

**GLENSOUND  
ELECTRONICS LTD**

**GS-CU008A**

**Single Commentators  
Box**

**PRODUCT DETAILS**

# GLENSOUND ELECTRONICS LTD

---

*GS-CU008A*

*SINGLE COMMENTATORS BOX*

*HANDBOOK CONTENTS*

---

*DATE 20/01/07*

*WP06-370*

*ISSUE No. 1*

---

	<b>DESCRIPTION</b>	<b>DRAWING No</b>
1.	GS-CU008A Panel Views	A2-15856
2.	GS-CU008A Block Diagram	A4-15848
3.	GST97 Mic Input Circuit Diagram	A3-16060
4.	GST98 Limiter & PSU Circuit Diagram	A3-16062
5.	GST99 Headphone & PPM Circuit Diagram	A3-16064
6.	GSU01 PGM Pic Circuit Diagram	A4-16066
7.	GSU01 TB Pic Circuit Diagram	A4-16068
8.	GSU01 Audio Circuit Diagram	A4-16070
9.	GST94 PH PWR Daughter Board	A4-15796
10.	Button Operation Instructions	WP24-73

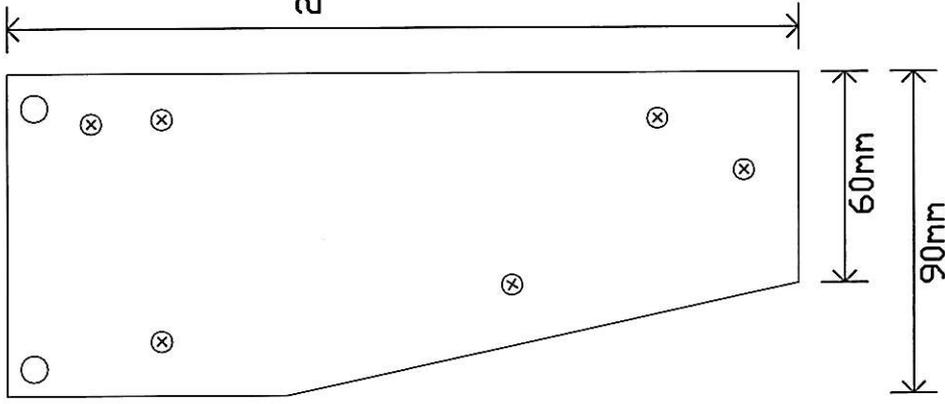
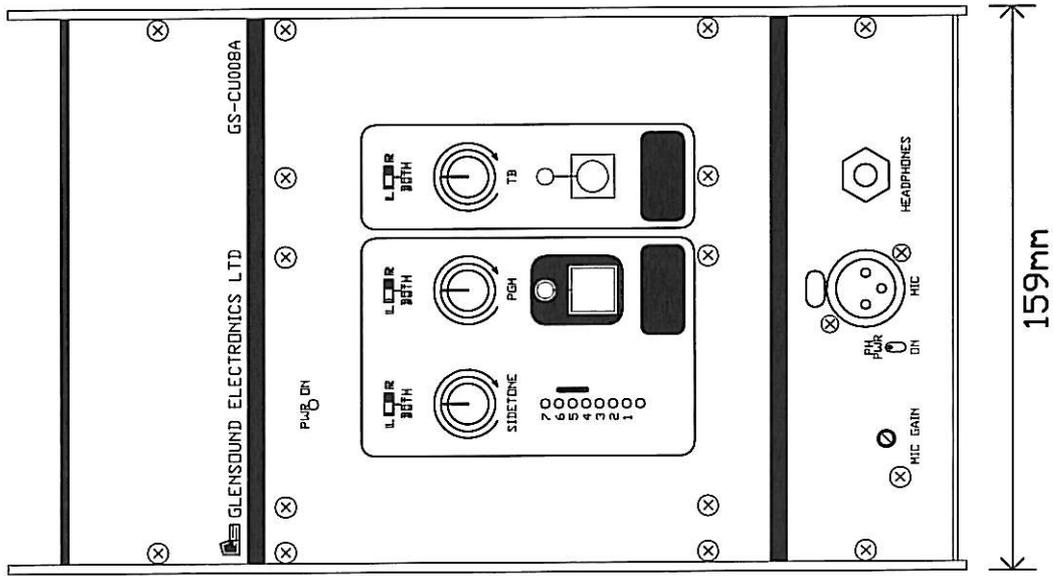


GLENSOUND ELECTRONICS LTD.  
6 BROOKS PLACE, MAIDSTONE, KENT, ME14 1HE, ENGLAND

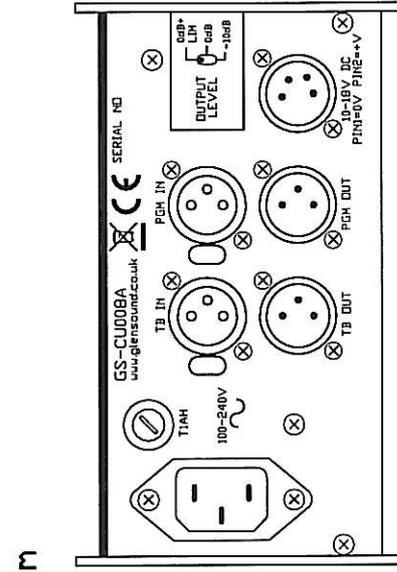
Tel: +44 (0) 1622 753020  
+44 (0) 1622 753662  
Fax: +44 (0) 1622 762330

