

## SKILL FLIGHT

**MANUAL** 



#### SKILL - FLIGHT + (Wall

Durchführung des SELBSTTESTS und Auslesen der Buchhaltungsdaten.

Der schwarze Knopf auf der Innenseite der Kassentür dient zum Weiterschalten in die nächsten Teststufen.

Der <u>rote</u> Knopf ist zum <u>Löschen</u> der einzelnen Spieleinstellungen und der Buchhaltungsdaten.

Mit der Kredittaste können die Werte neu eingestellt werden.

Fun	ktio	on:		TESTSTU	FE	(Anzeige auf dem BALL IN PLAY Display)
1 2 3 4 5	x	drücken drücken drücken drücken drücken	=	Display-Test Spulentest Soundmodultest	- - - 0 =	Spulen-Nr. in Spieler Displays alle Kontakte offen
6 7 8 9		drücken drücken drücken drücken	=	<ol> <li>FREISPIEL</li> <li>FREISPIEL</li> <li>FREISPIEL</li> <li>Tages-High Score</li> </ol>	01 02 03 04	
10 11 12 13 14 15 16 17 18 19 20	x x x x	drücken drücken drücken		Freispiele Freispiele in %n wie oft Tages-High Score übertroffen 1,- DM Einwurf 5,- DM Einwurf 2,- DM Einwurf Anzahl der erreichten SPECIALS	05 06 07 08 09 10 11 12 13 14	
21	x	drücken	÷	Einstellung Freispiel/Freikugel bei "SPECIAL"	16	03 = Freispiel 02 = Extra Ball 01 = 50.000 Punkte 00 = keine Funktion
22	х	drücken	=	bei Überschreiten "HIGH SCORE"	17	03 = Freispiel 02 = Extra Ball 01 = 25.000 Punkte 00 = keine Funktion
				In Verbindung mit den Testschritte 16 und 17 ist DIP SW 29 auf ON zu stellen, damit mehr als 1 Repla gewährt wird.		180 = ·
23 24	x x	drücken drücken	=	Soundeinstellung Anzahl d. Freispiele bei Erreichen des High Scores		O1 = Musik and Africa Made  O3 = 3 Freispiele  O2 = 2 Freispiele  O1 = 1 Freispiel
25	х	drücken	≕ .	Rückstellung in Normalspiel (Einschalttest)	-	00 = kein Freispiel

Bitte denken Sie daran, daß die Spielfeldneigung mindestens 6° sein soll. Sind die Beinschrauben angezogen? Ist die Kugel-Tiltvorrichtung optimal eingestellt? Ist der Münzeinwurf geprüft?

Einstellmöglichkeiten am Flipper

"S K I L L F L I G H T"

mit Hilfe der DIP Schalter 1 - 32

Schalter Nr.	Normal- einstell.	
1 2 3 4 5	OFF ) OFF ) OFF )	1, - DM Einwurf (links)  Hier: 1, -DM = 1 Kredit  Andere Kredite siehe Anlage "Game Adjustmen
6	off	Special linke + rechte Kugelauslaufbahn Beleuchtet nachdem "Landing Benus Special" gegeben wurde
		ON: Zur gleichen Zeit, wie "Landing Bonus Special" beleuchtet
7	ON	One Million Target Wird im 3. Ball kurz beleuchtet OFF: Wird nicht gegeben
8	OFF	Landing Bonus Special  Beleuchtet nach 39.000 Bonuspunkten. Rücksprung auf 20.000 Bonuspunkte. Beim nochmaligen Erreichen von 39.000 Bonus punkten wird 1 Special gegeben.  ON: Special wird mit Erreichen von 30.000
		ON: Special wird mit Erreichen von 39.000 Bonuspunkten gegeben.
9 10 11 12 13	OFF ) OFF ) OFF )	2,- DM Einwurf (rechts)  Hier: 2,-DM = 3 Kredite  Andere Kredite siehe Anlage "Game Adjustmen"
1.4	ON	Looping Bonus Zählt bis 23.000 Bonuspunkte (12 K + 11 K) OFF: Zählt bis 12.000 Bonuspunkte
15	OFF	Helikopter Target  Start mit beleuchtetem 15 K Licht  ON: Start bei 0
16	ON	Game over Verhalten  Licht- und Sound-Effekte  OFF: Keine Effekte
17 18 19 20	OFF ) OFF ) OF )	5 DM Einwurf (mitte)  Nier: 5,-DM = 10 Kredite  Andere Kredite siehe Anlage "Game Adjustmen
21	off	Looping Multiplier Wird nicht für den nächsten Ball gespeicher

ON: Wird gespeichert

Schalter Nr.	Normal- einstell.	
22	ON	Runway Rampen Memory
		Die Bereitschaft, die Kugeln zu halten, wird für den nächsten Ball gespeichert.
		OFF: Wird nicht gespeichert.
23	ON	Memory der 3 roten + 3 blauen Targets
		Beleuchtete Targets werden für den nächsten Ball gespeichert.
		OFF: Werden nicht gespeichert.
24	ON	Ruhezeit der 1. Kugel in einem der Runway-Löcher
		Kugel wird nach ca. 30 Sek. ausgeworfen, wenn keine 2. Kugel deponiert wurde. Auf der Kredit- anzeige findet währenddessen ein blinkender "Count Down" von 10 bis 0 statt.
		OFF: Kugel bleibt bis Spielende im Runway-Loch liegen, wenn keine 2. Kugel deponiert wurd
25	ON )	Maximale Kredite
26	on )	Hier: 40
		OFF ) = 10 ON ) = 15 OFF ) = 25
27	ON	Kreditanzeige
		Kredit wird angezeigt.
		OFF: Wird nicht angezeigt.
28	ON	Match
		Match ein.
		OFF: Match aus.
29	ON	Freispiele pro Spiel
		Alle Freispiele werden gegeben. OFF: Nur 1 Freispiel pro Spiel.
		and the state of t
30	ON	Looping Bonus Feature  Bonus wird gegeben.
		OFF: Wird nicht gegeben.
	~ m m 1	mana/loserinda intitipolitati
31 32	OFF ) OFF )	Kugeln pro Spiel Hier: 3 Kugeln
		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
\$\$ \$#	· **********	****************************
□ □ □	. 14 T	HTIGER HINWEIS
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S

Das Spiel kann nur gestartet werden, wenn sich alle 3 Kugeln in der Outhole-Kugelrinne befinden !!!

#### GAME ADJUSTMENTS

#### A. Back Box Game Adjustments:

Each game has thirty-two switches located on A4, the MPU module, located in the back box, that allow play to be customized to the location. Credits per coin, credit display, and baser per game, are selectable by means of the switches. The switches are contained in four-sixteen lead packages numbered S1-8; S9-16, S17-24, and S25-32 for easy identification. The "ON" toggle position is marked on the assembly. Turn off power before making adjustments.

#### Credits/Coin Adjustments:

The credits per coin are selectable by means of S17-S20 for coin chute #2 (Center). The switch settings and resultant credits/coin are as follows:

\$20	S19	S18	S17	Credits/Coin	520	\$19	S18	<b>S17</b>	Credits/Coin
OFF	OFF	OFF	OFF	Same as Coin Chute #1 Settings	ON	OFF	OFF	OFF	8/1 Coin
OFF	OFF	OFF	ÖN	1/1 Coin	ON	OFF	OFF	ON	9/1 Coin
OFF	OFF	ON	OFF	2/1 Coin	ON	OFF	ON	OFF	10/1 Coin
OFF	OFF	ON	ON	3/1 Coin	ON	OFF	ON	ON .	11/1 Coin
OFF	ON	OFF	OFF	4/1 Coin	ON	ON	OFF	OFF	12/1 Coin
OFF	ON	OFF	ON	5/1 Coin	ON	ON	OFF	ON	13/1 Coin
OFF	ON	ON	OFF	6/1 Coin	ON	ON	ON	OFF	14/1 Coin
OFF	ON	ON	ON	7/1 Coin	ON	ON	ON	ON	15/1 Coin

The credits given are selectable by means of switches 1-5 incl., for coin chute #1 and switches 9-13 incl., for coin chute #3. Thirty-one different credit ratios are available for each coin chute. The switch settings and resultant credits/coin are listed below.

