

#### 4. SIGNAL PATH

- (A) INJECT A 1KHZ SIGNAL AT INPUT JACK OR KA-1 ON DISASSEMBLED UNITS, PROBE TP-1 AND ADJUST INPUT LEVEL FOR 10V P-P.
- (B) SWITCH TO FLANGE MODE, PROBE TP-10, CHECK FOR 9.5V P-P (ENCODE).
- (C) PROBE TP-6, CHECK FOR 9.5V P-P (DECODE). TURN MANUAL END TO END WHILE OBSERVING SIGNAL, SWITCH TO CHORUS AND REPEAT PROCESS.
- (D) SWITCH OUT OF CHORUS MODE AND PROBE TP-2, CHECK FOR 9.5V P-P (ECHO ENCODE). NOTE: IF FLANGER OR CHORUS IS ENGAGED, SOME PHASE CANCELLATION WILL OCCUR.
- (E) PROBE TP-7, CHECK FOR 9.5V P-P (ECHO DECODE). TURN MULTIPLIER CCW, SIGNAL SHOULD MOMENTARILY SUSTAIN, INCREASE FOR THE DURATION OF THE TIME DELAY SETTING AND THEN RETURN TO 9.5V P-P.
- (F) PROBE TP-14 (OUTPUT), TURN OUTPUT LEVEL TO MAXIMUM, SIGNAL SHOULD BE APPROXIMATELY 9V P-P.

#### 5. ENCODE/DECODE OFFSET ADJUSTMENT

- (A) USING A DUAL TRACE SCOPE, PROBE U25-1 (ENCODE OFFSET) ON CHANNEL 1 AND U25-8 (DECODE OFFSET) ON CHANNEL 2. ADJUST T-3 (ENCODE TRIMMER) FOR MAXIMUM STABILITY (TRIMMER WIPER CONTACT SHOULD BE APPROXIMATELY AT THE 9 O'CLOCK POSITION IN REFERENCE TO THE FRONT PANEL AND SHOULD NEVER BE ADJUSTED ABOVE THIS POSITION).
- (B) ADJUST THE DECODE OFFSET LEVEL (T-4) JUST SLIGHTLY BELOW THAT OF THE ENCODE LEVEL (THIS WILL PREVENT THE FLANGER FROM SELF OSCILLATING). REFER TO "DIGITAL TRACKING SHEET".
- (C) REPEAT STEP A, PROBING U45 AND ADJUSTING T-6 (ENCODE).
- (D) ADJUST DECODE OFFSET (T-7) FOR THE SAME AMPLITUDE AS THE ENCODE. REFER TO "DIGITAL TRACKING SHEET".

#### 6. FLANGE/ECHO REGENERATION

- (A) INJECT A 1KHZ SIGNAL, PROBE TP-14, SELECT FLANGE MODE, TURN ALL FLANGE CONTROLS CW AND ADJUST T-5 FOR NEAR OSCILLATION.
- (B) SELECT DELAY MODE 64MS RANGE, TURN ALL DELAY CONTROLS CW AND ADJUST T-8 FOR NEAR OSCILLATION.

#### 7. PHASE INVERT/REPEAT HOLD

- (A) INJECT A 1KHZ SIGNAL, PROBE TP-14, SELECT FLANGE MODE, EXTERNAL TRIGGER SCOPE AND ENGAGE PHASE INVERT BUTTON, A 180 DEGREE PHASE WILL OCCUR.
- (B) SELECT ECHO MODE, ENGAGE REPEAT HOLD AND REMOVE INPUT SIGNAL. SIGNAL WILL REMAIN ON INFINITE HOLD UNTIL RELEASED.

#### 8. FLANGE/CHORUS LFO

- (A) PROBE TP-15 AND SELECT FLANGE MODE. TURNING DEPTH AND RATE CW, A TRIANGLE-WAVE WILL BE PRESENT.
- (B) SELECT CHORUS MODE. TURNING DEPTH AND RATE CW, A SINE-WAVE WILL BE PRESENT.

