ROMSTAR

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WARNING

THIS GAME MUST BE GROUNDED. FAILURE TO DO SO MAY RESULT IN DESTRUCTION TO ELECTRONIC COMPONENTS.

WARNING: This equipment generates, uses, and can radiate radio frequency energy and if not used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a CLASS A computing device pursuant to SUBPART J of PART 15 of FCC RULES, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

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The game play, all graphic designs, this technical manual, its accompanying diagrams, and the display manual are protected by the law.

You may void the game warranty if you do any of the following:

- substitute non-Romstar Top Speed electronic parts in the game
- modify or alter any circuits in the game by using kits or parts not supplied by Romstar.



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LOCATION AND SETUP

INSPECTION

1.	Remove the game from its shipping carton.
2.	Inspect the entire outside of it for any signs of damage.
	Any scratches?, dents?, cracks?
	Any broken controls?
	Just look it over closely and make a note of any signs of damage.
3.	Remove the shipping cleats from the bottom of the cabinet.
4.	Install the four levelers, one at each corner of the cabinet.
	Level the cabinet.
5.	Open the cabinet and inspect the inside of the game for any signs of damage.
	Also check to make sure all plug-in connectors on the wire harness are firmly seated.
	Replug any connectors found unplugged. DO NOT FORCE PLUGS INTO CONNECTORS. DO NOT
	FORCE PLUGS TOGETHER. If it won't go on easily, assuming the keys are lined up, it either does not
	belong there or is damaged.
	Make sure all printed circuit boards (P.C.B.'s) are firmly seated in their connectors. These connectors are also keyed. The P.C.B.'s will only go into them one way without being damaged.
	Note the location of the game's serial number.
	Check all major subassemblies to be sure they are mounted securely.
	Power supply.
	Control panel(s).
	T.V. monitor.
	Other P.C.B.'s and/or P.C.B. rack, etc.
	Power Chassis.
6.	Make a note of any problems that can't be easily corrected.

NOTE: ALL connectors or plugs are keyed so they will only go together when all pins are properly lined up.