#### CREDITS/COIN ADJUSTMENTS

					U	IEDIT 3/ COII4	A20001 MEN				TOTA
COIN CHUTE		5	SWITC			CREDITS	CREDITS	CREDITS	CREDITS C	REDITS	CREDITS
# : (HINGE SIDE)	5	4	3	2	1						
OR #3	13	12	11	10	9	_					
(FIIGHT SIDE)	OFF	OFF	OFF	OFF	OFF	1/1 Coin					
	OFF	OFF	OFF	OFF	ON	2/1 Coin					
	OFF	OFF	OFF	ON	OFF	3/1 Coin					
	OFF	OFF	OFF	QΝ	ОN	4/1 Coin					
	OFF	OFF	ON	OFF	OFF	5/1 Coin					
	OFF	OFF	ОN	OFF	ΟN	6/1 Coin					
	OFF	OFF	ON	ОN	OFF	7/1 Coin					
	OFF	OFF	ON	ON	ON	8/1 Coin					
	OFF	ON	OFF	OFF	OFF	9/1 Coin					
	OFF	ON	OFF	OFF	ON	12/1 Coin					
	OFF	ON	OFF	ON	OFF	- 14/1 Coin .					
	OFF	ON	OFF	ON	QN	1/2 Coins*					
	OFF	ON	ON	OFF	OFF	2/2 Coins*					
	OFF	ON	ON	OFF	ON	3/2 Coins*					
	OFF	ON	ON	ON	OFF	4/2 Coins					
	OFF	ON	ON	ON	ON	5/2 Coins*					
	ON	OFF	OFF	OFF	OFF	6/2 Coins*					
	ON	OFF	OFF	OFF	ON	7/2 Coins*					
	ON	OFF	ÖFF	ŌN	OFF	8/2 Coins*					
	ON	OFF	OFF	ON	ON	9/2 Coins*					
	ON	OFF	ON	OFF	OFF	12/2 Coins*					
	ON	OFF	ON	OFF	ON	14/2 Coins*					
	ON	OFF	ON	ON	OFF	1/1st Coin	2/2nd Cain				3/2
	ON	OFF	ON	ON	ON	0/1st Coin*	1/2nd Coin	1/3rd Coin	1/4th Coin		3/4
	ON.	ON	OFF	OFF	OFF	0/1st Coin*	1/2nd Coin	0/3rd Coin**	2/4th Coin		3/4
	ON	ON	OFF		ON	1/1st Coin	1/2nd Coin	1/3rd Coin	2/4th Coin		5/4
•	ON	ON	ÖFF	ON	OFF	1/1st Coin	2/2nd Coin	1/3rd Coin	3/4th Coin		7/4
•	ON	ON	OFF	ON	ON	1/1st Coin	2/2nd Coin	2/3rd Coin	2/4th Coin		7/4
	ON	ON	ON	OFF		0/1st Coin***	0/2nd Coin***	1/3rd Coin			1/3
	ON	ON	ON	OFF	ON	0/1st Coin**	0/2nd Coin**	0/3rd Coin**	1/4th Coin		1/4
	ON	ON	ON	ON	OFF	0/1st Coin****	0/2nd Coin****	0/3rd Coin****	0/4th Coin***	<ul> <li>1/5th Coin</li> </ul>	1/5
	ON	ON	ON	ON	ON	0/1st Coin***	0/2nd Coin***	1/3rd Coin	0/4th Coin***	<ul> <li>1/5th Coin</li> </ul>	2/5

Two Credits until 2nd coin is dropped

<sup>&</sup>quot;No Credits until 4th coin is dropped.

<sup>&</sup>quot;TNo Credits until 3rd coin is dropped.

<sup>&</sup>quot;The Creaks until 5th cain is dropped.

LANDING SPECIAL

SW 8

LIBERAL SPECIAL 39.000 points + one target

ON

CONSERVATIVE SPECIAL lit at 39.000 point but

the player win after ather 39.000

OFF -

(Bonus second time start with 20.000 lit)

LANDING SPECIAL ADVANCE WITH:

RED TARGETS

BLUE TARGETS

EXTRA BALL HOLE

HELICOPTER TARGET

LANDING MULTIPLIER ADVANCE WITH

EXTRA BALL HOLE

SPECIAL OUTLANE

SW 6

LIBERAL lit with landing special

ON

CONSERVATIVE lit after landing special

OFF

LOOPING BONUS

SW 14

LIBERAL arrive at 23.000

ON -

CONSERVATIVE arrive at 12.000

OFF

LOOPING BONUS ADVANCE WITH

THE TWO

STARS ON TOP

LOOPING MULTIPLIER ADVANCE

WHEN YOU PUSH THE TWO STARS

LOOPING BONUS

SW 30

LIBERAL give the points when the ball go in hole

ON

CONSERVATIVE don't give the points

OFF

GAME OVER ATTRACT ADJUSTMENT

SW 16.

SOUND AND LIGHT

YES

ON

NO

OFF

LOOPING MULTIPLIER	SW 21
LIBERAL rest in memory for the next ball	ON
CONSERVATIVE start again	OFF =
HELICOPTER TARGET	SW 15
CONSERVATIVE start to 0	ON .
LIBERAL start to 15K Life	OFF -
3 RED TARGETS AND 3 BLUE TARGETS	\$W 23
LIBERAL the targets lites rest in memory for next ball	ON
CONSERVATIVE don't rest in memory	OFF
NUMBER OF GAMES REPLAYS PER GAME ADJUSTMENT	SW 29
LIBERAL all replay earned will be collected	ON
CONSERVATIVE only 1 replay per player per game	OFF -
QUALIFY RAMP FOR CAPTURE REST IN MEMORY FOR NEXT BALL	SW 22
YES	ON -
NO .	OFF
ONE MILLION TARGET (IS CAMING 3° BALL ONLY)	SW 7
YES LIBERAL	ON
NO CONSERVATIVE	OFF

#### IMPORTANT

FOR START THE GAME THE 3 BALLS MUST BE IN OUTHOLE

SW24 Times Re- - We y OM - 8-

#### SOLENOID DRIVER LOCATION

TRANSISTOR	DESCRIPTION	JACK	PIN NO	TEST NUMBER
4	2° OUT HOLE	PL 1	2	
. 3	KNOCKER	CAB	3	01 02
.9	BUMPER LEFT	PL 2	6	03
10	BUMPER RIGHT	PL 2	11	04
12	BUMPER DOWN	PL 2	12	05
11	SLING SHOOT LEFT	PL 2	13	06
16	" " RIGHT	PL 2	14	07
5	SAUCER	PL 1	5	. 08
2	1° OUT HOLE	PL 1	8	09
8	RAMP LEFT	PL 2	5	10
13	RAMP RIGHT	PL 2	3	11
14	ONE MILLION DROP	PL 2	2	12
4.5	TARGET			
18	GATE	PL 2	15	13
15	RELE'		***************************************	14

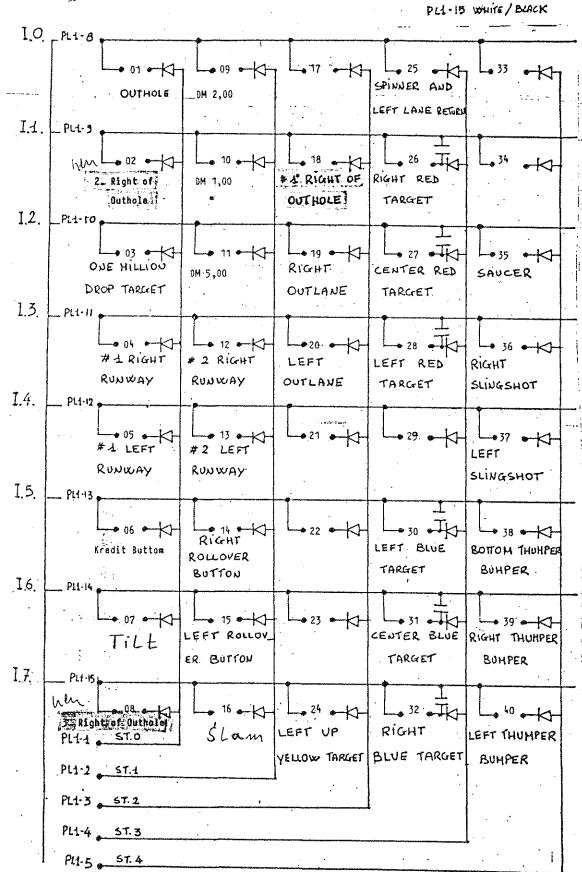
#### LAMP DRIVER LOCATION

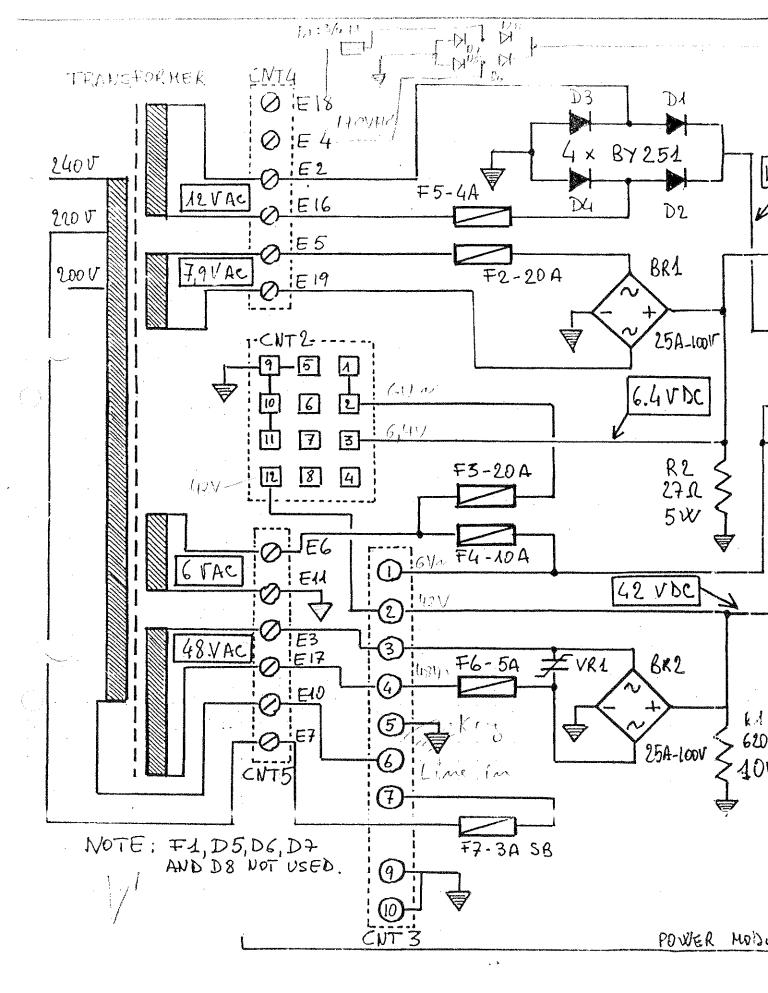
SCR	DESCRIPTION
13	1K LANDING BONUS
28	2K " "
43	3K " " "
58	4K " "
14	5K " "
29	6K " "
44	7K " "
59	8K " "
15	9K " "
30	10K " "
45	20K " "
61	30K " "
60	SPECIAL LANDING BONUS
53	FLIGHT AGAIN
71	OUTLINE SPECIAL LEFT
56	OUTLINE SPECIAL RIGHT
22	BLUE TARGET RIGHT
21	BLUE TARGET CENTER
36	BLUE TARGET RIGHT
34	RED TARGET RIGHT
49	RED TARGET CENTER
64	RED TARGET LEFT
72	EXTRA BALL
57	BUMPER LEFT
42	BUMPER RIGHT
27	BUMPER CENTER

