1.553MFD 63V 5% P5</td>
<td>C403</td>
<td></td>
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<tr>
<td>25281100</td>
<td>MYLAR CAPACITOR 100NF 100V 10% P5</td>
<td>C401-402</td>
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</table>

### CONTROLS P.C.B. ASSEMBLY code 62007750

<table>
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<tr>
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<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>21337700</td>
<td>CARBON RESISTOR 270K 5% 1/2W</td>
<td>R106</td>
<td>1</td>
</tr>
<tr>
<td>21338900</td>
<td>CARBON RESISTOR 290K 5% 1/2W</td>
<td>R117</td>
<td>1</td>
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<tr>
<td>23041300</td>
<td>SEAMED TRIMMER 1K HORZ. REG. PT120V</td>
<td>RV4</td>
<td></td>
</tr>
<tr>
<td>23044710</td>
<td>SEAMED TRIMMER 47K HORZ. REG. PT120V</td>
<td>RV1</td>
<td></td>
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<tr>
<td>23051630</td>
<td>SEAMED TRIMMER 10K HORZ. REG. PT120V</td>
<td>RV4-5-6</td>
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<tr>
<td>23062220</td>
<td>SEAMED TRIMMER 22K HORZ. REG. PT120V</td>
<td>RV2</td>
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<tr>
<td>34075950</td>
<td>11 WAY FEMALE CONNECTOR PRESSACO UTH18002 CG</td>
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<tr>
<td>34075950</td>
<td>POLARIZATION KEY 1227-568</td>
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<td>31046500</td>
<td>CONTROLS P.C.B. MTC0000 CG</td>
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<td>32043400</td>
<td>SHAFT FT15 RADIO/HM P15 L44 D6</td>
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<td>32043400</td>
<td>HEXAGONAL SHAFT PHILIPS 62241717060</td>
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### POWER IN WIRING ASSEMBLY code 61000120

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<tbody>
<tr>
<td>34223000</td>
<td>AMP FEMALE LUGS 290702/1</td>
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<tr>
<td>34223000</td>
<td>AMP CONNECTOR MOD. 1.4F 280561</td>
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<td>36270120</td>
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<td>81000120</td>
<td>M.O.C.F.</td>
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### SIGNALS INPUT WIRING ASSY code 61000140

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<td>34223000</td>
<td>AMP FEMALE LUGS 290702/1</td>
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<td>34223000</td>
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### YOKE WIRING ASSEMBLY code 61001070

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<tr>
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### DEGAUSSING COIL ASSY 20" code 61004200

### DEGAUSSING COIL ASSY 16" code 62005130

### DEGAUSSING COIL ASSY 14" code 62005130

### CRT MAINFRAME ASSY 20" code 62008490

<table>
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<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>42114110</td>
<td>CAP SCREW M420 Zn</td>
<td>4</td>
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</tr>
<tr>
<td>42042650</td>
<td>SELF TAPPING SCREW 4.2x0.5</td>
<td>8</td>
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<tr>
<td>40830110</td>
<td>SELF TAPPING SCREW 6.2x10</td>
<td>4</td>
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<tr>
<td>42050100</td>
<td>WASHER UNI 6053-69 12 d8</td>
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<tr>
<td>50111210</td>
<td>LEFT LEG x20&quot; MAINFRAME UTH441</td>
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<tr>
<td>50111220</td>
<td>LEFT LEG x20&quot; MAINFRAME UTH442</td>
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<tr>
<td>50111230</td>
<td>CENTRAL LEG x20&quot; MAINFRAME UTH443</td>
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<tr>
<td>50111240</td>
<td>BASE PLATE x20&quot; MAINFRAME UTH440</td>
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<tr>
<td>50111450</td>
<td>CRT NECK REINFORCING FRAME UTH444</td>
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<tr>
<td>53874720</td>
<td>X RAY LABEL MTC0000 UTH136</td>
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### CRT MAINFRAME ASSY 16" code 62003720

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<tbody>
<tr>
<td>30111390</td>
<td>CENTRAL LEG x16&quot;</td>
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<tr>
<td>30111390</td>
<td>RIGHT LEG x16&quot;</td>
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<td>30111370</td>
<td>LEFT LEG x16&quot;</td>
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<td>30111390</td>
<td>BASE PLATE x16&quot;</td>
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### CRT MAINFRAME ASSY 14" code 62003700

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<tbody>
<tr>
<td>50111150</td>
<td>LEG x14&quot; MAINFRAME</td>
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</tr>
<tr>
<td>50111200</td>
<td>BASE PLATE 14&quot;</td>
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### CRT ASSEMBLY 20" code 62008050

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<thead>
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</thead>
<tbody>
<tr>
<td>20810220</td>
<td>CRT 20&quot; E/L, ORION OR VIDEOCOLOR A51-427X</td>
<td>51000220 TOCK</td>
<td>1</td>
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<tr>
<td>43005200</td>
<td>SPRING FOR CRT GROUNDING UTH664</td>
<td>1</td>
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<tr>
<td>43005200</td>
<td>WIRE HDG FOR DEGAUSSING COIL UTH136</td>
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<tr>
<td>43005200</td>
<td>EXTENSION SPRING 20&quot; USA UTH157</td>
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<tr>
<td>50404745</td>
<td>TIE FASTEX 32-0065-1151 L25</td>
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<tr>
<td>53873710</td>
<td>LABEL FOR CRT 20&quot; ORION UTH290</td>
<td>1</td>
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<tr>
<td>3873770</td>
<td>LABEL FOR CRT, MAINFRAME, PACKING VG UTH283</td>
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