

REV. NC.	A
6 8 A 9 4 4 7 4 4	
CONT ON SHEET 4	SH NO. 3

TITLE TEST INSTRUCTIONS MULTIPLIER (3PH POWER)	FIRST MADE FOR IC3600SMLC1 CYCLOCONVERTER
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+12V = PIN 27 -12V PIN 29 COM 2, 50, 31

REVISIONS

III. PROCEDURE

- A. ADJUST R31 ON ALL THREE CIRCUITS TO APPROXIMATELY 10 TURNS FROM EITHER END.
- B. OFFSET AND SCALE FACTOR ADJUSTMENT (CIRCUIT #1)

1. X INPUT OFFSET

*WAVETER IN ON PIN #1
AC = OFF*

3 IDENT. CIRC.

A) S1 IN POS 3

B) S2 IN POS 1

C) S3 IN POS 1

*CR1 CKT CKR
2 3*

D) MONITOR TP2 (34) WITH SCOPE (LESS THAN 50MV/CM SENSITIVITY) WITH RESPECT TO SCOM.

E) ADJUST X-OFFSET POTENTIOMETER, R29 FOR AN AC NULL AT TP2. RIPPLE SHOULD BE LESS THAN 50 MV P-P.

2. Y INPUT OFFSET

A) S1 IN POS 1

B) S2 IN POS 3

C) S3 IN POS 1

D) ADJUST Y-OFFSET POTENTIOMETER, R28 FOR AN AC NULL AT TP2 WITH RESPECT TO SCOM. RIPPLE SHOULD BE LESS THAN 50 MV P-P.

3. OUTPUT OFFSET

A) S1 IN POS 3

B) S2 IN POS 3

C) ADJUST OUTPUT OFFSET POTENTIOMETER, R30 UNTIL THE OUTPUT VOLTAGE AT TP2 IS ZERO VOLTS DC ± 10 MV.

4. SCALE FACTOR

A) S1 IN POS 2

B) S2 IN POS 2

C) *PIN 4* TP1 AT +8.00 VOLTS ± 8 MV *on Test Box R1 (ADJUST R1 ON AUX CARD)*

D) ADJUST R31 TO ACHIEVE -5.333 VOLTS ± 5 MV AT TP2 (34)

E) TP1 AT -8.00 VOLTS ± 8 MV

F) NOTE THAT TP2 IS -5.333 VOLTS ± 60 MV

G) IF OUTPUT ERROR IS MORE THAN 60MV REPEAT STEPS 1 THROUGH 4.

C. OFFSET AND SCALE FACTOR ADJUSTMENT (CIRCUIT #2) - SAME AS PROCEDURE A FOR CIRCUIT #1 EXCEPT S3 IN POS #2.

D. OFFSET AND SCALE FACTOR ADJUSTMENT (CIRCUIT #3) - SAME AS PROCEDURE A FOR CIRCUIT #1 EXCEPT S3 IN POS #3.

R31
R28
R30
R29

6V
P6A
133B

PRINTS

MADE BY J. M. TURNER	APPROVALS <i>R 4</i>
ISSUED SEPTEMBER 14, 1972	

DIV OR DEPT.	6 8 A 9 4 4 7 4 4	CONT ON SHEET 4	SH NO. 3
LOCATION			

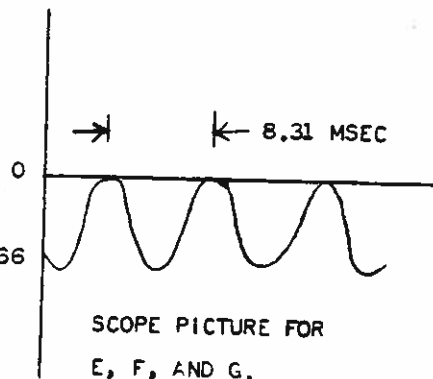
WAVE TEK OFF, A.C. ON

E. X AND Y HIGH INPUTS (CIRCUIT #1)

1. S4 IN POSITION 3
2. S3 IN POSITION #1
3. S1, S2 IN POSITION #4
4. NOTE -4.166 VOLTS \pm .17 VOLTS PEAK 120HZ AT TP2 ^{AC KE ON FLUKE (34)}