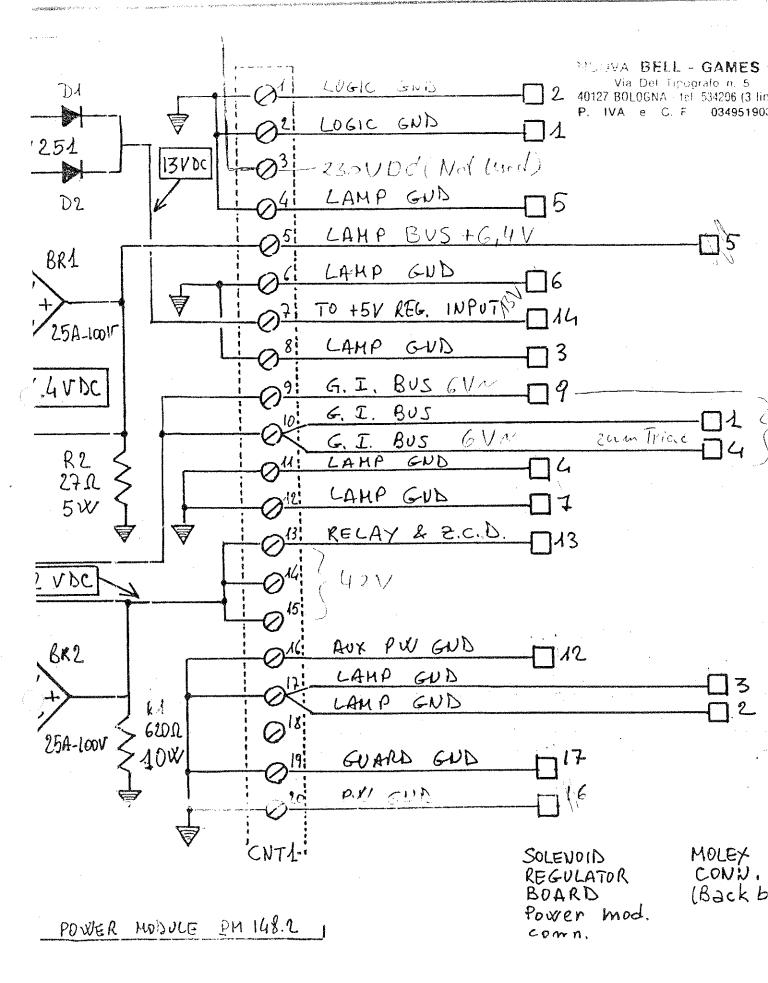
SCR	DESCRIPTION
18	15K HELICOPTER TARGET
33	30K " "
48	50K 11 11
66	65K " "
51	95K " "
63	SPECIAL HELICOPTER TARGET
17	X 2 LOOPING MULTIPLIER
32	Х 3 " "
47	X 4 " "
62	X 5 " "
1	1K LOOPING BONUS
4	2K " "
7	3K " , "
10	4K " "
2	5K " "
5	6K " "
8	7K " "
11	8K " "
3	9K " " "
6	10K " "
9	11K 0 0
12	12K " "
16	X 2 LANDING MULTIPLIER
31	Х 3 "
46	X 4 - , H
50	4 COVERS RED ON PALYFIELD
69	HELICOPTER MOTOR
41	TOP ILLUMINATION PLAYFIELD
38	SKILL BACKGLASS
25	LIGHT ON TOP CABINET
26	2 LIGHT ON FRONT BACKGLASS
40	FLIGHT BACKGLASS
39	ONE MILLION TARGET

- 10 -

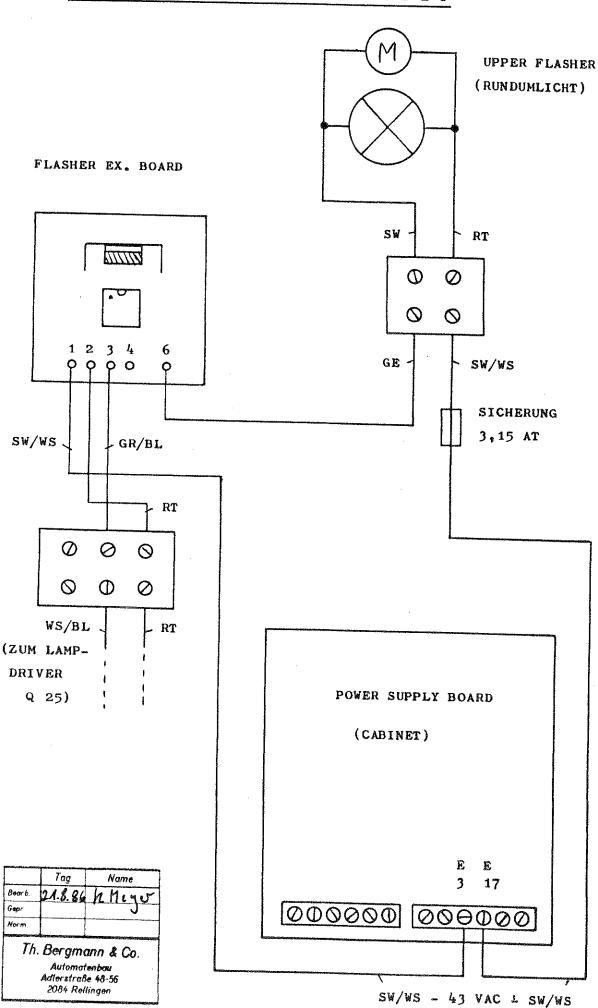
PLI-1 WHITE/RED PLI-4 WHITE/YELLOW PLI-9 YELLOW/BROWN PLI-12 BROWN/RED
PLI-2 ORANGE PLI-5 YELLOW/RED -10 GRAY/BLACK PLI-13 BROWN/RED
PLI-3 GRAY/YELLOW PLI-8 PINK/ORANGE PLI-14 ORANGE/BLACK PLI-14 GRAY/RED
PLI-15 WHITE/BLACK

