GE Canada
Electronic Products Repair
3070 Mainway Drive; Unit 23A Rear
Burlington, Ontario L7M 3X1
(905) 332-2431

Test Instructions for

0621L0351 G001
Device Number

Leg Gate Pulse Amplifier
Description of Device

Originated By: Dennis Cully
Typed Name

Date: Dec. 19, 1997
mm/dd/yy

Approved By: Rob Bartosik
Signature

Approval Date: Dec/19/1997
mm/dd/yy

TEST INSTRUCTIONS
PREVIOUS REVISION SHEET

0621L0351 G001
Device Number
Leg Gate Pulse Amplifier
Description of Device

Originated By	Date mm/dd/yy	Description of change
D Cleveland	Sept. 13, 1983	Created test instructions for Leg Gate Pulse Amplifier 0621L0351 G001
Dennis Cully	Dec. 19, 1997	Created cover and revision sheet

TEST INSTRUCTIONS

1. PURPOSE:

   Static and dynamic test procedures for Leg Gate Pulse Amplifier 0621L0351 G001

2. ELEMENTARY:

   See original test instruction

3. EQUIPMENT:

4. SET UP:

5. PROCEDURE:

6. END.

ENGINEERING MANUFACTURING INSTRUCTIONS NO.- 5764	SECTION- 351 PART- 1 & 3 PAGE- 1 CONT'D ON PAGE- 2
Subject: DRIVE SYSTEMS CARD TEST	

1. PURPOSE
   To test the Leg Gate Pulse Amplifier 621L351G1.

2. ELEMENTARY
   Drive Systems data book 1190 Sect. 351 Dwg. 237A4964AA.

3. EQUIPMENT
   a) 115 V AC single phase supply
   b) P28V DC power supply
   c) 2 Variac
   d) 2 Isolation transformers
   e) Oscilloscope
   f) Current probe
   g) DVM
   h) Pulse generator (Data Pulse or equivalent)
   i) Test fixture TL # 270516

4. SET UP

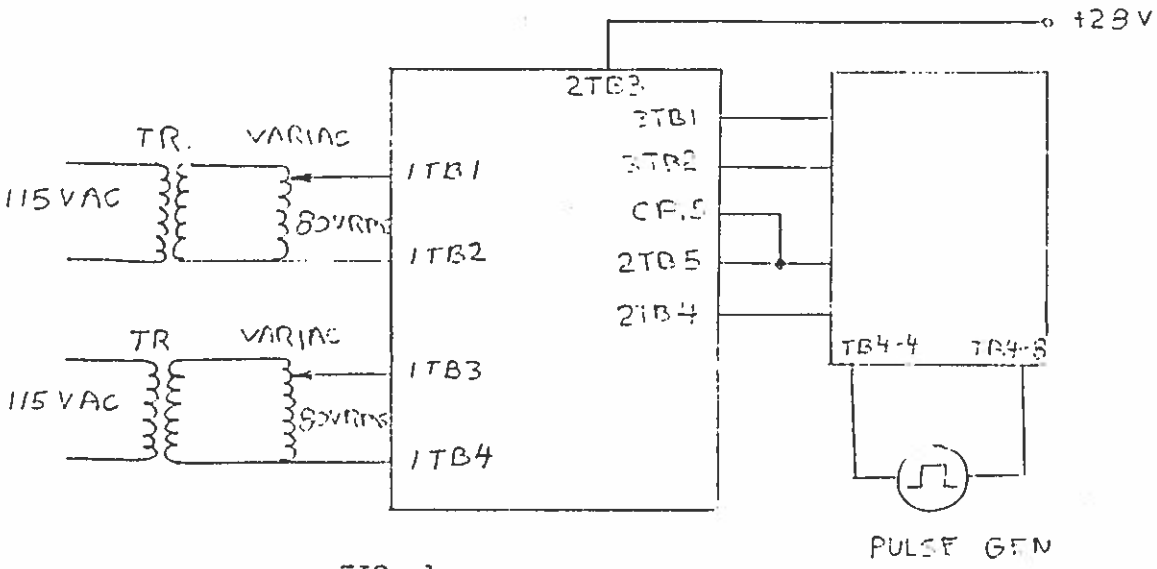


FIG. 1

5. TEST
   a) Power Supply
      1) Check the resistance between 2TB1 and 2TB2 is less than 0.5 ohms (K1 and K2 dropped out).
      2) Power up AC and adjust variacs for an output of 80V RMS.