7. Call your distributor and/or service man about your problem list.

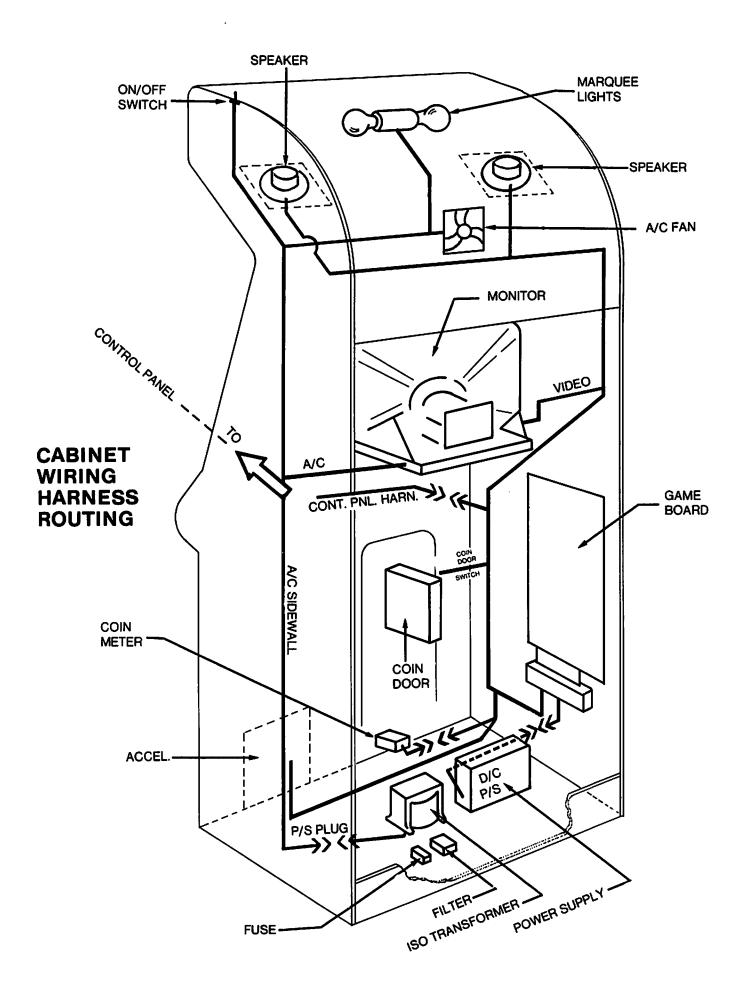
TOP SPEED

DIP SW – A	<u> </u>								
		1	2	3	4	5	6	7	8
	DELUXE	OFF	OFF OFF						
CABINET	*STANDARD	ON	OFF						
STYLE	MINI	OFF	ON						
		ON							
TECTMODE	*NORMAL			OFF					
TEST MODE	TEST	ŀ		ON		_			
ATTRACT COUNTR	*YES				OFF				
ATTRACT SOUND	NO				ON			_	
	*1 COIN-1 PLAY					OFF	OFF		
COINA	1 COIN - 2 PLAY					ON	OFF		
COIN A	2 COIN - 1 PLAY	j				OFF	ON		
	2 COIN - 3 PLAY					ON			
	* 1 COIN - 1 PLAY							OFF	OFF
COIN B	1 COIN - 2 PLAY							ON	UFF
COINE	2 COIN - 1 PLAY							OFF	ON
	2 COIN - 3 PLAY							ON	

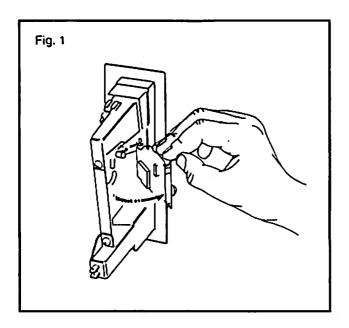
DIP SW - B

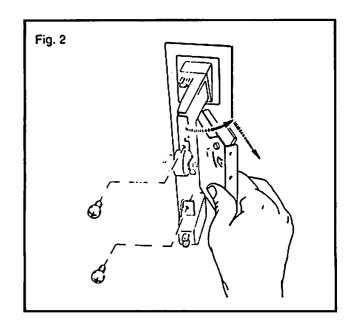
			1	2	3	4	5	6	7	8
		В	OFF	OFF						
DIFFICULTY		Α	ON							
DIFFICULIT	•	С	OFF	ON						
		D	02	ON			_			
	*	60 sec.			OFF	٥٥٥				
GAME		70 sec.			ON	OFF				
TIME		50 sec.			OFF	ON				
		40 sec.			ON	CIV			_	
	*	3					OFF	OFF		
NITRO		2					ON	OFF		
BOOST		4					OFF	ON		
		5					ON			_
CONTINUE		NO					•		OFF]
CONTINUE	*	YES							ON	
KEEP OFF	<u> </u>	OFF								OFF
ILLI OII		ON								ON

^{*} ROMSTAR RECOMMENDED SETTING



COIN DOOR MAINTENANCE





The magnet that is fitted to the mechanism, should be kept clean from foreign particles. The magnet can be cleaned by swinging the gate open. (as shown in Fig. 1). Remove metal filings from the magnet by guiding the point of a screw-driver along the edges of the magnet, such that the filings cling to the screwdriver.

The mechanism can be cleaned by immersing in water using a small brush to clean the mechanism. Rinse the mechanism with boiling water and dry with compressed air.

Note:

Since the Gold Mech relies on coins passing the magnet at a constant speed, the rejector must be free of dirt and grease which may slow down the coins. Do not lubricate the acceptor with oil as this slows down coins.

If the above procedures are not successful, check for worn, bent or damaged parts and replace where necessary.

Removal of Mechanism

To remove the coin selector: Unscrew the two screws (as shown in Fig. 2) — swing rear of selector body away from the lock-out side and withdraw.

