

E. Service Mode

E.1 Introduction

A Service Test program (Service mode) has been included in the software of the microcalculators. It is divided into two separate OSD pages:

Service Status

This level allows the inspection of the tape deck status, the different sensors and the mask numbers of the Deck and Control μ Cs.

Validating the SERVICE CONTROL line offers access to the second page of the service mode.

Service Control

This level allows actions on the set's configuration as well as some adjustments. Moreover, the last 3 faults that occurred and the operating hours are displayed.

E.2 Activating the Service Mode

Simultaneously press the STOP key on the remote control and the PLAY key on the keyboard for at least 5 seconds to gain access to the Service mode.

The first page of the Service Mode is displayed as shown on fig. 1-5.

To gain access to the second page of this menu, validate the SERVICE CONTROL line using the OK or ► key on the remote control. The second page is then displayed as shown in fig. 1-6.

The Service Mode can be activated from any operating state of the VCR other than:

- Program search
- Installation
- Clock setting
- Cassette select

In the Service mode, all tape deck functions remain operational. To exit the Service Mode, press the STANDBY key or disconnect the set from the mains.

Note that it is possible to switch off the Service Mode's display by pressing MENU on the remote control; **but BEWARE** as in this case full functionality is not be recovered. To recover all functions, exit the Service mode completely (see above).

E.3 Monitoring the tape deck functions

If none of the following signals appear, the set tries to move the cassette holder into the EJECT position.

E.3.1 Loading/unloading duration

The loading/unloading duration control is controlled by the photo-transistor sensing the loading motor's rotations.

E.3.2 No left or right reel rotation

The left and right reel sensors are used for this detection.

E.3.3 No head drum rotation

The PG/FG signal is used for this detection. It indicates the heads position as well as the rotation speed of the drum motor.

E.3.4 Capstan motor fault

This is detected by the FGD signal.

E.3.5 Function of the Init switch

The following diagram shows the Init switch status in relation to the tape deck position. The number of loading pulses (FTA) is important for a correct position of the tape deck.

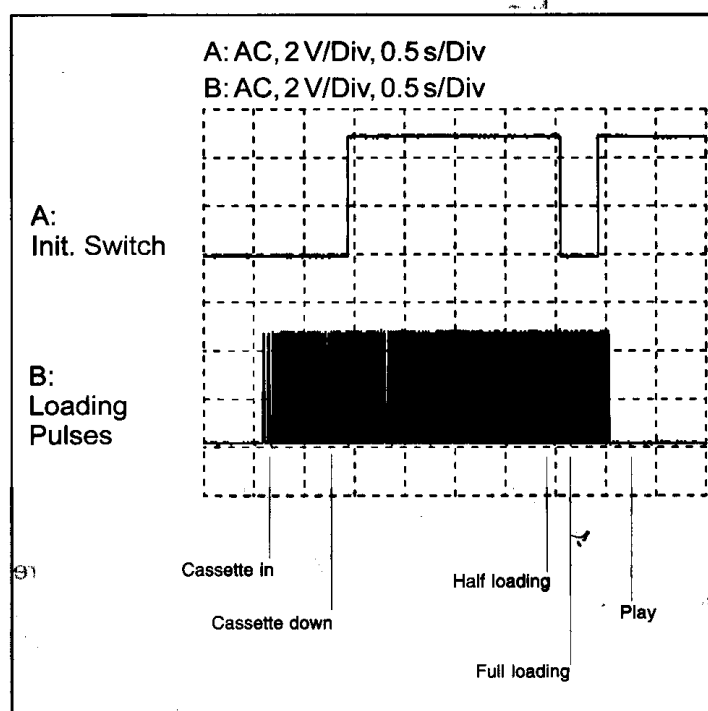


Fig. 1-7