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.



TABLE OF CONTENTS

| | PA | GE |
|-------|---|-----|
| 1. | LOCATION AND SETUP | . 1 |
| II. | DIP SWITCH SETTINGS | . 2 |
| III. | CABINET WIRING HARNESS ROUTING | . 3 |
| | A. COIN DOOR MAINTENANCE | . 4 |
| | B. CHASSIS GROUND LAYOUT & ROUTING | . 5 |
| | C. NOTES | . 6 |
| IV. | STEERING WHEEL EXPLODED VIEW | . 7 |
| | A. STEERING WHEEL COMPONENTS / PARTS NUMBERS | . 8 |
| V. | GEAR SHIFT UNIT EXPLODED VIEW | . 9 |
| | A. GEAR SHIFT UNIT COMPONENTS / PART NUMBERS | 10 |
| VI. | SINGLE PEDAL ASSEMBLY EXPLODED VIEW | 11 |
| | A. SINGLE PEDAL ASSEMBLY COMPONENTS / PARTS NUMBERS | 12 |
| VII. | LAYOUTS | |
| | A. MAIN HARNESS PIN OUTPUT | 13 |
| | B. MAIN HARNESS WIRING DIAGRAM | 14 |
| | C. AC AND GROUND SIDEWALL HARNESS | 15 |
| | D. POWER SUPPLY AND WIRING DIAGRAM | 16 |
| | E. STEERING OPTIC PCB | 17 |
| /111. | LIMITED WARRANTY | 18 |
| | A. FBI WARNING | 19 |
| IX. | COMMENTS | 20 |

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.

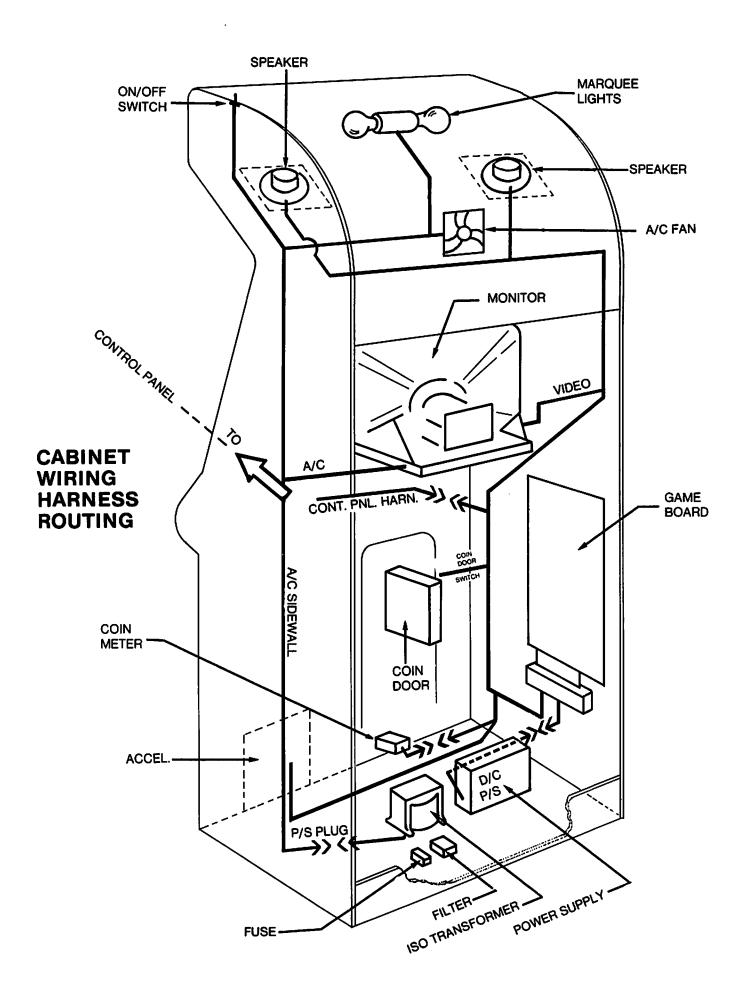
TOP SPEED

| 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 | | | | | | | |
| TEST MODE | *NORMAL | | | OFF | | | | | |
| TEST MODE | TEST | | | ON | | _ | | | |
| ATTRACT COUNT | *YES | | | | OFF | | | | |
| ATTRACT SOUND | NO | | | | ON | | | _ | |
| | *1 COIN-1 PLAY | | | | | OFF | OFF | | |
| COIN A | 1 COIN - 2 PLAY | | | | | ON | OFF | | |
| COIN A | 2 COIN - 1 PLAY | | | | | OFF | ON | | |
| | 2 COIN - 3 PLAY | | | | | ON | | | |
| | *1 COIN-1 PLAY | | | | | | | OFF | OFF |
| COIN B | 1 COIN - 2 PLAY | | | | | | | ON | UFF |
| CONTE | 2 COIN - 1 PLAY | | | | | | | OFF | ON |
| | 2 COIN - 3 PLAY | 7 | | | | | | ON | |