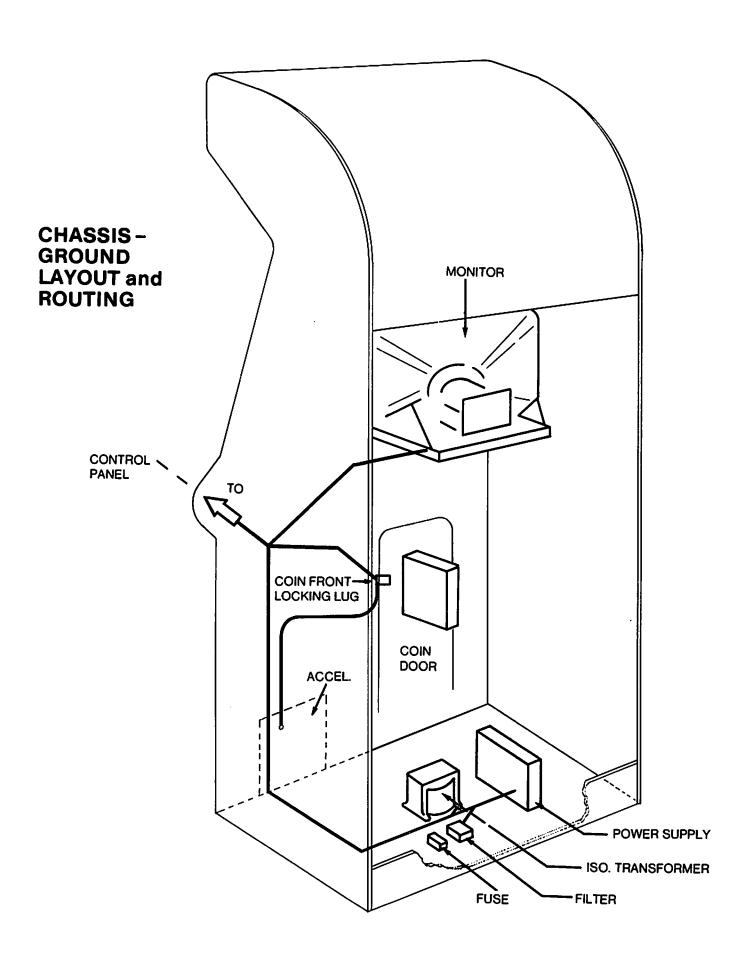
The Gold Mech Acceptors are designed to require a minimum of maintenance and field adjustment. Coins are checked by diameter and thickness, weight, metal content, bounce, and for ferromagnetic coins such as nickel and steel, a rim test also used.

Coin Switch

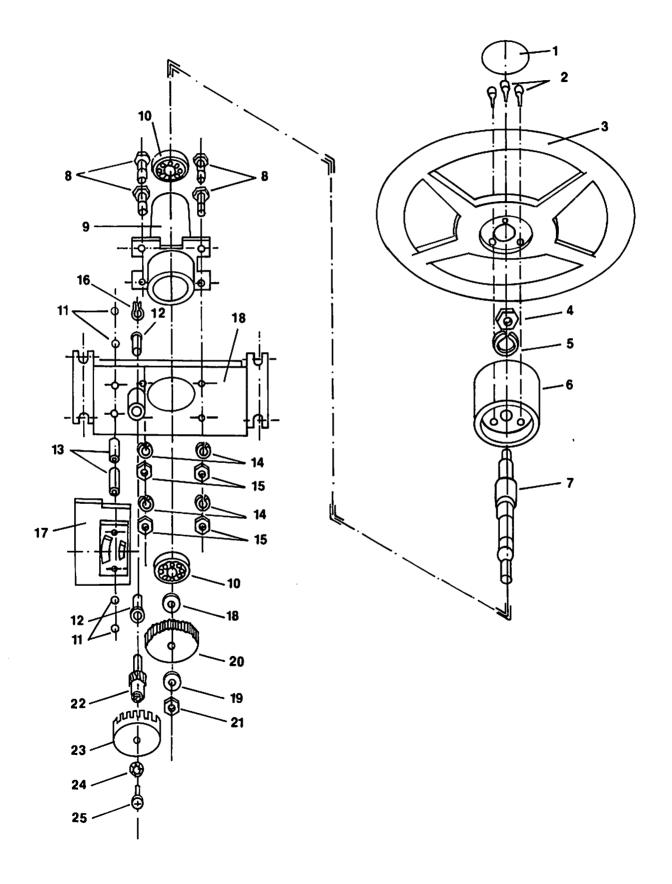
The coin switch comes in two different spring tensions — identified by the color of the plastic boss at the wire's pivot point.