ROUTE

vision	PREPARED BY	SECTION & UNIT	Type Names:	Signatures:
77-Add'n.	D CLEVLAND	IC 910	Prod. Eng..DC Bowes.....	.....
0278M on	DATE ISSUED	SUPERSEDES DATE	Manuf. Eng. ..PJ Hoes.....	.....
disk 0009M	Sept. 13, 1983	NEW	Q. C. ..RH Hays.....	.....
PW1222-DM	SIGNATURES REQUIRED AS SHOWN --		Eng'g. Lab.	.....

5) TEST a) Power Supply Cont'd.....

3) Make the following voltage checks with respect to GP COM (CP15):
i) CP1 = + 220 ± 22V
ii) CP3 = + 110 ± 11V
iii) CP7 = - 1.7 ± .5V
iv) CP14 = + 18.0 ± .9V

4) Check the resistance between 1TB5 and 1TB6 is less than 0.5 ohms (K1 pulled in).

b) Amplifier

1) Power down AC supply and turn on +28 volt supply.

2) Turn on pulse generator and adjust for FIG. 2.

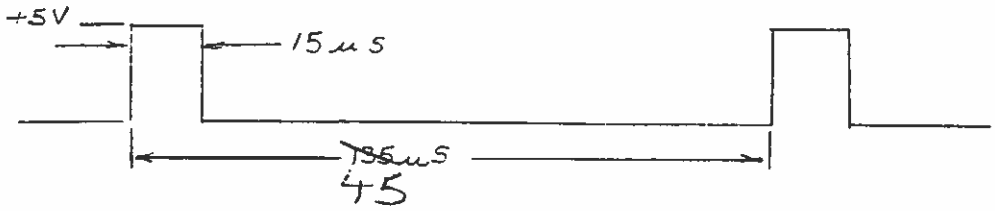


FIG. 2

3) Check the signal at CP2 is as in FIG. 3 (readjust if necessary).

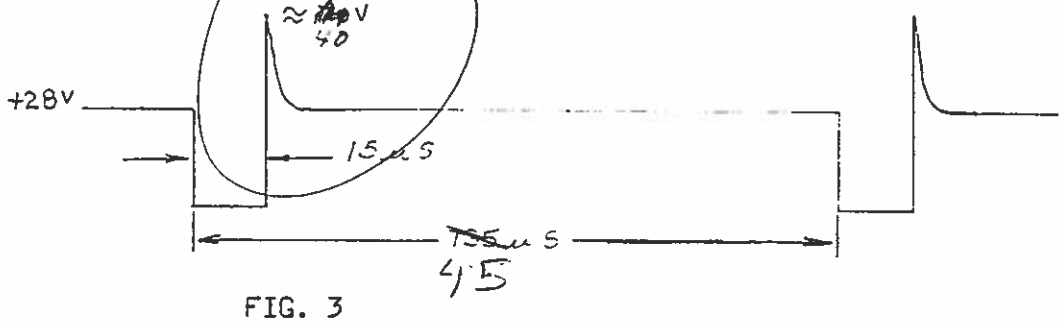


FIG. 3

ROUTE

evision	PREPARED BY	SECTION & UNIT	Type Names:	Signatures:
22-Add'n.	D CLEVELAND	IC 910	Prod. Eng..DC Bowes.....	.....
0278M on	DATE ISSUED	SUPERSEDES DATE	Manuf. Eng. ..PJ Hoes.....	ADVANCE COPY
disk 0009M	Sept. 13, 1983	NEW	Q. C. ..RH Hays.....	SEPT. 1983
PW1222-DM	SIGNATURES REQUIRED AS SHOWN --		Eng'g. Lab.	.....

ENGINEERING MANUFACTURING INSTRUCTIONS NO.- 5764	
Subject: DRIVE SYSTEMS CARD TEST	SECTION- 351 PART- 1 & 3 PAGE- 3 CONT'D ON PAGE- 4

5. TEST b) Amplifier Cont'd.....

4) Connect CH1 of scope to the ~~collector of Q8~~ end of R26 closest to card edge. and CH2 to CP5. Power up the AC and check the signals are as in FIG. 4.