# PLAN VIEW

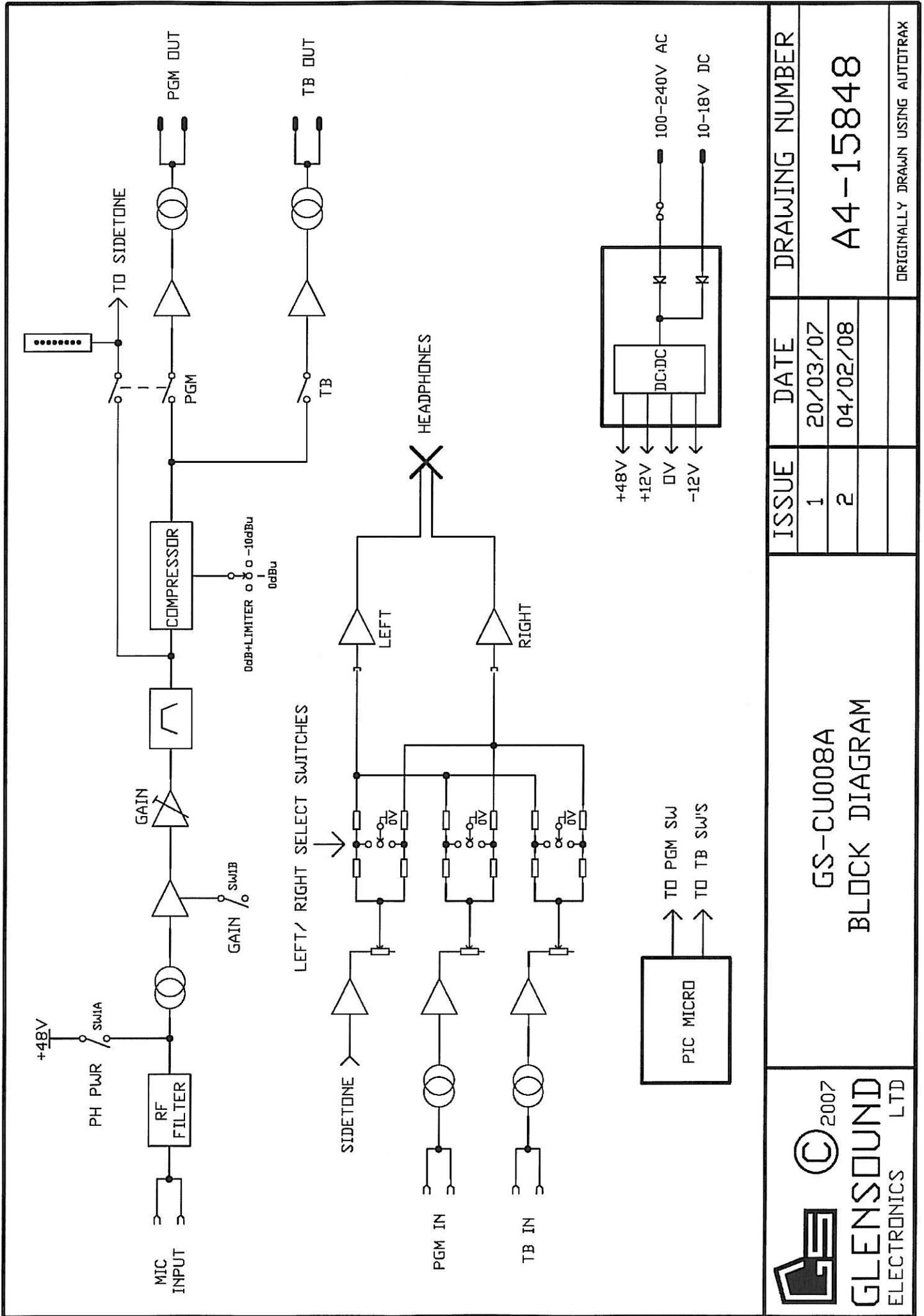
# SIDE VIEW



# REAR VIEW



<b>GLENDSOUND</b> ELECTRONICS LTD	GS-CU008A VIEWS COMMENTATORS BOX		ISSUE 1	DATE 20/03/07	DRAWING NUMBER A2-15856
	© 2007	DRAWN BY ORIGINALLY DRAWN USING AUTOTRAX	1	20/03/07	A2-15856