F. X AND Y HIGH INPUTS (CIRCUIT #2)

1. S4 IN POSITION #3
2. S3 IN POSITION #2
3. S1, S2 IN POSITION #4
4. NOTE -4.166 VOLTS \pm .17 VOLTS PEAK 120HZ AT TP2 ^{TP2 (34)}



G. X AND Y HIGH INPUTS (CIRCUIT #3)

1. S4 IN POSITION #3
2. S3 IN POSITION #3
3. S1, S2 IN POSITION #4
4. NOTE -4.166 VOLTS \pm .17 VOLTS PEAK 120HZ AT TP2 ^{TP2 (34)}

H. SCALING AMPLIFIERS

1. S4 IN POSITION #1 ^{BVPP (17)}
2. NOTE 2.877 \pm .058 VRMS AT TP3 AND TP4 180° OUT OF PHASE WITH VOLTAGE AT TP5. ^{(49) USE LINE SYNC ON 34K SCOPE (51)}
3. S4 IN POSITION #2
4. NOTE 2.877 \pm .058 VRMS AT TP3 AND TP4 180° OUT OF PHASE WITH VOLTAGE AT TP5. ^{(17) (49) (51)}
5. JUMPER A, B, C, D, TOGETHER. 13, 15, 45, 47
6. NOTE 5.75 \pm .17 VRMS AT TP3 AND TP4.

I. NULL CHECK

1. S1 IN POSITION #1
2. S2 IN POSITION #3
3. NOTE ^{(4) +800V} ~~TP1~~ ^{TP1} VOLTS \pm 0.5 VOLTS SET WITH R1 ON ADJ CARD.
4. S3 AT POSITION #1
5. NOTE OUTPUT OF ZERO VOLTS \pm 100 MV AT TP2 ⁽³⁴⁾
6. S3 AT POSITION #2
7. NOTE OUTPUT OF ZERO VOLTS \pm 100 MV AT TP2 ⁽³⁴⁾
8. S3 AT POSITION #3
9. NOTE OUTPUT OF ZERO VOLTS \pm 100 MV AT TP2 ⁽³⁴⁾
10. S1 IN POSITION #3

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APPROVALS

R 4

INDUSTRY CONTROL
SALEM, VIRGINIA

DIV OR
DEPT.

LOCATION

6 8 A 9 4 4 7 4 4

CONT ON SHEET 5

SH NO. 4

91-1-27-77

DL-12

PRINTS TO

REV
MC

L

TITLE

CONT ON SHEET

FL. SH NO. 5

6 8 A 9 4 4 7 4 4

TEST INSTRUCTIONS FOR
MULTIPLIER (3PH POWER)

CONT ON SHEET FL. SH NO. 5

FIRST MADE FOR IC3600SMLC1 CYCLOCONVERTOR

REVISI

I. NULL CHECK CONTINUED

11. S2 IN POSITION #1

12. TP1 AT -8.00 VOLTS \pm 0.5 VOLTS *SET WITH R1 ON AUX CARD.*13. NOTE OUTPUT OF ZERO VOLTS \pm 100 MV AT TP2

14. S3 IN POSITION #2

15. NOTE OUTPUT OF ZERO VOLTS \pm 100 MV AT TP2

16. S3 IN POSITION #1

17. NOTE OUTPUT OF ZERO VOLTS \pm 100 MV AT TP2

J. APPLY RTV TO ALL TRIM POT SCREWS.

6V

PGA

1338

PRINTS TO

MADE BY

J. M. TURNER

APPROVALS

FUG

INDUSTRY CONTROL

DIV OR
DEPT.

6 8 A 9 4 4 7 4 4

ISSUED

SEPTEMBER 14, 1972

SALEM, VIRGINIA

LOCATION

CONT ON SHEET

FL. SH NO. 5