Red: Light tension - U.S. .25¢

White: Heavy tension - heavy foreign coins



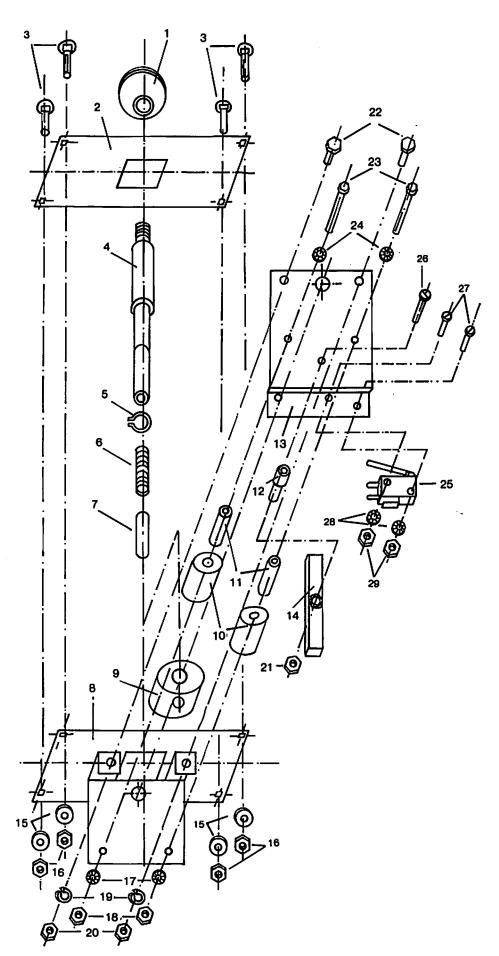
STEERING WHEEL EXPLODED VIEW



STEERING WHEEL COMPONENTS

ITEM	REFERENCE NO.	DESCRIPTION	ROMSTAR PART NO.	DESCRIPTION
1.		Stainless Steel Disk		
2.	20-0242	6 x 18 li 0 TCE Screws	4710-1	Steering Wheel w/Disc
3.		Steering Wheel		
4.		12 M O Hexagonal Nut		
5.		0 12 Elastic Washer		
6.		Hub		
7.]	Shaft		
8.		10 x 20 M 0 TE Screws		
9.		Casing		
10.	20-0243	6002 Bearing	4710-2	Steering Mechanism
11.	}	4 x 10 M 0 TCC Screws		
12.		Polyamide Bushing		
13.		Spacers		
14.		10 0 Elastic Washer		
15.		10 11 0 Hexagonal Nut		
16.		Stop ring, External 0 6		
17.	20-0244	Electronic Card	4710-3	Steering Sensor Board
18.		Support Plate		
19.		10 0 Flat Washer		
20.		2 60 Gear Wheel		
21.	20-0243	10 M 0 Self-Locking Hexagonal Nut	4710-2	Steering Mechanism
22.		2 14 Serrated Shaft		
23.		General Pulse Bell		
24.		5 0 Serrated Washer		
25.		5 x 8 M O TCC Screws		

GEAR SHIFT UNIT EXPLODED VIEW



GEAR SHIFT UNIT COMPONENTS

ITEM	REFERENCE NO.	DESCRIPTION .	ROMSTAR PART NO.	
1.	20-0041	Ball / Knob	4711-1	
2.		Template		
3.		5 x 16 M O Screws		1
		T.T.Q.S. Unit 5732		
4.		Axis	1	İ
5.		Stop Ring		
6.		Spring	1	
7.		Polyamide Runner		
8.		Casing		
9.		Central Hub		
10.		Rubber Buffers		
11.		Spacers		
12.		Cable Pivot		
13.		Side Plate		
14.	`.	Floating Bar		
15.		Flat Washers 5/15 0		1
16.		Hexagonal Nuts 5 M 0		
17.		Serrated Washer 5 0		
18.		Hexagonal Nuts 5M 0		
19.		Elastic Washer O 6		
20.		Hexagonal Nuts 6 M 0		
21.		4 M O Self-Locking Hexagonal Nut]
22.		6 x 10 M 0 T.E. Screws		
23.		5 x 35 M O T.E. Screws		
24.		Serrated Washer 5 0		
25.	20-0044	Microswitch	4711-2	
26.		4 x 25 M O T.C. Screws		•
27.		3 x 15 M O T.C. Screws		
28.		Serrated Washers 3 0		
29.		Hexagonal Nuts 3 M 0		
30.	20-0250	Entire Gear Shift Unit	4711-3	