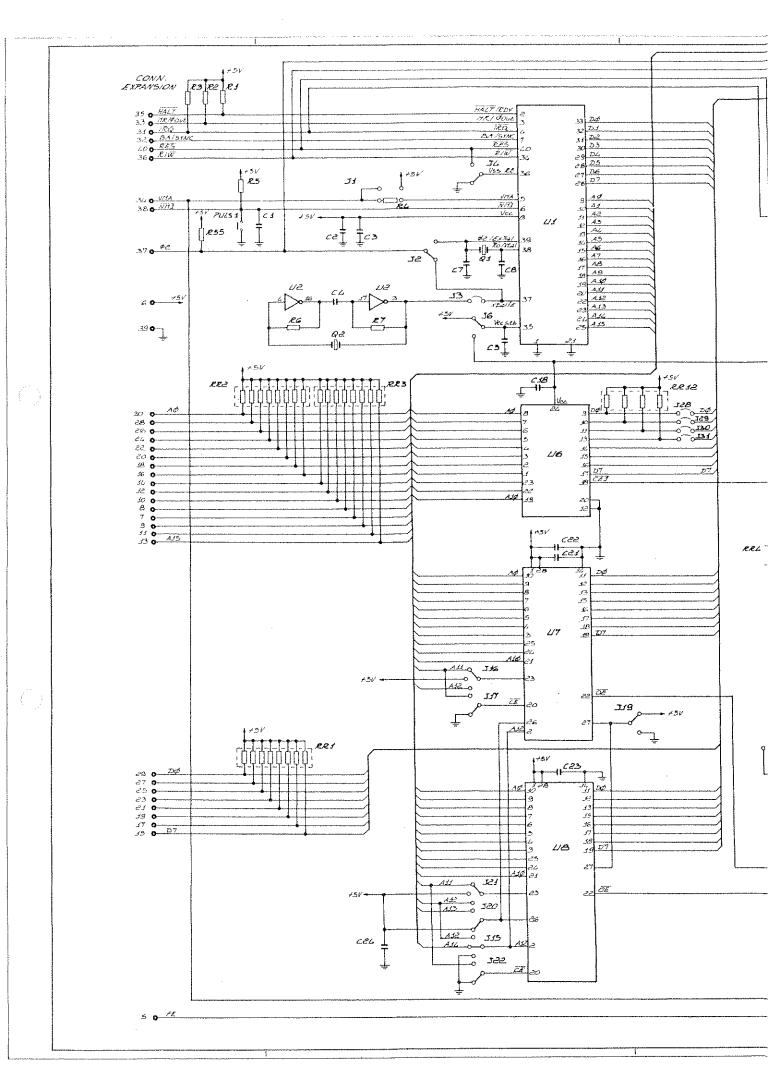


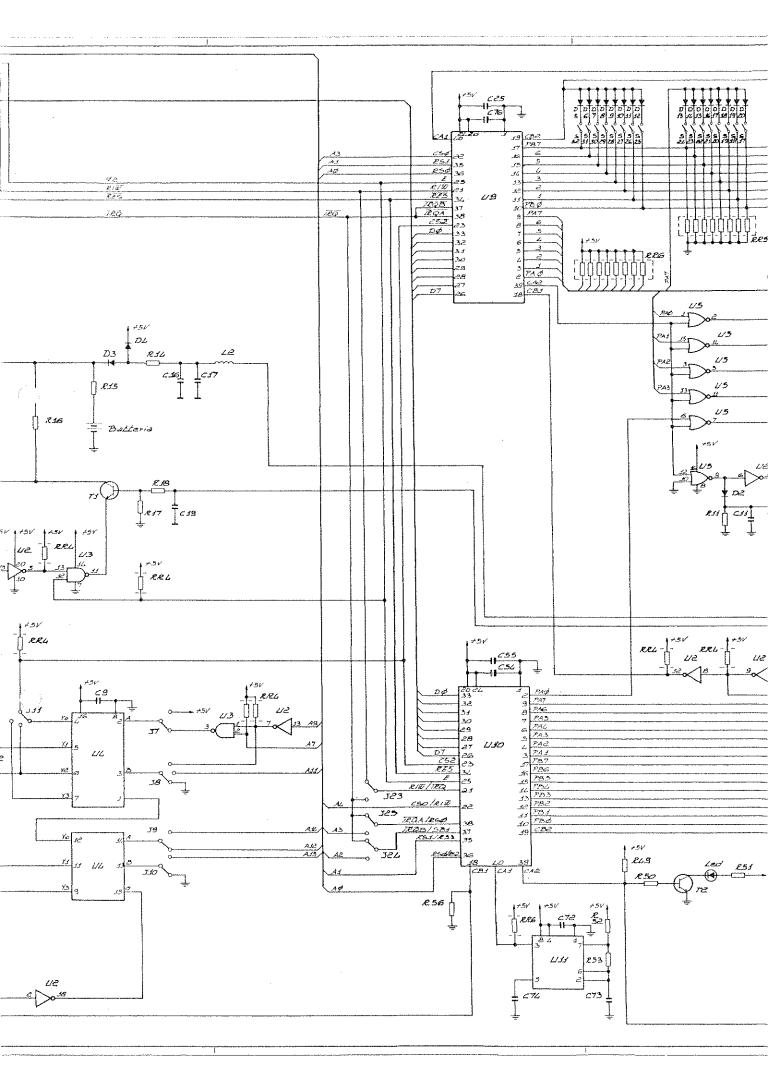


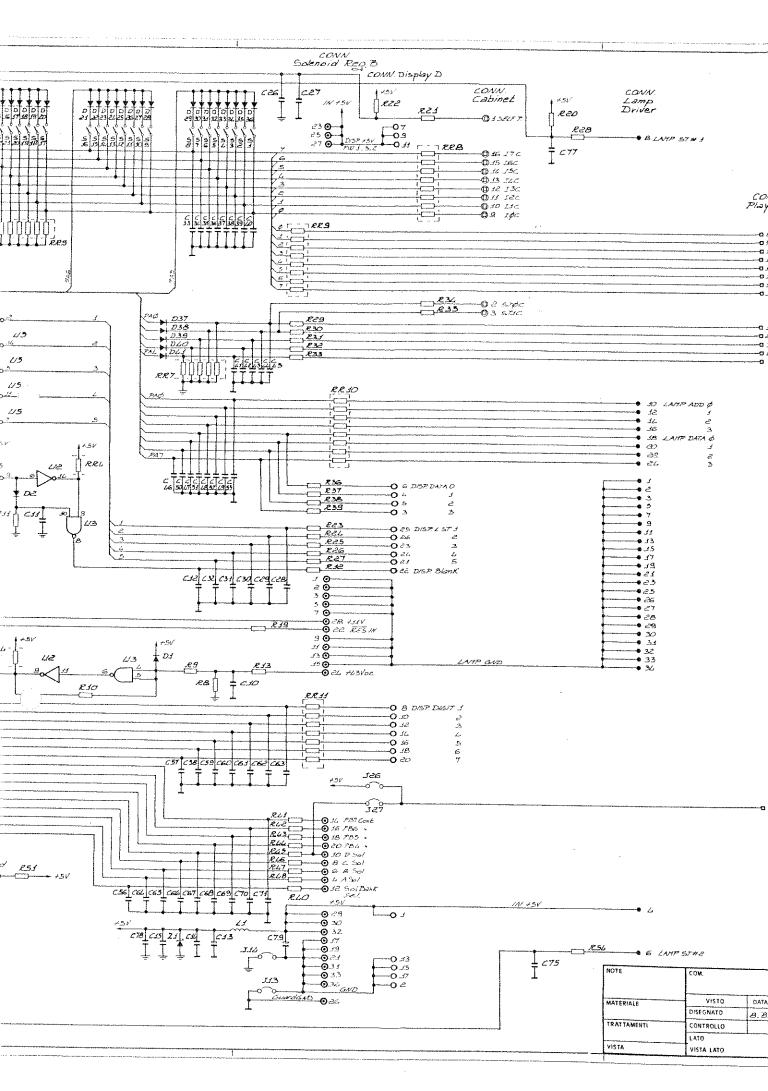


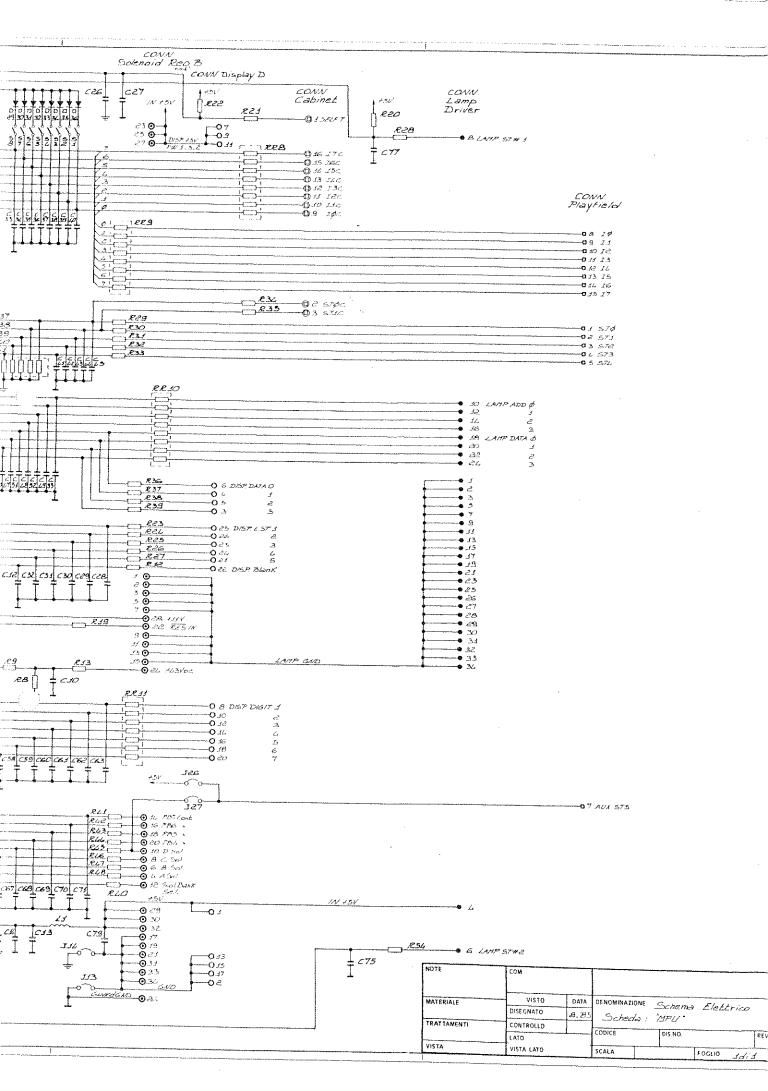
#### FLASHER LIGHT ASSEMBLY

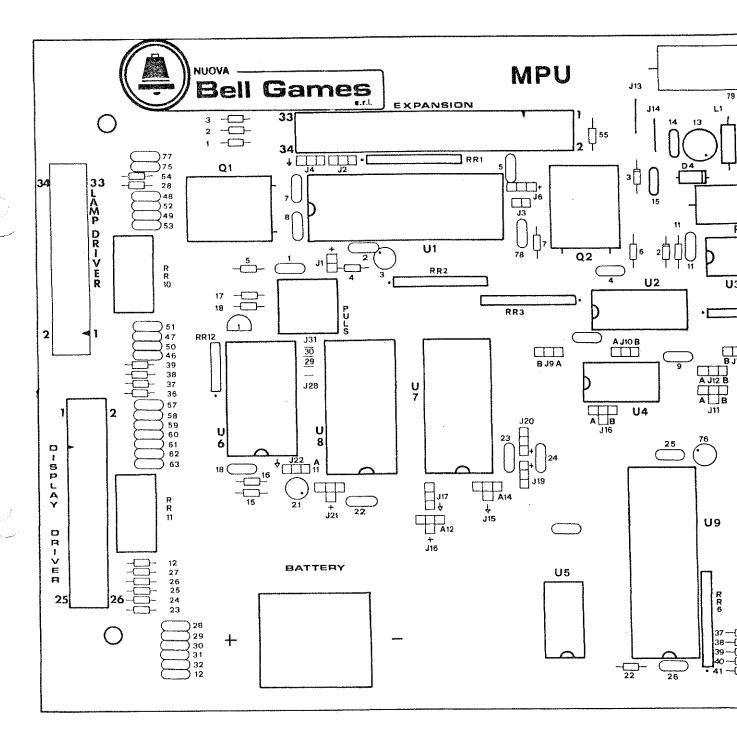






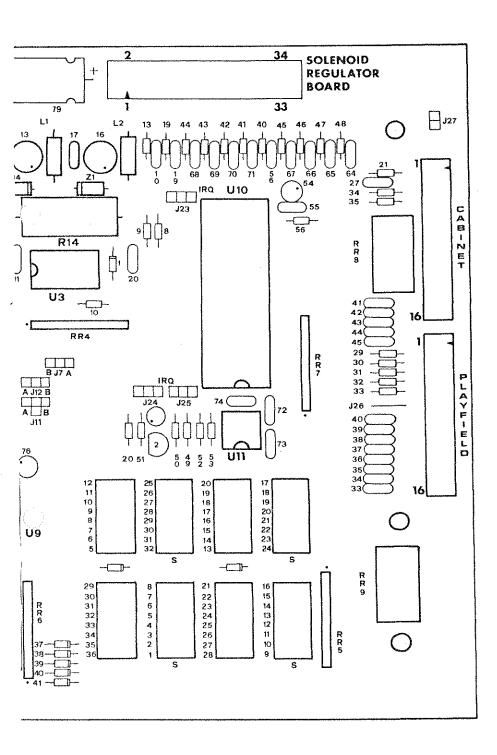