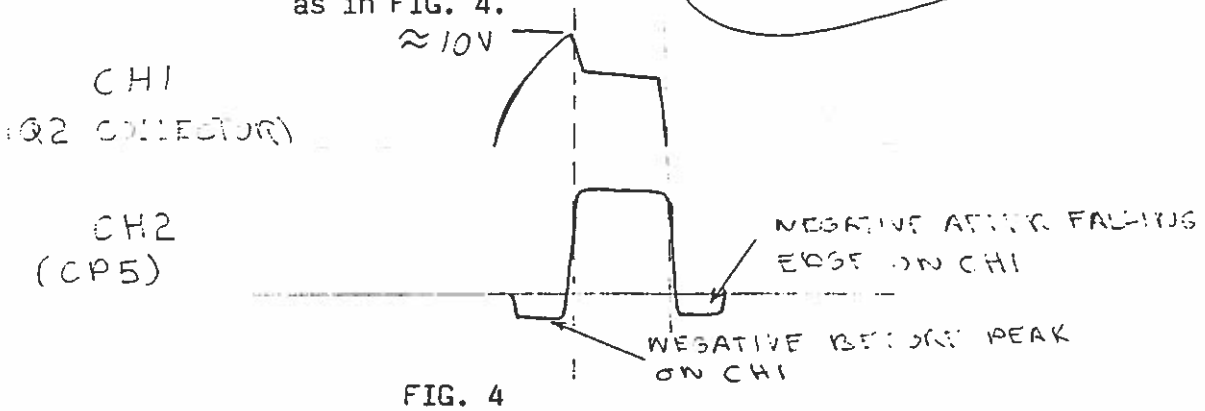


FIG. 4

5) Using the current probe check the waveform at the test loop is as in FIG. 5.

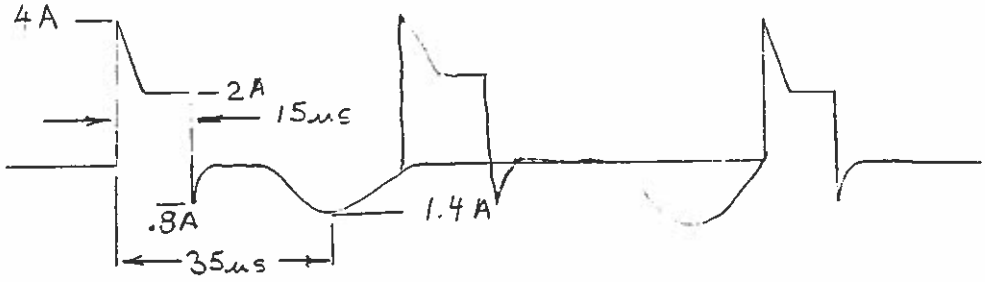


FIG. 5

6) Check LED1 is on.

c) Failed Driver Detector

a) Power down AC & DC supplies and remove generator.

b) Remove load from 3TB1, 3TB2. Resistance between 3TB1 & 2TB2 is infinite

c) Power up AC and note (K1 and K2 are pulled in.)