SINGLE PEDAL ASSEMBLY COMPONENTS

ITEM	REFERENCE NO.	DESCRIPTION	ROMSTAR PART NO.	
1.	20-0247	Pedal	4712-1	
2.		Control Lever		
3.		Frontal Plate		
4.		Left Side Plate		
5.		Right Side Plate		
6.		Spring		
7.		Connection Linkage		
8.	Ì	Spacers		
9.		Spacers with Shock Absorber		
10.		Cam		
11.	20-0045	Microswitch	4712-2	
12.		5 x 55 0 T.C.P. Screws		
13.		5 x 12 M 0 T.T.L. Screws Unit 5731-65		
14.		4 x 12 M O S.T.I.E. Screws		
15.		4 x 20 M O T.C.P. Screws		
16.		3 x 20 M O T.C.P. Screws		
17.		3 M O Hexagonal Nuts		
18.		5 O Hexagonal Nuts		ì
19.		5 0 Serrated Washers		
20.		4 M O Self-Locking Hexagonal Nuts		
21.		5 0 Flat Washer		
22.		Sector in Serrated Nylon		

MAIN HARNESS PIN OUTPUT

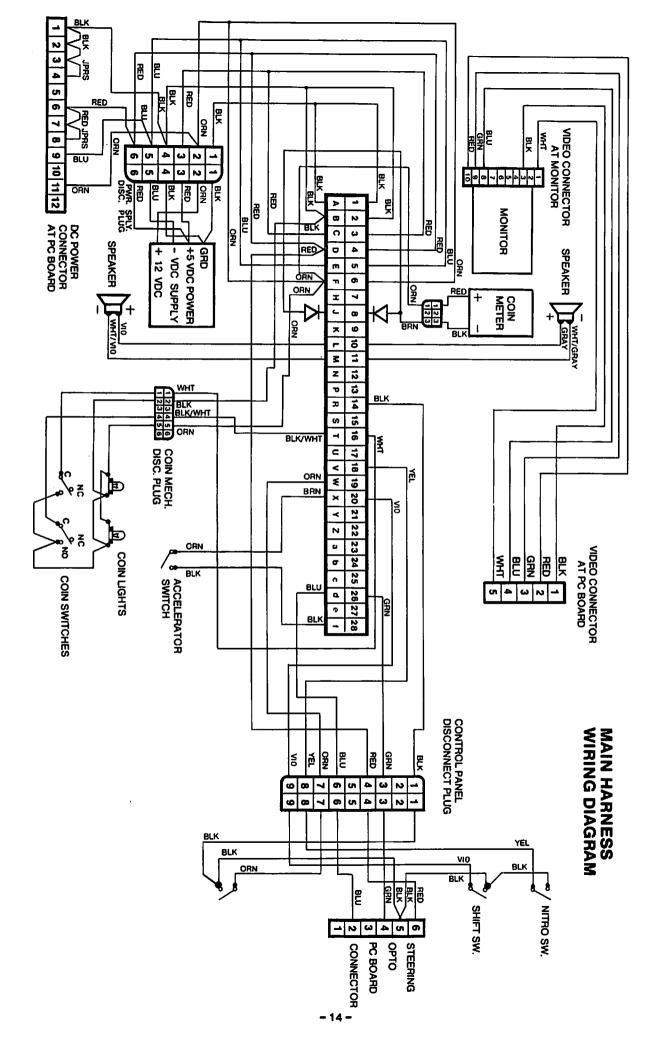
ROMSTAR - TOP SPEED

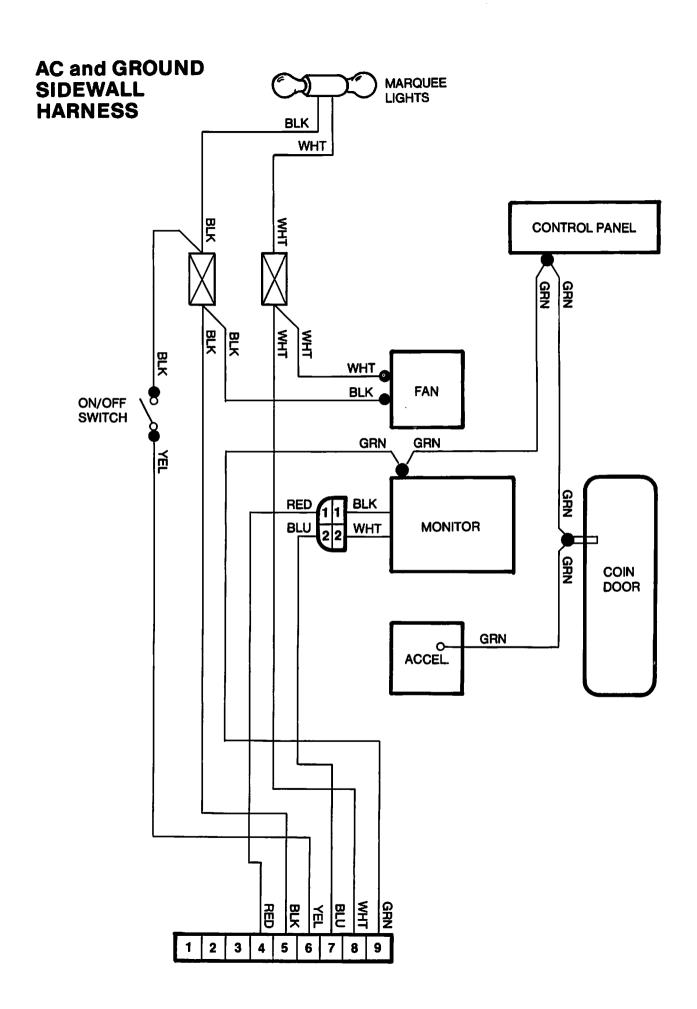