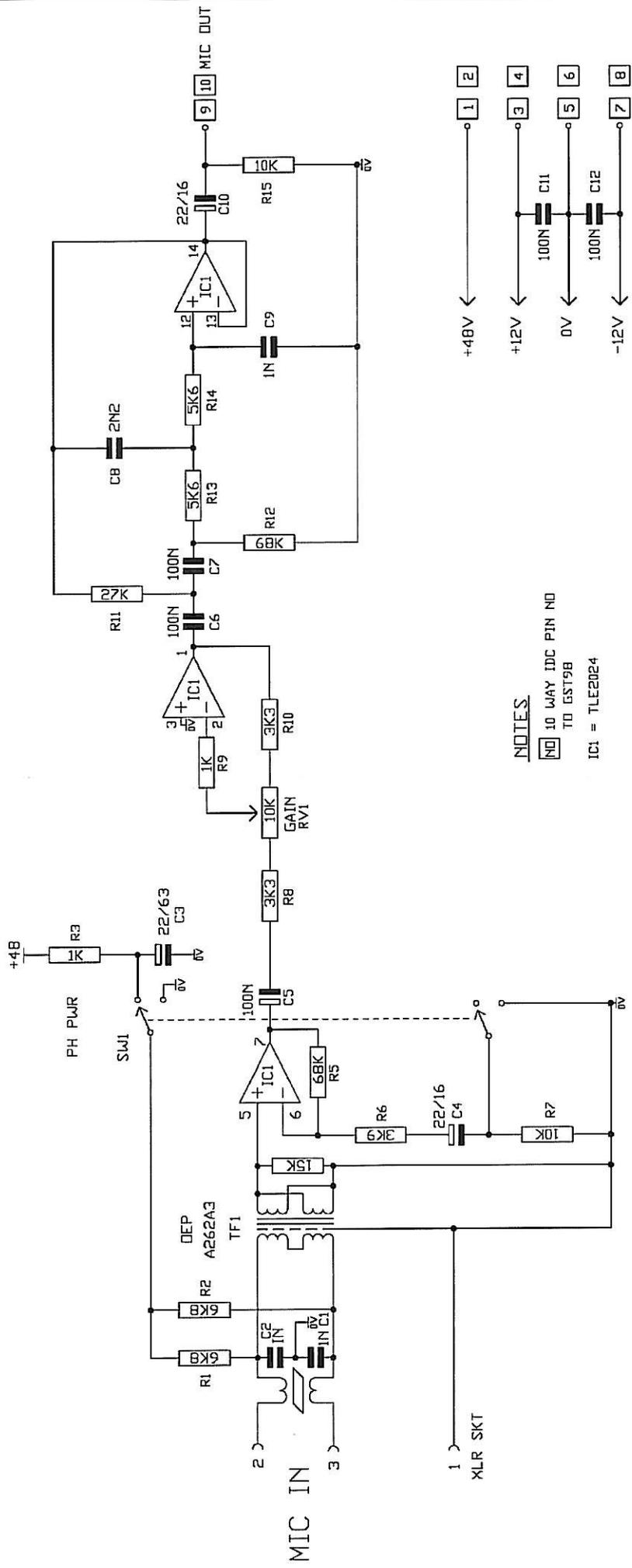


ISSUE	DATE	DRAWING NUMBER
1	20/03/07	A4-15848
2	04/02/08	

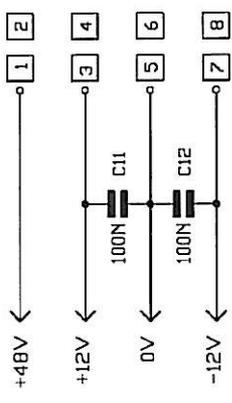
GS-CU008A  
BLOCK DIAGRAM


 © 2007  