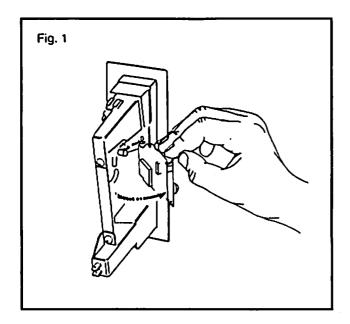
DIP SW - B

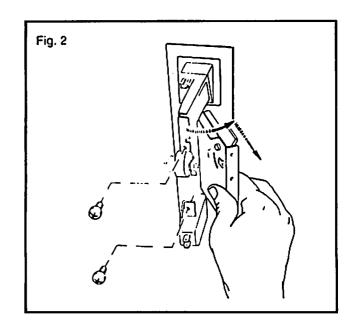
| DIF SW - B | | | | | | | , | | , | | |
|--------------|---|---------|----|----|-----|-----|-----|-----|-----|-----|-----|
| | | | 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | В | OF | F | OFF | | | | | | |
| DIFFICIII TY | | Α . | 10 | ON | | | | | | | |
| DIFFICULTY | * | С | OF | F | ОИ | | | | | | |
| | | D | 10 | ١) | OIV | | | _ | | | |
| | • | 60 sec. | | | | OFF | 055 | | | | |
| GAME | | 70 sec. | | | | ON | OFF | | | | |
| TIME | | 50 sec. | | | | OFF | ON | | | | |
| | | 40 sec. | | | | ON | | | | _ | |
| | • | 3 | | | | | | OFF | OFF | | |
| NITRO | | 2 | | | | | | ON | OFF | | |
| BOOST | | 4 | ļ | | | | | OFF | ON | | |
| | | 5 | | | | | | ON | | | _ |
| CONTINUE | | NO | | | | | | • | | OFF | |
| CONTINUE | * | YES | | | | | | | | ON | |
| KEEP OFF | • | OFF | | | | | | | | - | OFF |
| IVEPL ALI | | 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.

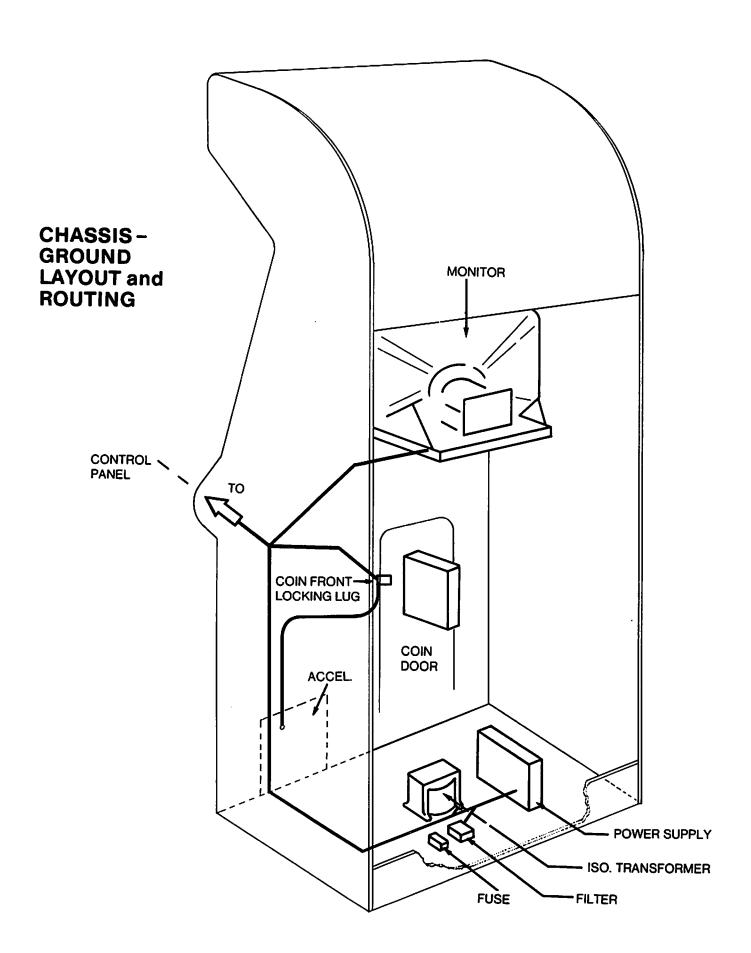
The Gold Mech Acceptors are designed to require a minimum of maintenance and field adjustment. Coins are checked by diameter and thickness, weight, metal content, bounce, and for ferromagnetic coins such as nickel and steel, a rim test also used.