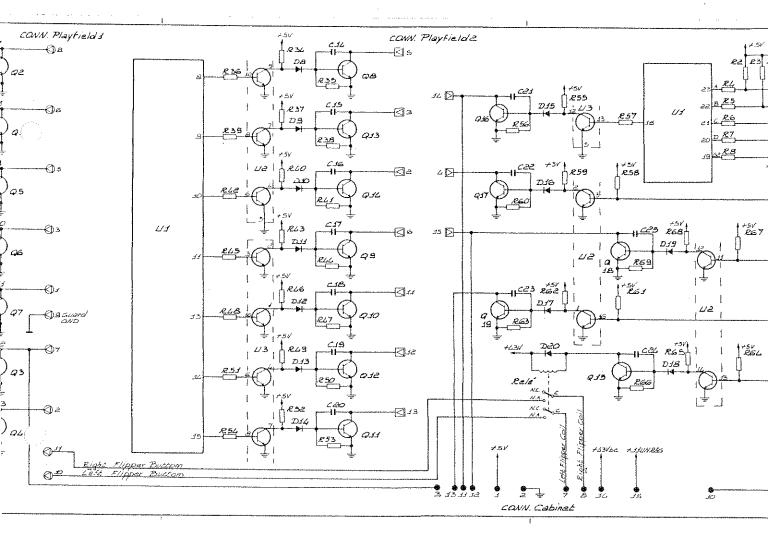


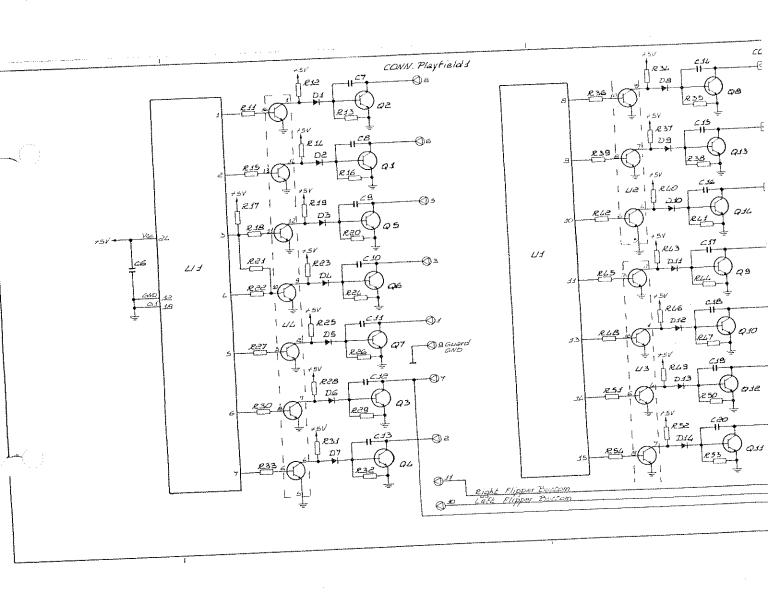


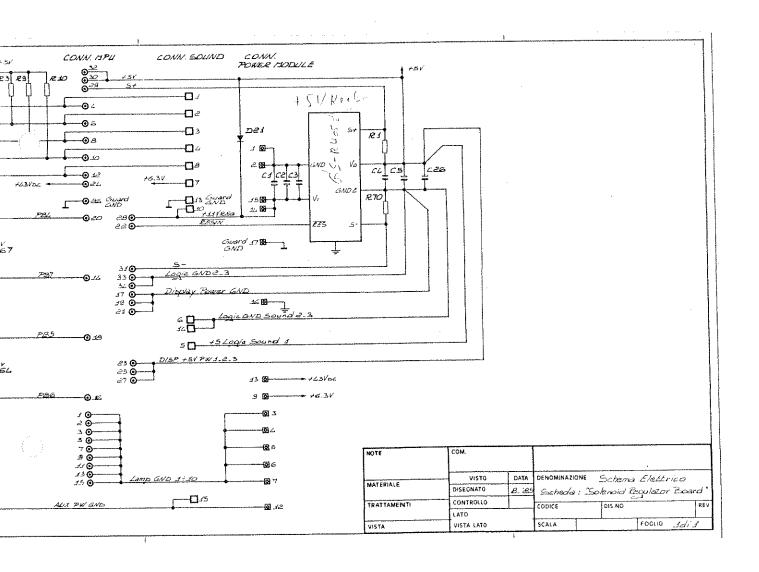
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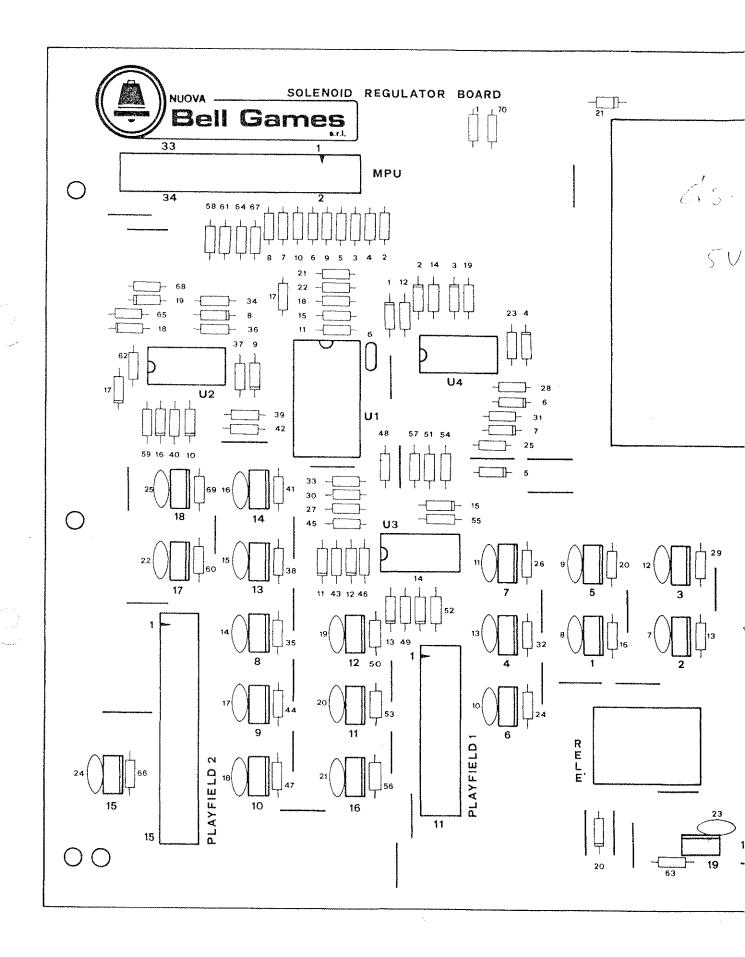
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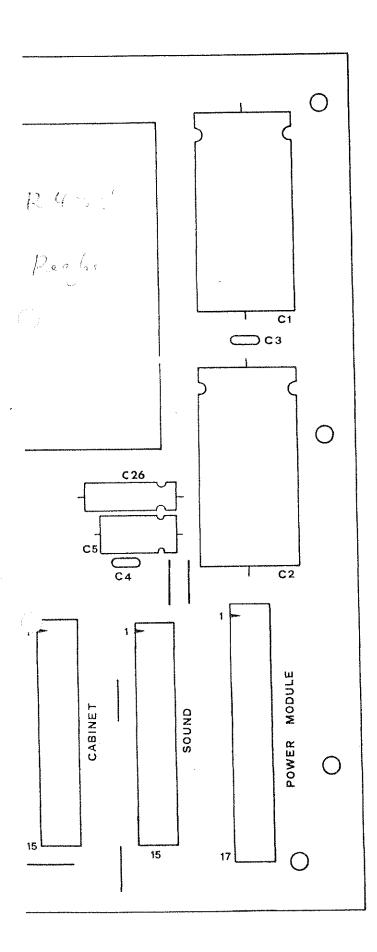