**GLENSOUND**  
 ELECTRONICS LTD

ORIGINALLY DRAWN USING AUTOTRAX



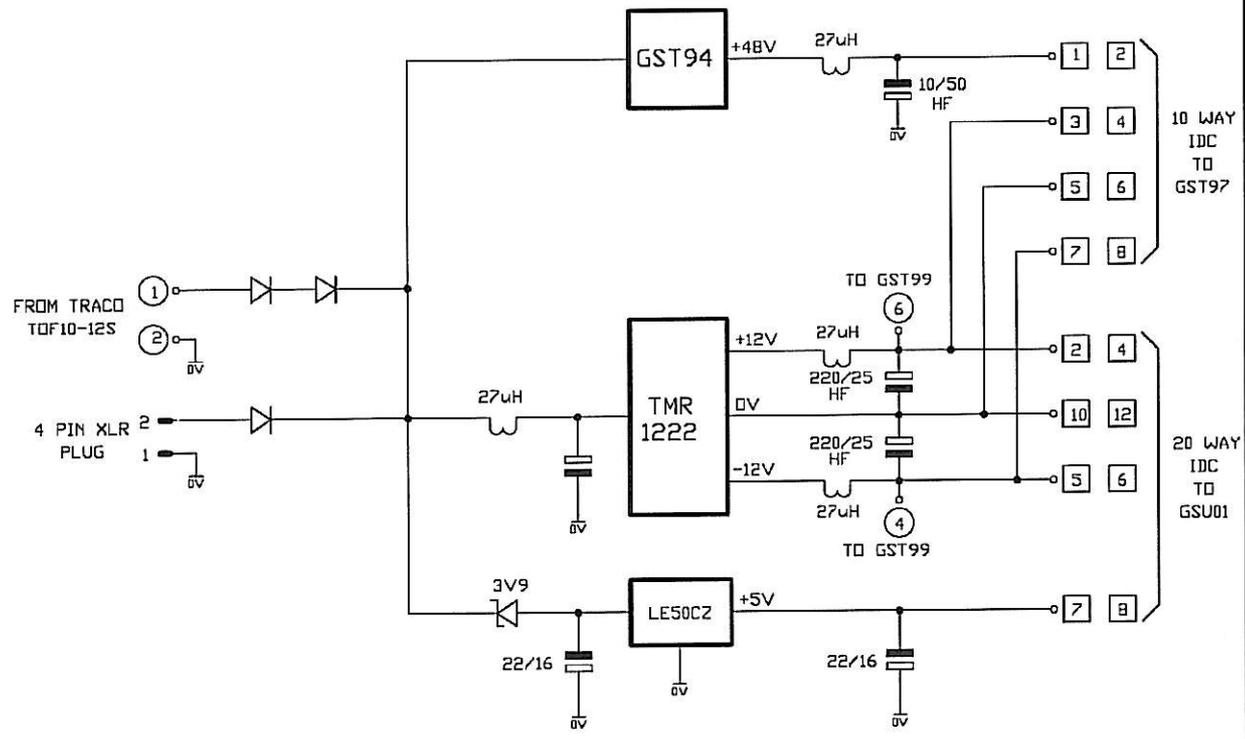
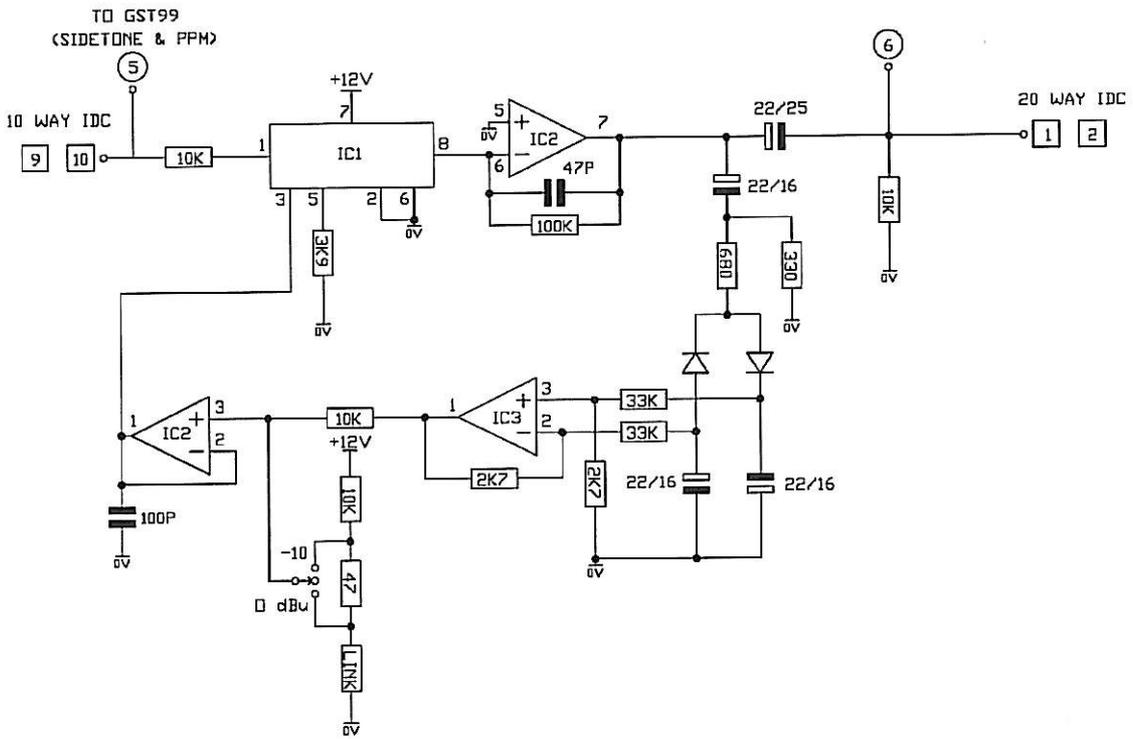
NOTES  
 NO 10 WAY IDC PIN HD TO GST98  
 IC1 = TLE2024



