

# Sony Dtc-57-es Dat , Original Service Manual

## DTC-57ES/750

### SERVICE MANUAL



Photo : DTC-57ES

US Model  
Canadian Model  
AEP Model  
E Model  
DTC-57ES  
US Model  
Canadian Model  
UK Model  
DTC-750

#### SPECIFICATIONS

|                               |                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------|
| Tape                          | Digital audio tape                                                                   |
| Recording head                | Rotary head                                                                          |
| Recording time                | Standard: 120 minutes<br>Long-play mode: 240 minutes<br>(with DT-120)                |
| Tape speed                    | Standard: 8.15 mm/s<br>Long-play mode: 4.075 mm/s                                    |
| Drum rotation                 | Standard: 2,000 rpm<br>Long-play mode: 1,000 rpm                                     |
| Error correction              | Double Read Solomon code                                                             |
| <b>Tape</b>                   |                                                                                      |
| Track pitch                   | 13.6 $\mu$ m (20.4 $\mu$ m)                                                          |
| Sampling frequency            | 48 kHz, 44.1 kHz, 32 kHz                                                             |
| Modulation system             | 8-10 Modulation                                                                      |
| Transfer rate                 | 2.46 Mbit/sec                                                                        |
| Number of channel             | 2 channels, stereo                                                                   |
| D/A conversion (Quantization) | Standard: 16-bit linear<br>Long-play mode: 12-bit non-linear                         |
| Frequency response            | Standard: 2-22,000 Hz ( $\pm 0.5$ dB)<br>Long-play mode: 2-14,500 Hz ( $\pm 0.5$ dB) |

|                                  |    | DTC-57ES (AEP, E model), DTC-750 | DTC-57ES (US, Canadian model) |
|----------------------------------|----|----------------------------------|-------------------------------|
| Signal to noise ratio            | SP | more than 92dB                   | more than 93dB                |
|                                  | LP |                                  | more than 92dB                |
| Dynamic range                    | SP | more than 92dB                   | more than 93dB                |
|                                  | LP |                                  | more than 92dB                |
| Total harmonic distortion (1kHz) | SP | less than 0.0045%                | less than 0.004%              |
|                                  | LP | less than 0.08%                  | less than 0.08%               |

\*SP : Standard  
LP : Long-play mode



|                                    |          |
|------------------------------------|----------|
| Model Name Using Similar Mechanism | NEW      |
| Tape Transport Mechanism Type      | DATM-100 |

Wow and flutter Below measurable limit ( $\pm 0.001\%$  W. PEAK)

#### Input

|            | Jack type    | Impedance | Rated input level |
|------------|--------------|-----------|-------------------|
| LINE IN    | phono jack   | 47 kohms  | -4 dBs            |
| DIGITAL IN | phono jack   | 75 ohms   | 0.5 Vp-p, 20%     |
| DIGITAL IN | optical jack | —         | —                 |

#### Output

|                        | Jack type         | Impedance | Rated output         | Load impedance     |
|------------------------|-------------------|-----------|----------------------|--------------------|
| LINE OUT               | phono jack        | 470 ohms  | -4 dBs               | More than 10 kohms |
| PHONES                 | stereo phone jack | 220 ohms  | 0.6 mW               | 32 ohms            |
| DIGITAL OUT (DTC-57ES) | phono jack        | 75 ohms   | 0.5 Vp-p, $\pm 20\%$ | —                  |

DIGITAL OUT (optical jack): wavelength 660 nm

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DIGITAL AUDIO TAPE DECK  
**SONY**

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