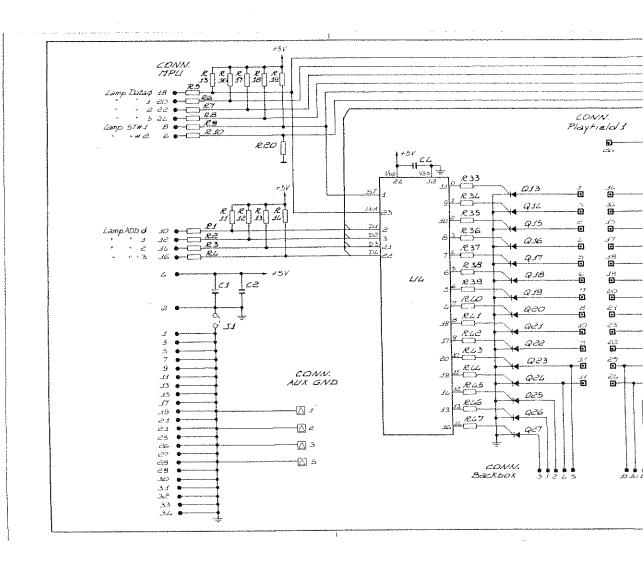






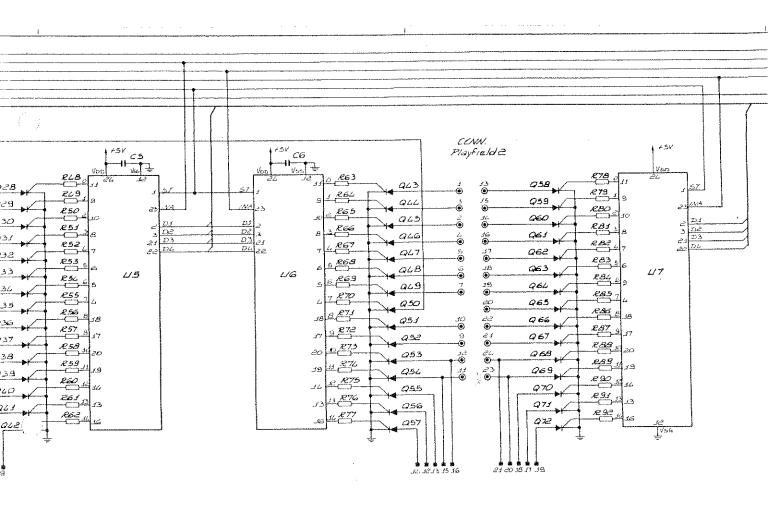


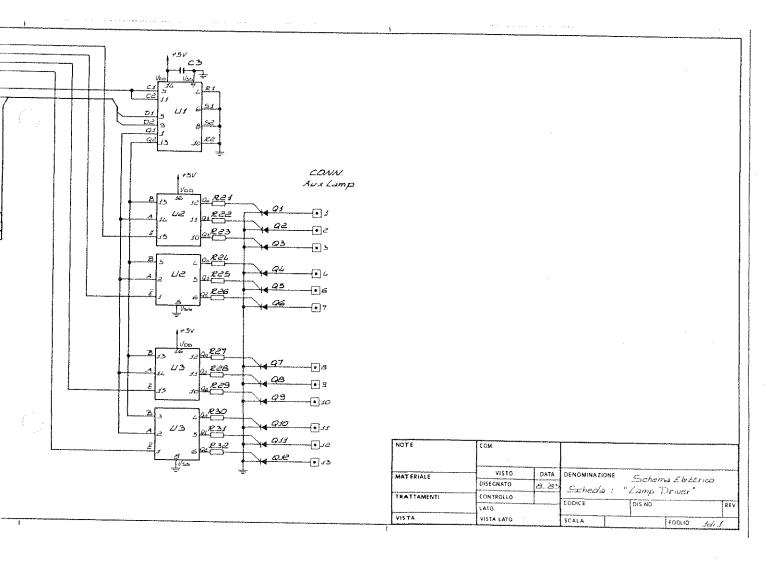


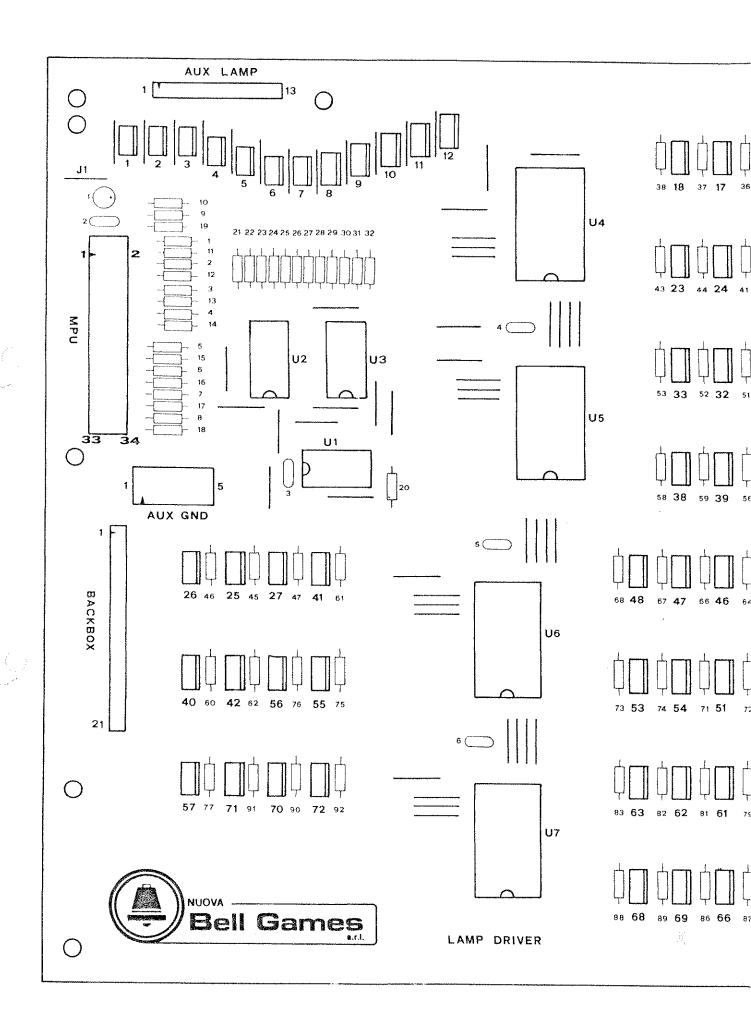


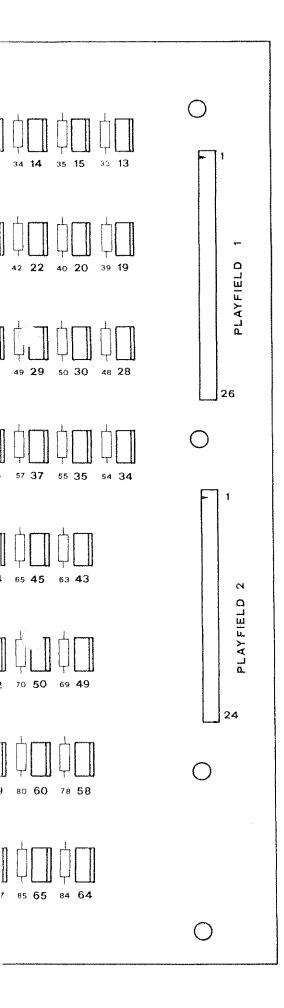
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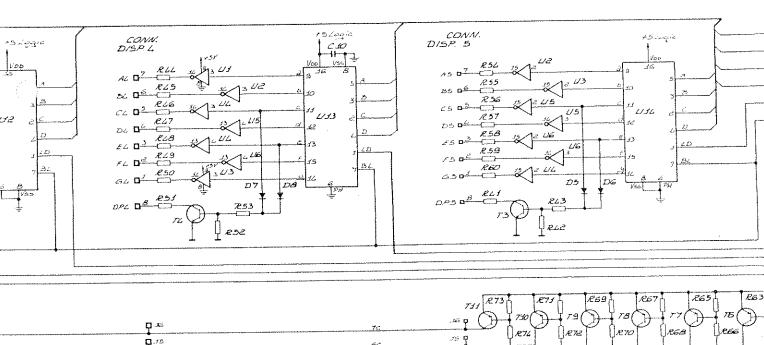






2.50 7520gic CONN. DISP. 2 + 5 / الجيني أ CONN. DISP. 1 0° R26 0° R27 0° R29 0° R29 0° R30 0° R30 33 L/JJ R.16 R.18 R.19 R.20 430 470 De 233 R32 9.16 0.15 Q 1/2 9.52 Q.11 9.10