ISSUE	DATE	DRAWING NUMBER
1	26/01/07	A3-16060
2	04/02/08	
		DRAWN BY C JH
		ORIGINALLY DRAWN USING AUTOTRAX

# GST97 MIC INPUT CIRCUIT DIAGRAM

© 2007  
**GLENSOUND** LTD  
 ELECTRONICS



DRAWING NUMBER	A3-16062	
DATE	26/01/07	04/02/08
ISSUE	1	1
DRAWN BY	CJH	
ORIGINALLY DRAWN USING	AUTOTRAX	

# GST98 LIMITER & PSU CIRCUIT DIAGRAM

**NOTES**

ND = 4 WAY HE14 PIN NO

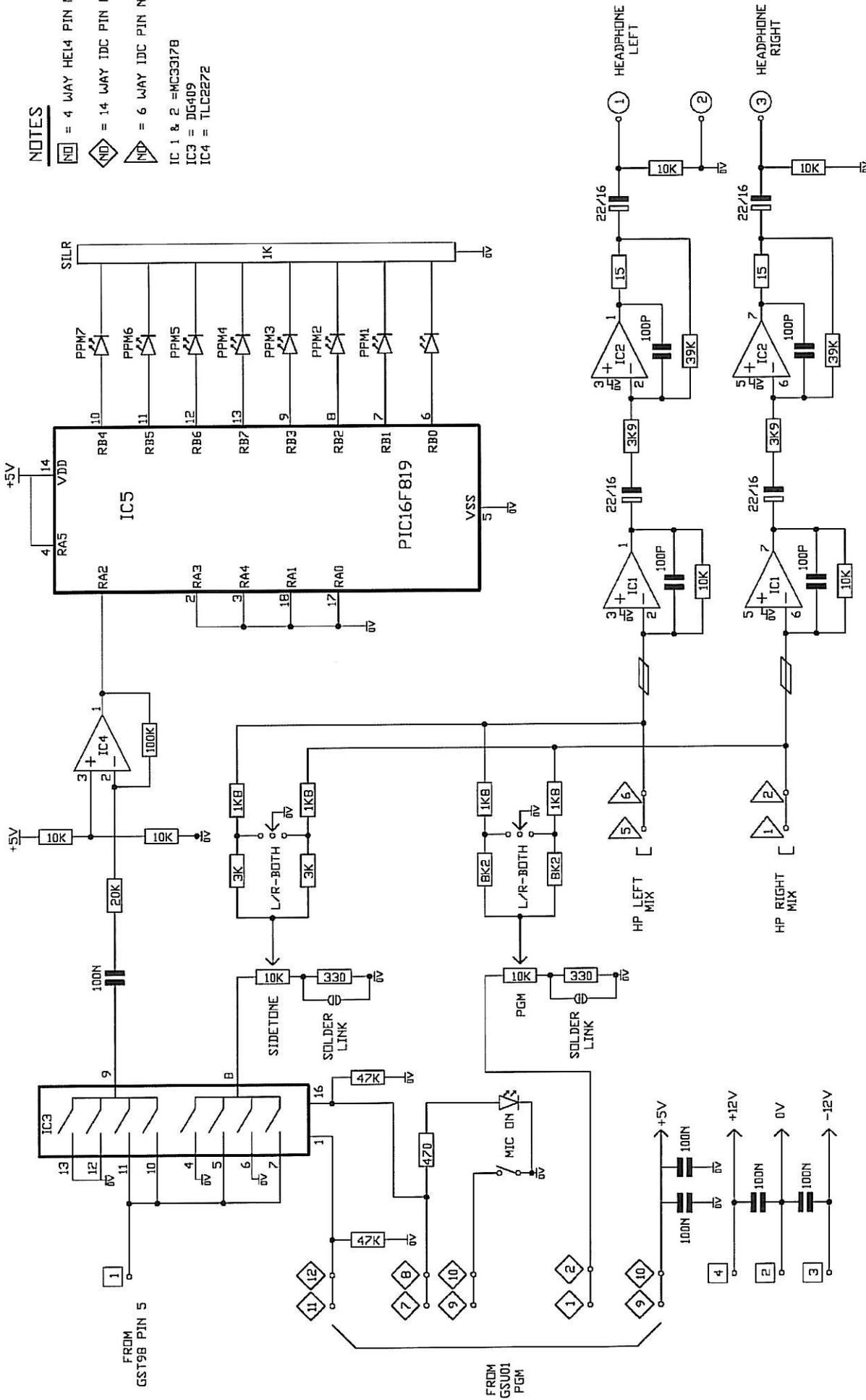
ND = 14 WAY IDC PIN NO

ND = 6 WAY IDC PIN NO

IC 1 & 2 = MC33178

IC3 = DG409

IC4 = TLC2272



ISSUE	DATE	DRAWING NUMBER
1	26/01/07	A3-16064
2	04/02/08	

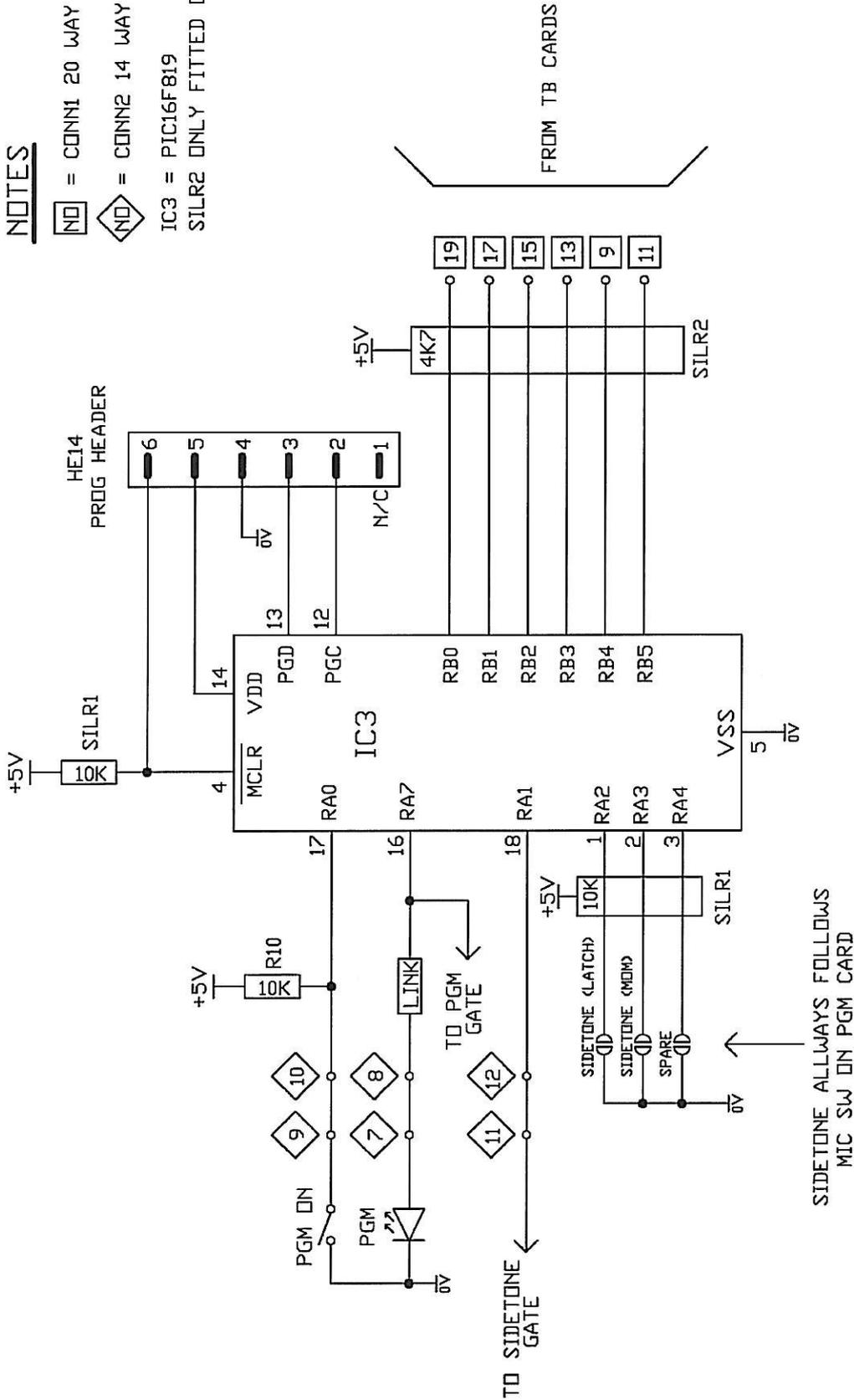
**GST99 HEADPHONE & PPM  
CIRCUIT DIAGRAM**