56 PIN CONN. @ PCB

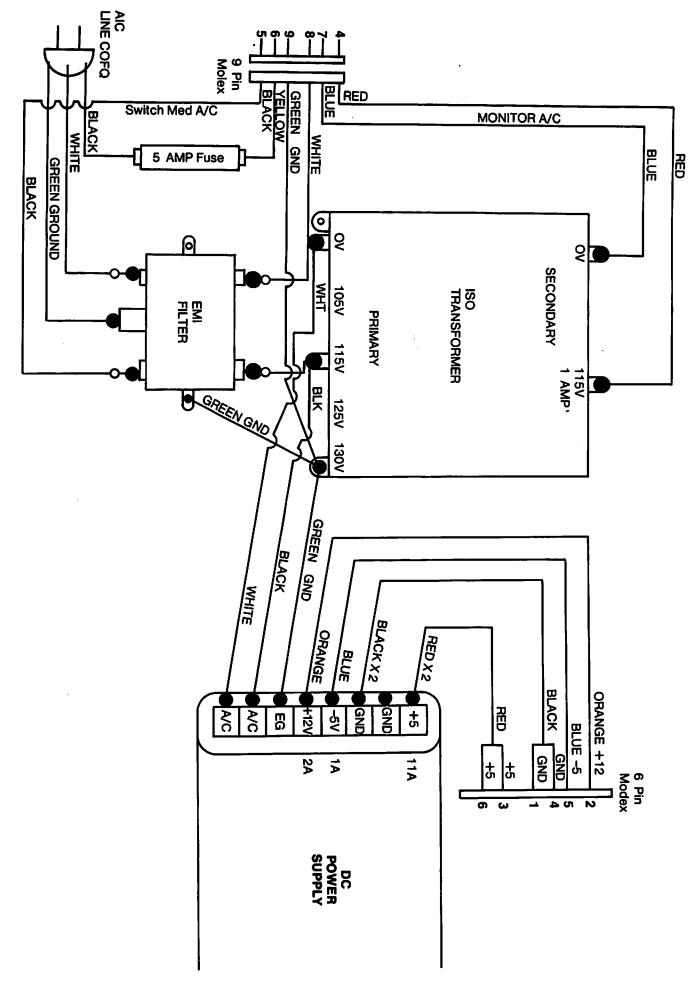
WIRE COLOR	SOLDER SIDE			PARTS SIDE	WIRE COLOR
(Jmpr.) BLK	GND	Α	1	GND (PwrSply)	BLK
(Jmpr.) BLK	Cn. Lt. & Swg. GND	В	2	GND (PwrSply)	BLK
(Jmpr.) RED	+5	С	3	+5	RED
(Jmpr.) RED	(Steering) +5	D	4	+5	RED
(Jmpr.) BLU	— 5	E	5	- 5	BLU
	IOn Mtr.				
(Jmpr). ORN	IOn Lts. +12	F	6	+12	ORN
	KEY	Н	7	KEY	
#BRN-DIODE	COIN METER 2	J	8	COIN METER 1	DIODE -BRN #
		К	9		
VIO	SPEAKER R(+)	L	10	SPEAKER L(+)	GRAY
WHT/VIO	SPEAKER R(-)	М	11	SPEAKER L(-)	WHT/GRAY
		N	12		
		Р	13		
		R	14	GND (ContPnl)	BLK
		S	15		
BLK/WHT	COIN SW. 2	Т	16	COIN SW. 1	WHT
		U	17	-	
		V	18	NITRO SW.	YEL
ORN	START SW.	W	19		
BRN	ACCEL. SW.	Х	20	SHIFT SW.	VIO
		Y	21		
		Z	22		
		a	23		
		b	24		
		С	25		
BLU	22 STEERING	d	26	STEERING 21	GRN
BLK	GND	е	27	GND	BLK
BLK	(Accl.) GND	f	28	GND	BLK