see opposite page

d) Remove AC Power from 1TB1&2 and note resistance between [illegible] (K1 drops

~~e) Pull CP11 to GP COM C and note K2 drops out.~~

ROUTE

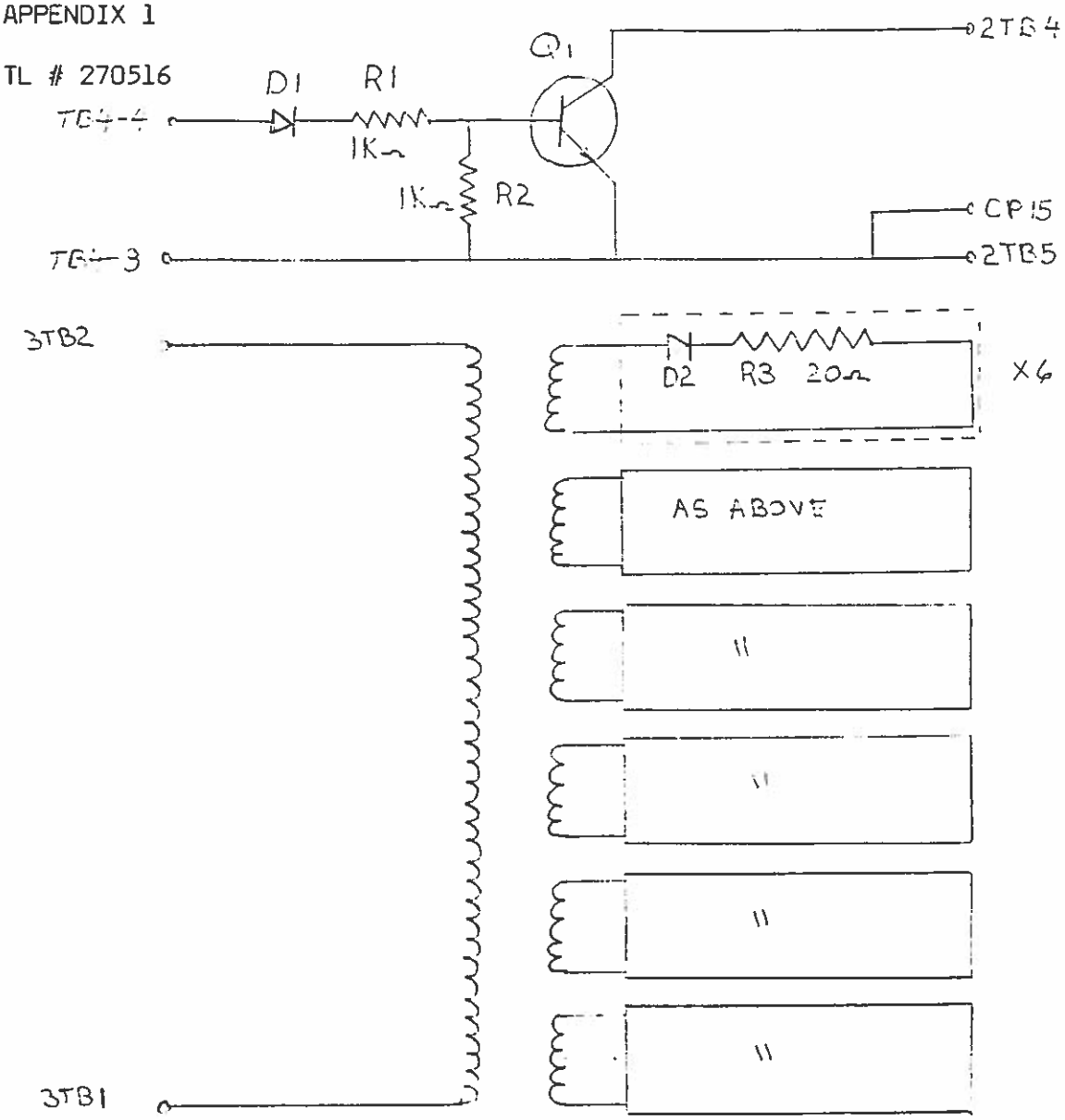
evision	PREPARED BY	SECTION & UNIT	Type Names:	Signatures:
22-Add'n.	D CLEVELAND	IC 910	Prod. Eng..DC Bowes.....	.....
0278M on disk 0009M PW1222-DM	DATE ISSUED	SUPERSEDES DATE	Manuf. Eng..PJ Hoes.....	.....
	Sept. 13, 1983	NEW	Q. C. ..RH Hays.....	.....
	SIGNATURES REQUIRED AS SHOWN --		Eng'g. Lab.	.....

FOR USE OF CGE EMPLOYEES ONL

ENGINEERING MANUFACTURING INSTRUCTIONS NO.- 5764	
Subject: DRIVE SYSTEMS CARD TEST APPENDIX 1	SECTION- 351 PART- 1 & 3 PAGE- 4 CONT'D ON PAGE- F

APPENDIX 1

TL # 270516



ROUTE

D1 1095P2
D2 1095P46
Q1 1065P1

R1R2 1001P49
R3 1034P4
T1 703L0115AAG1

evision	PREPARED BY	SECTION & UNIT	Type Names:	Signatures:
22-Add'n.	D CLEVELAND	IC 910	Prod. Eng..DC Bowes.....	.....
0278M on	DATE ISSUED	SUPERSEDES DATE	Manuf. Eng. ..PJ Hoes.....	SEPT 14/83
disk 0009M	Sept. 13, 1983	NEW	Q. C. ..RH Hays.....	.....
PW1222-DM	SIGNATURES REQUIRED AS SHOWN --		Eng'g. Lab.	.....