© 2007  
**GLENSOUND**  
ELECTRONICS LTD

DRAWN BY CJH  
ORIGINALLY DRAWN USING AUTOTRAX

**NOTES**

- ND = CONN1 20 WAY IDC PIN NO
- ND = CONN2 14 WAY IDC PIN NO
- IC3 = PIC16F819
- SILR2 ONLY FITTED ON PGM CARD

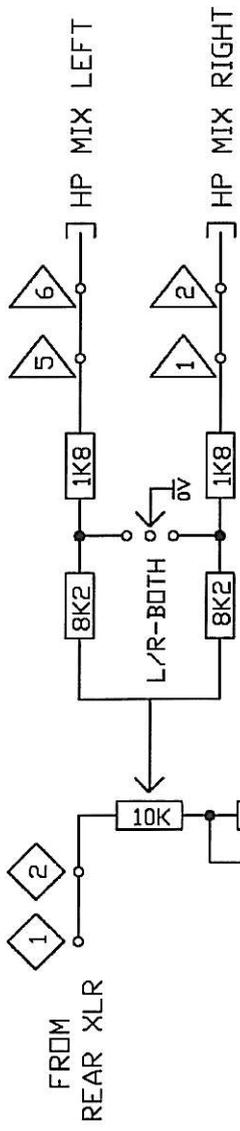


ISSUE	DATE	DRAWING NUMBER
1	24/01/07	A4-16066
1	04/02/08	
ORIGINALLY DRAWN USING AUTOTRAX		

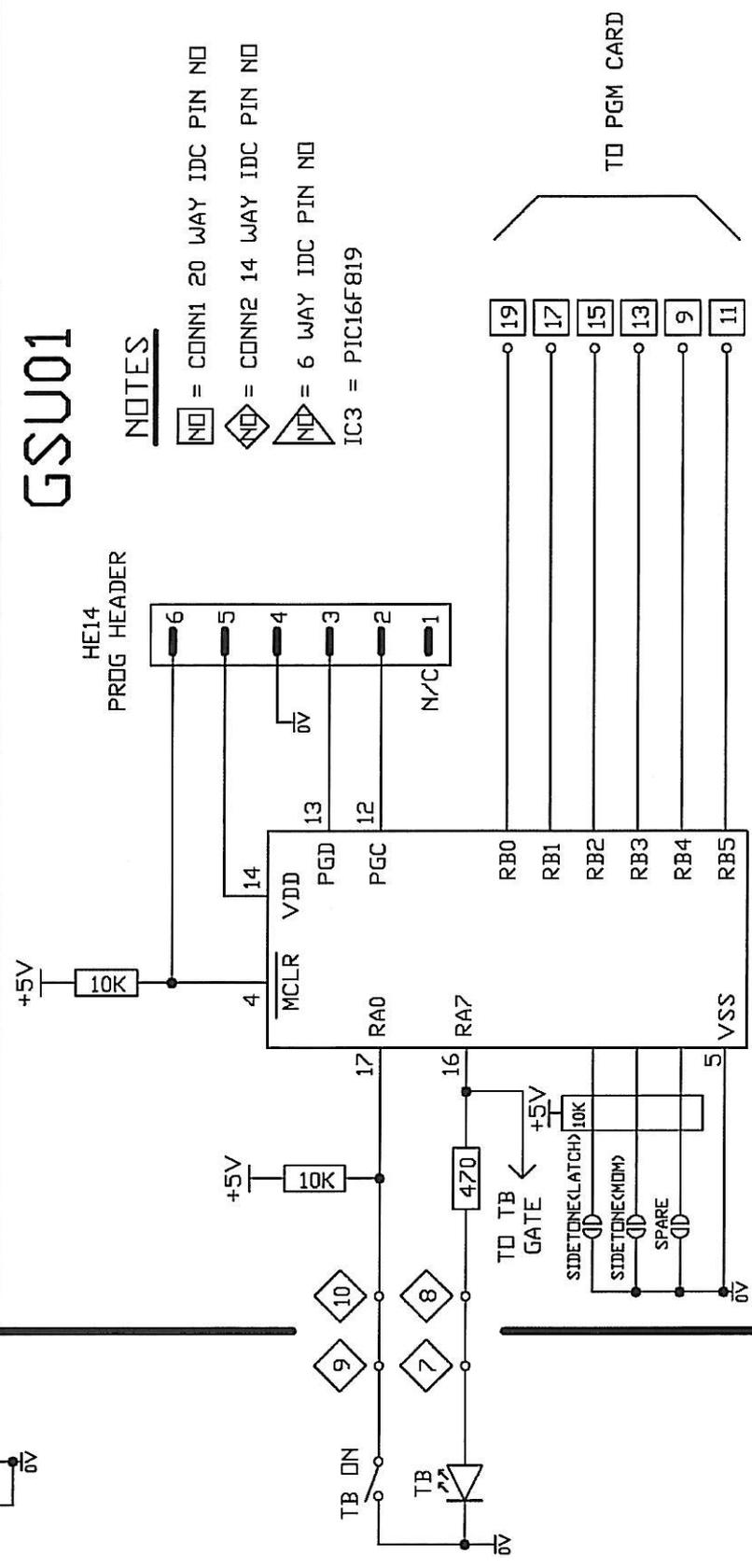
**GSU01 PGM PIC  
CIRCUIT DIAGRAM**


 © 2007  