^{*} Same Brown wire to BOTH Diodes.

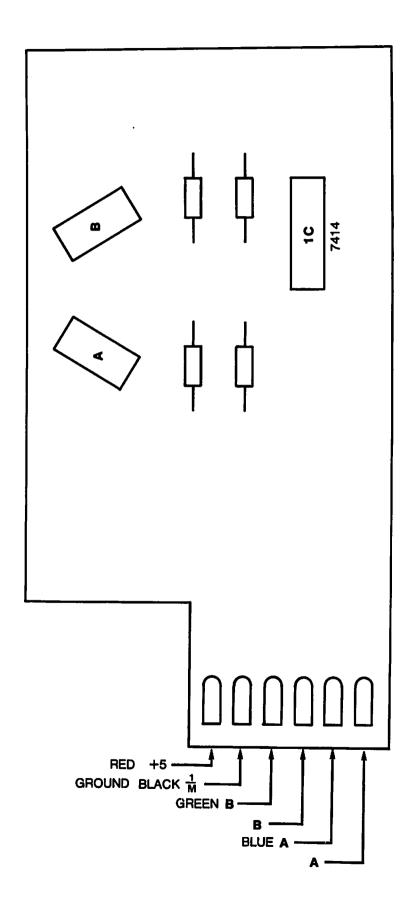
WIRE COLOR	CONNECTION CONNECTION	
Black	Ground	1
Black	Ground	2
Black	Ground	3
Black	Ground	4
	NA	5
Red	+5VDC	6
Red	+5VDC	7
Red	+5VDC	8
Blue	-6VDC	9
	Көу	10
Yellow	+12VDC	11
Yellow		12







STEERING OPTIC PCB LAYOUT



LIMITED WARRANTY

ROMSTAR INC. ("Seller"), warrants only to the initial purchaser of its products that the items listed below are free from defects in material and workmanship under normal use and service for the warranty periods specified:

A. Printed Circuit Boards (60) days
B. Electronic Components (30) days
C. Television Monitor (30) days

No other parts of Seller's products are warranted.

Warranty periods are effective from the initial date of shipment from Seller to its authroized distributors.

Seller's sole liability shall be, at its option, to repair or replace products which are returned to Seller during the warranty periods specified, provided:

- A. Seller is notified promptly upon discovery by buyer that stated products are defective.
- B. Such products are properly packaged and then returned, prepaid to Seller's plant.

This warranty does not apply to any parts damaged during shipping or handling, or due to improper installation or usage, or alteration. In no event shall Seller be liable for any anticipated profits, loss of profits, loss of use, incidental or consequential damages or any other losses incurred by the customer in connection with the purchase of Romstar Inc. product.

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