

# SECTION3 ELECTRICAL

## ELECTRICAL ADJUSTMENT PROCEDURES

### Electronic Test Equipment

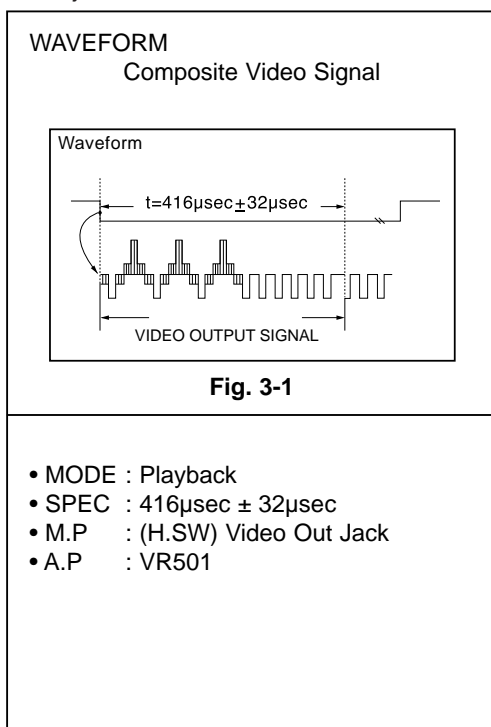
- |                          |                  |                      |
|--------------------------|------------------|----------------------|
| • Oscilloscope           | • + Driver       | • Digital Multimeter |
| • Video Signal Generator | • Test Tape (SP) | • Monitor Scope      |
| • Level Meter            | • Recording Tape | • Power Supply       |

### ABBREVIATIONS

- |                        |                           |                          |
|------------------------|---------------------------|--------------------------|
| • SPEC : SPECIFICATION | • M.P : MEASUREMENT POINT | • A.P : Adjustment Point |
|------------------------|---------------------------|--------------------------|

### 1. Servo Circuit

#### 1) PG Adjustment



#### Purpose:

For the phase dividing of the Video A,B heads with  $180^\circ$  and the exact tracking of each track to meet head switching point with VHS Spec.

#### Procedure:

- Playback a PAL SP test tape.  
(At this time, the "ART" is lighting, after pressing the A. TR(+) or A. TR (-) and adjust the X-Value).
- Connect CH-1 terminal of oscilloscope to (H.SW) and CH-2 terminal to Video Out Jack of the unit.
- Trigger the complex Video signal of CH2 to CH-1 (H.SW), and adjust VR501 so that the distance from A(B) head selection point of H.SW signal to the starting point of Vertical synchronized signal is  $416\mu\text{sec} \pm 32\mu\text{sec}$ .

#### Reference:

- $\pm$ PG adjustment is practiced in the state of maximum RF level and locked servo system.
- The deviation between A/B Head Adjustment location should be within  $\pm 20\mu\text{sec}$ .
- The deviation between the specification of adjustment and the practical measurement value should be within  $\pm 20\mu\text{sec}$ .
- Oscilloscope and VCR set should be connected with GND.

#### 2) Connection Diagram