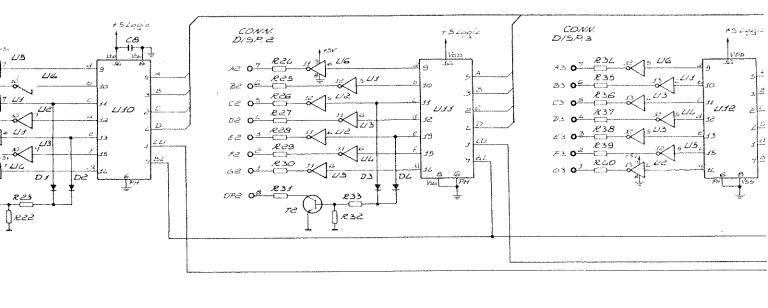
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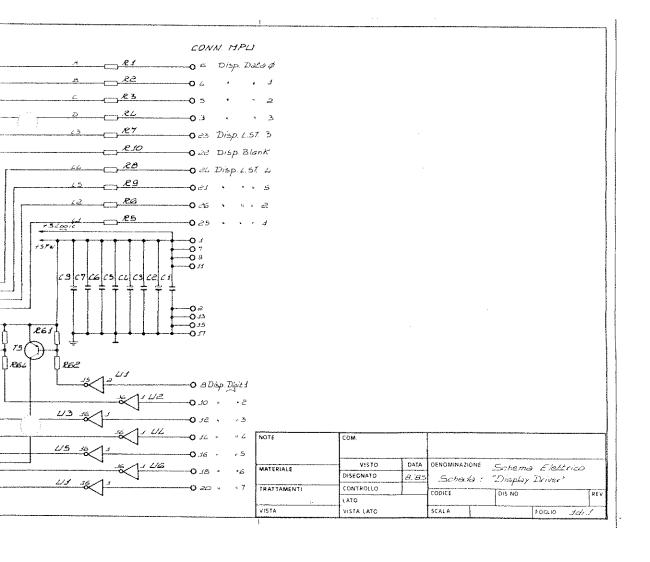
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Red Jack

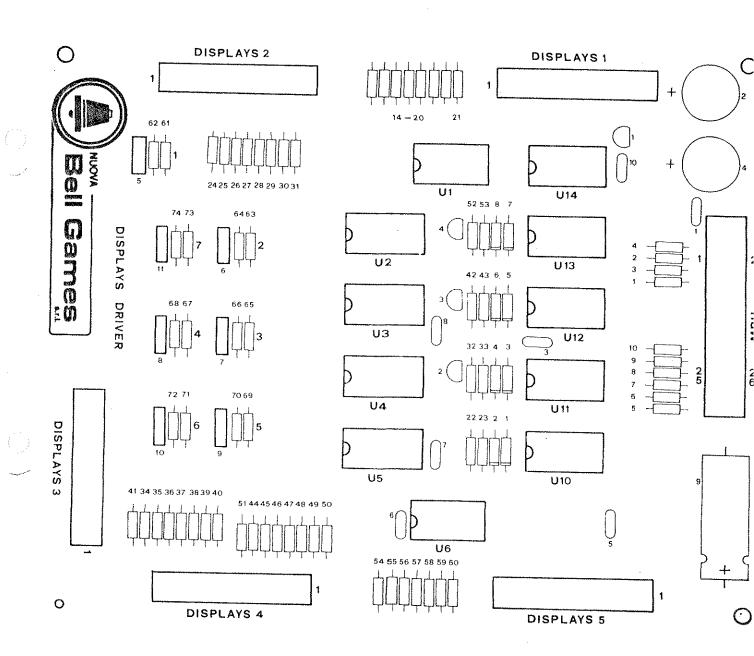
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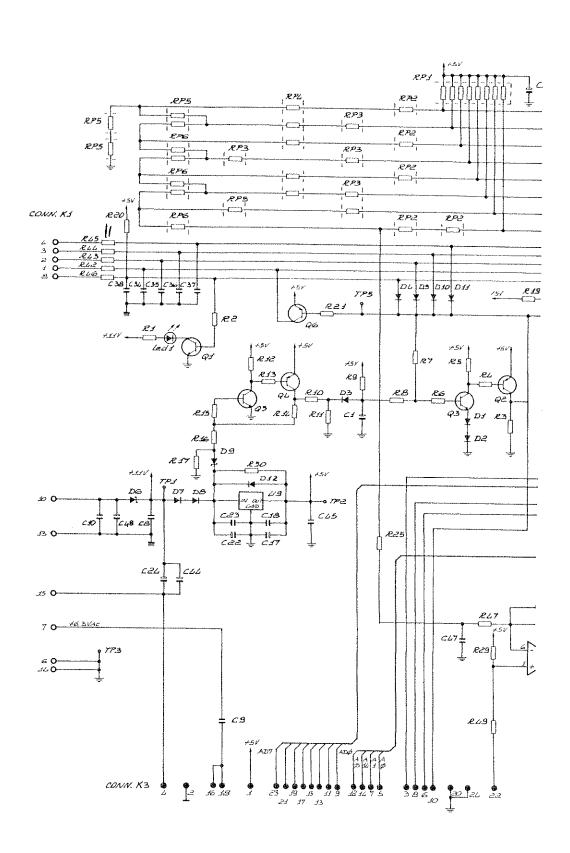


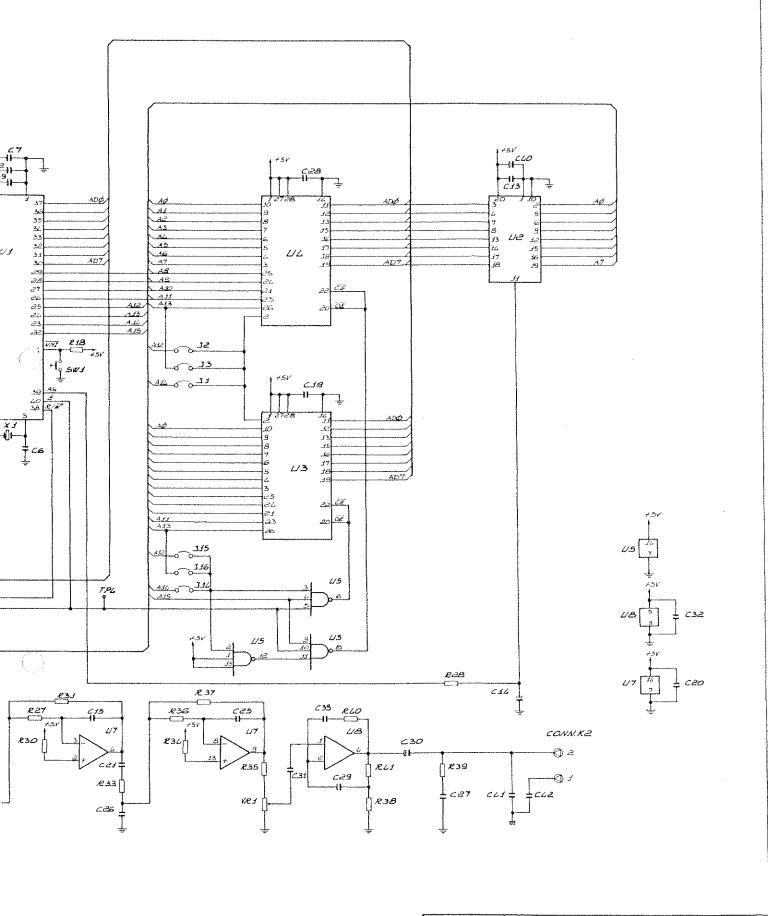
9	216	2.56
	)./s	3.5
	142	Si.
	1.3	<b>1</b> 4 3
	3.2	<b>9</b> 3/2
	.13	<b>9</b> 33
(		<b>Q</b> 30