**GLENSOUND**  
 ELECTRONICS LTD

# GSU02



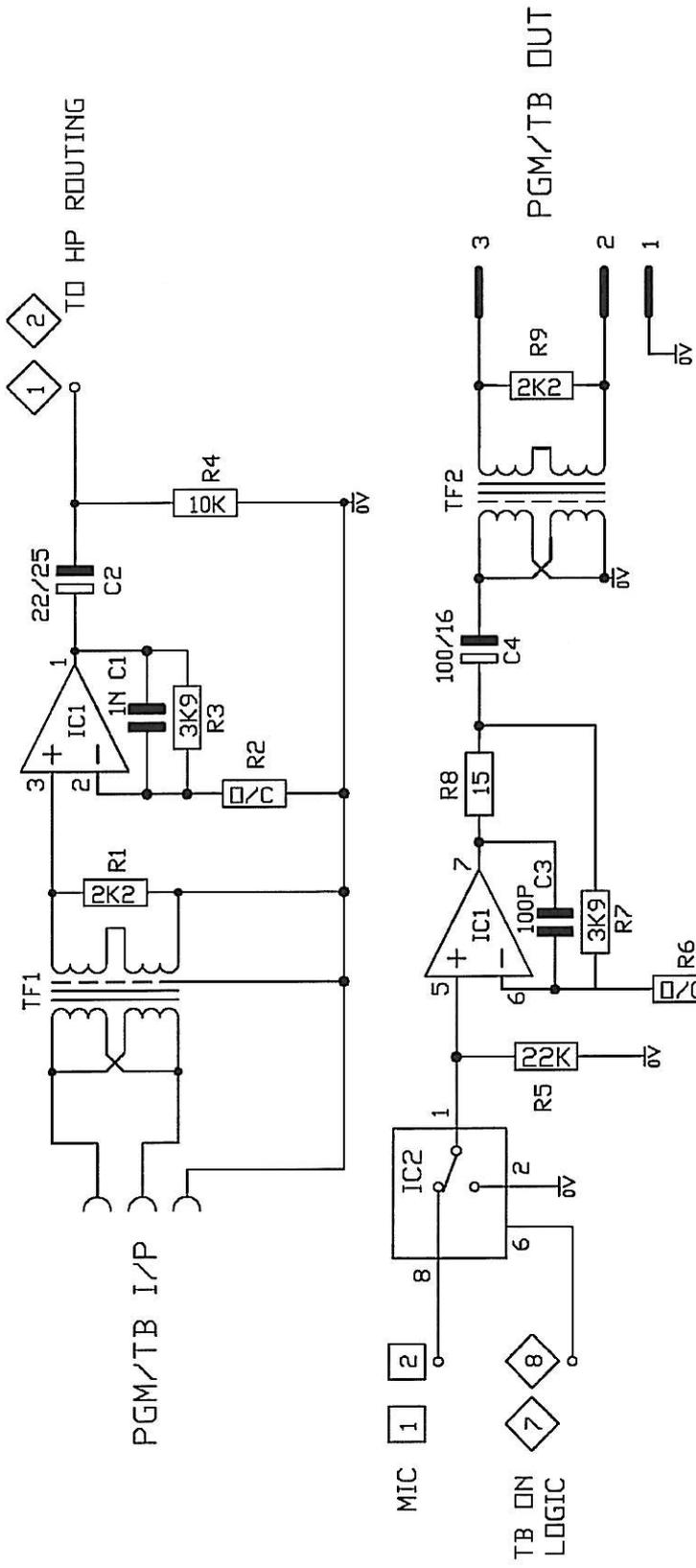
# GSU01



### NOTES

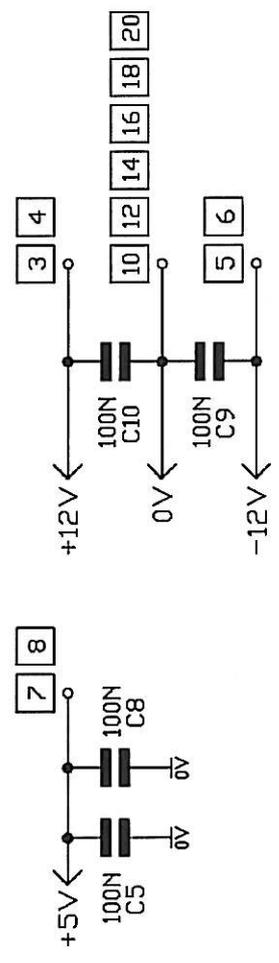
- NO = CONN1 20 WAY IDC PIN NO
- NO = CONN2 14 WAY IDC PIN NO
- NO = 6 WAY IDC PIN NO
- IC3 = PIC16F819

 <b>© 2007</b> <b>GLENSOUND</b> ELECTRONICS LTD		GSU01 TB PIC CIRCUIT DIAGRAM		ISSUE	DATE	DRAWING NUMBER
				1	05/01/07	A4-16068
2	04/02/08					
			ORIGINALLY DRAWN USING AUTOTRAX			