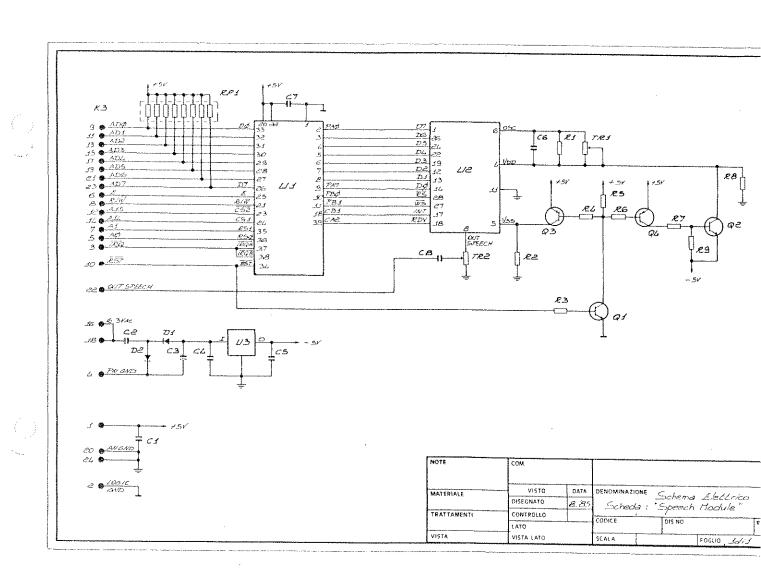
### Display Driver

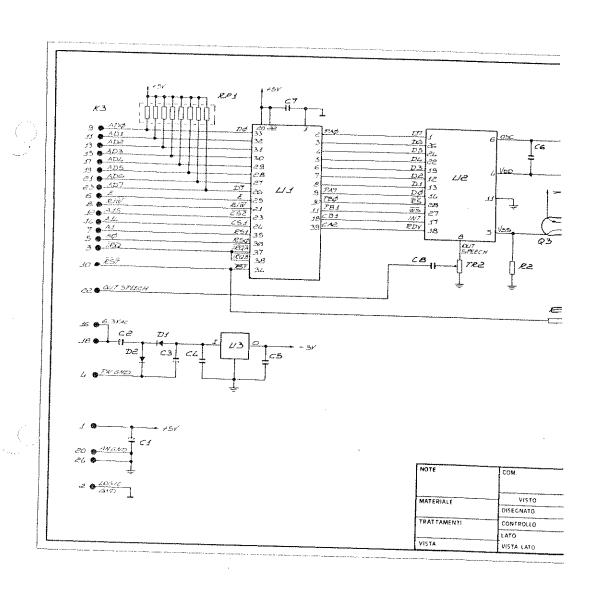




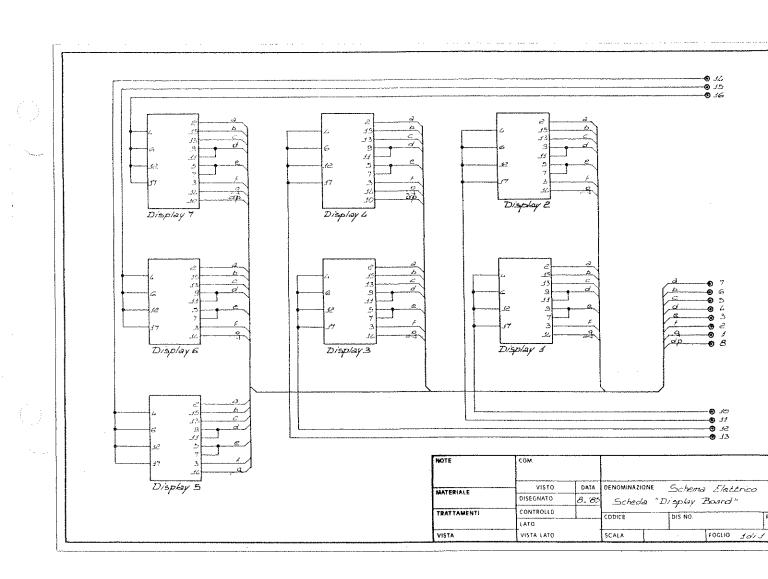


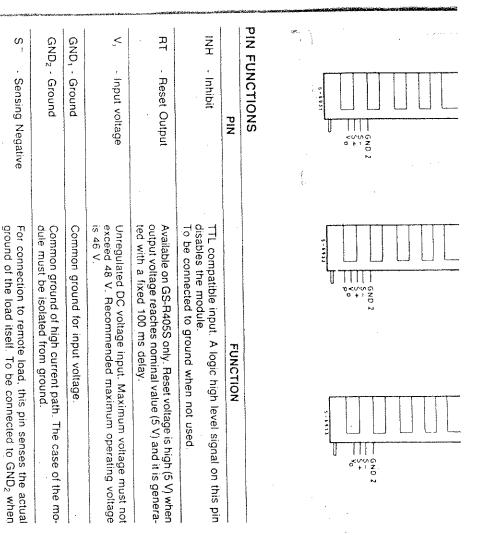
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MATERIALE	OTZIV	DATA	DENOMINA	ZIONE	Curhesto.	- Elect	4
MATERIACE	DISEGNATO	9. 85	C-,)		SOUTH		
TRATTAMENTI	CONTROLLO		CODICE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DIS NO		
	LATO		LODICE		DIS NO		
VISTA	VISTA LATO		SCALA			FOCLIO	Adi s





Displan





voltage HIND OHI TONION HIPO

## MODULE OPERATION

ching mode voltage regulators. The GSR400 series is a family of step down swit-

Minimum input voltage is therefore 8 V for GS-R405S and GS-R405; maximum input than nominal output voltage by, at least, 3 V. voltage is 48 V for all the types Unregulated DC input voltage must be higher

4 A. A minimum output current of 200 mA is reare slightly modified VS. specifications. quired for proper module operation. In no load Maximum current delivered by the output pin is Output voltage is fixed or adjustable (GS-R400V) frequency varies and electrical characteristics condition the module still works, but switching

and C MOS compatible voltage applied to the soft start function is provided. Nominal output The module can be inhibited by a TTL, N MOS voltage is approached gradually in about 25 ms To prevent output over currents at switch on, a

> high to low level, the module restarts softly module is switched off: If inhibit signal goes to ground. is not used, the INH pin must be connected Maximum DC voltage applicable to this pir 15 V. When remote control (inhibit) of the mod

vided in all the models The remote load sensing is another feature

automatically compensated. that can monitor the voltage directly across by long wires: voltage drop on these wire load when this load is connected to the moc This function is performed by two pins (S

isolated from ground. The case of the module is internally connec Therefore the case must be alw

shielding and heatsink. in a metal box that provides, in the meanti KHz. To prevent EMI, the module is contain The switching frequency of the module is

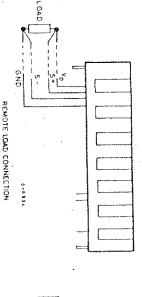


Fig. 1 - Shows how to connect the module to remote or nearby loads

NEARBY LOAD CONNECTION

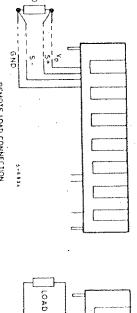
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Sensing Positive

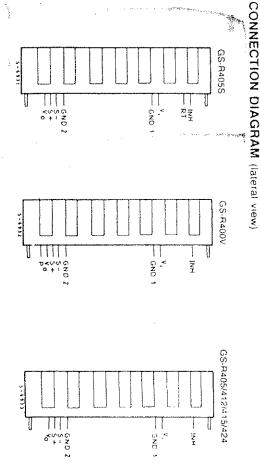
not used

For connection to remote loads this pin allows voltage sensing on the load itself. To be connected to  $V_0$  when not used



GS-R400

SERIES



For connection to remote loads this pin allows voltage sensing on the load itself. To be connected to $V_0$ when not used	S+ - Sensing Positive
For connection to remote load, this pin senses the actual ground of the load itself. To be connected to GND <sub>2</sub> when not used.	S Sensing Negative
Common ground of high current path. The case of the module must be isolated from ground.	GND <sub>2</sub> - Ground
Common ground for input voltage.	GND <sub>1</sub> - Ground
Unregulated DC voltage input. Maximum voltage must not exceed 48 V. Recommended maximum operating voltage is 46 V.	V <sub>i</sub> - Input voltage
Available on GS-R405S only. Reset voltage is high (5 V) when output voltage reaches nominal value (5 V) and it is generated with a fixed 100 ms delay.	RT - Reset Output
TTL compatible input. A logic high level signal on this pin disables the module.  To be connected to ground when not used.	INH - Inhibit
FUNCTION	PIN
The state of the s	PIN FUNCTIONS

# PIN FUNCTIONS (Continued)

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GS-R400 SERIES

	PIZ	FUNCTION
5	- Output voltage	Regulated and stabilized DC voltage is available on this pin
O		Max output current is 4 A.
		The device is protected against short circuit of this pin in
		ground or to supply.
	- Output Voltage Regulation	Output Voltage Regulation Available on GS-R400V only. A variable resistor (18 KΩ max
		voltage.

# MODULE OPERATION

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ching mode voltage regulators. The GSR400 series is a family of step down swit-

Unregulated DC input voltage must be higher than nominal output voltage by, at least, 3 V. Minimum input voltage is therefore 8 V for GS-R405S and GS-R405; maximum input voltage is 48 V for all the types.

Output voltage is fixed or adjustable (GS-R400V). Maximum current delivered by the output pin is are slightly modified VS. specifications. quired for proper module operation. In no load 4 A. A minimum output current of 200 mA is refrequency varies and electrical characteristics condition the module still works, but switching

and C MOS compatible voltage applied to the soft start function is provided. Nominal output voltage is approached gradually in about 25 ms. To prevent output over currents at switch on, a The module can be inhibited by a TTL, N MOS

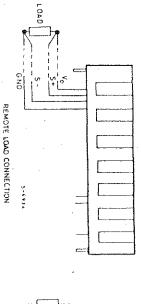
> ground. is not used, the INH pin must be connected Maximum DC voltage applicable to this pin 15 V. When remote control (inhibit) of the modu high to low level, the module restarts softly. module is switched off: if inhibit signal goes fro INH pin. When this voltage is at high level, the

vided in all the models. The remote load sensing is another feature pr

automatically compensated. by long wires: voltage drop on these wires load when this load is connected to the modu that can monitor the voltage directly across the This function is performed by two pins (S \* . S

isolated from ground. The case of the module is internally connected Therefore the case must be alway

in a metal box that provides, in the meantim shielding and heatsink. KHz. To prevent EMI, the module is containe The switching frequency of the module is 10



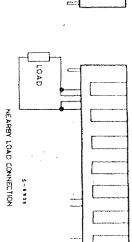
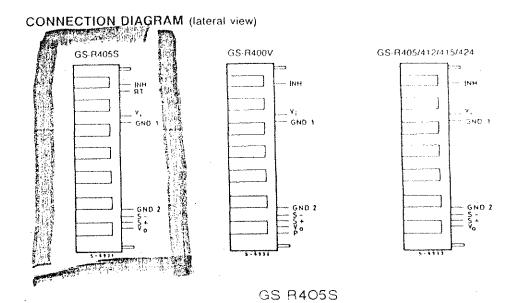


Fig. 1 - Shows how to connect the module to remote or nearby loads

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#### PIN FUNCTIONS

PiN	FUNCTION
INH - Inhibit	TTL compatible input. A logic high level signal on this pin disables the module.  To be connected to ground when not used.
RT - Reset Output	Available on GS-R405S only. Reset voltage is high (5 V) when output voltage reaches nominal value (5 V) and it is generated with a fixed 100 ms delay.
V <sub>i</sub> - Input voltage	Unregulated DC voltage input. Maximum voltage must not exceed 48 V. Recommended maximum operating voltage is 46 V.
GND <sub>1</sub> - Ground	Common ground for input voltage.
GND <sub>2</sub> - Ground	Common ground of high current path. The case of the module must be isolated from ground.
S - Sensing Negative	For connection to remote load, this pin senses the actual ground of the load itself. To be connected to GND <sub>2</sub> when not used.
S + - Sensing Positive	For connection to remote loads this pin allows voltage sensing on the load itself. To be connected to V <sub>0</sub> when not used