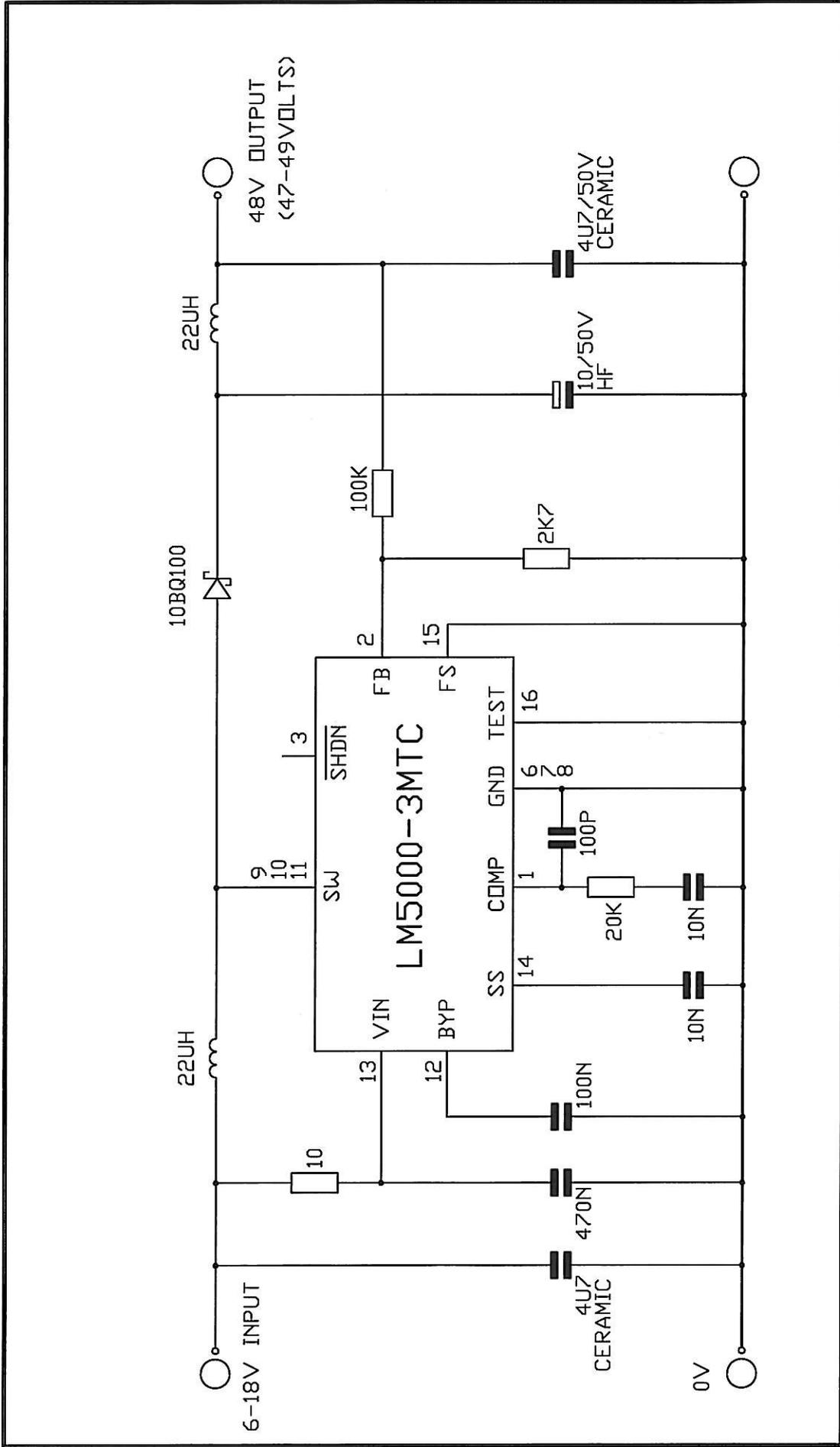


**NOTES**

- ND = CONN1 20 WAY IDC PIN NO
- ND = CONN2 14 WAY IDC PIN
- IC1 = MC33178
- IC2 = DG419
- TF1 = 1+16.45+6.45
- TF2 = 1+12+2



 <b>GLENSOUND</b> ELECTRONICS LTD		<b>GSU01 AUDIO</b> <b>CIRCUIT DIAGRAM</b>		ISSUE	DATE	DRAWING NUMBER
				1	24/01/07	
		1	04/02/08			A4-16070
						ORIGINALLY DRAWN USING AUTOTRAX



 <b>GLENSOUND</b> ELECTRONICS LTD	<b>GST94</b> PH PWR DAUGHTER BOARD CIRCUIT DIAGRAM		ISSUE	DATE	DRAWING NUMBER
	1	18/12/06	1	18/12/06	<b>A4-15796</b> <small>ORIGINALLY DRAWN USING AUTOTRAX</small>
	2	14/01/07	2	14/01/07	
3	17/01/07	3	17/01/07		



## HOW TO CHANGE BUTTON OPERATION ON GS-CU008

The operation of the PGM and TB buttons can be altered to suit individual requirements. Three modes are available for the PGM button, and four for each TB button, as described below. The selected configuration will be stored, and reloaded when the GS-CU008 is next switched on.

To change the operation of the GS-CU008:

1. Turn the GS-CU008 off.
2. Hold down the PGM button.
3. Turn the GS-CU008 on.
4. Release the PGM button.
5. Press and release the PGM button until the desired mode is selected (as indicated by the PGM LED, described below).
6. Press and release each TB button until the desired mode is selected for that channel (as indicated by the TB LED of each talkback channel, described below).
7. Turn the GS-CU008 off.

### PROGRAM modes

The following configuration modes are available for the PGM button:

**1) PROGRAM toggle on/off with talkback override**

Note that PGM will be overridden whenever a talkback channel is active.

Indication of mode during mode change:

- PGM LED will be on continuously.

**2) PROGRAM cough switch**

Program will be active unless the PGM button is held down, or unless a talkback channel is active. Pressing the PGM button will also deactivate any active talkback channels. If all talkback channels are deactivated using the TB buttons (instead of the PGM button), program will remain inactive until the PGM button is pressed again.

Indication of mode during mode change:

- PGM LED will flash with a long duty cycle.

**3) PROGRAM toggle on/off**

Note that PGM output will **not** be affected by any of the talkback channels.

Indication of mode during mode change:

- PGM LED will flash with short duty cycle.



## TALKBACK modes

The following configuration modes are available for each TB channel separately:

1) **TALKBACK momentary**

A talkback channel in this mode will only be active while the TB button is held down. Program will be temporarily disabled while the TB button is held. The operation of other talkback channels will **not** be affected.

Indication of mode during mode change:

- TB LED will flash with a short duty cycle.

2) **TALKBACK toggle on/off**

Program will be deactivated when a talkback channel in this mode is activated. The operation of other talkback channels will **not** be affected. Pressing the PGM button will deactivate all talkback channels in this mode.

Indication of mode during mode change:

- TB LED will flash with a long duty cycle.

3) **TALKBACK toggle on/off, with override**

Same as above, except that all other talkback channels will be deactivated when a talkback channel in this mode is activated.

Indication of mode during mode change:

- TB LED will be on continuously.

4) **TALKBACK toggle on/off solo**

The operation of program and other talkback channels will **not** be affected and will not affect this channel when in this mode.

Indication of mode during mode change:

- TB LED will double flash with a long duty cycle.