Coin Switch

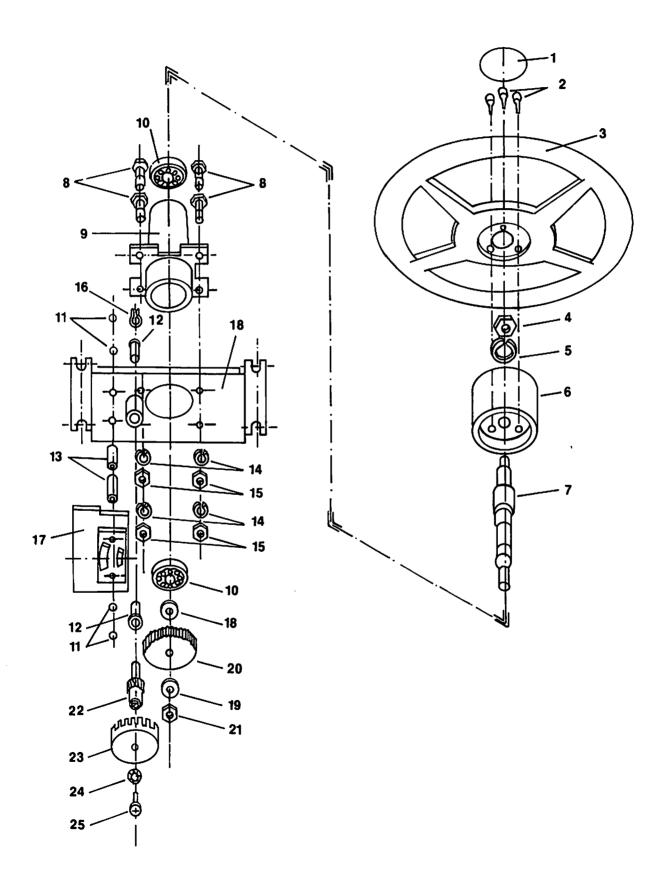
The coin switch comes in two different spring tensions — identified by the color of the plastic boss at the wire's pivot point.

Red: Light tension - U.S. .25¢

White: Heavy tension - heavy foreign coins



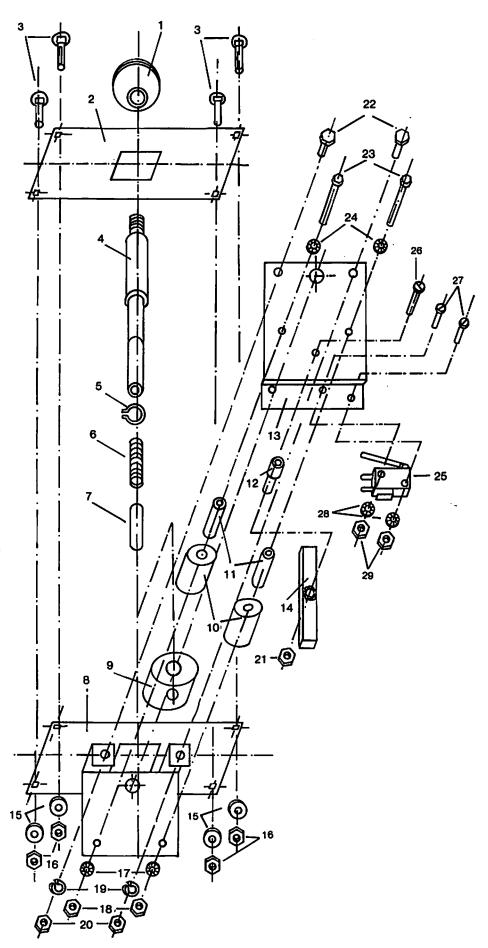
STEERING WHEEL EXPLODED VIEW



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 | | İ |
| 14. | | 10 0 Elastic Washer | | |
| 15. | | 10 11 0 Hexagonal Nut | | |
| 16. | | Stop ring, External O 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 | | į. |
| | | T.T.Q.S. Unit 5732 | | |
| 4. | | Axis | 1 | <u> </u> |
| 5. | | Stop Ring | | |
| 6. | | Spring | | |
| 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 | | |
| 16. | | Hexagonal Nuts 5 M O | | |
| 17. | | Serrated Washer 5 0 | | |
| 18. | | Hexagonal Nuts 5M 0 | | 1 |
| 19. | | Elastic Washer O 6 | | |
| 20. | | Hexagonal Nuts 6 M O | | |
| 21. | | 4 M O Self-Locking Hexagonal Nut | | |
| 22. | | 6 x 10 M 0 T.E. Screws | İ | |
| 23. | | 5 x 35 M O T.E. Screws | | |
| 24. | | Serrated Washer 5 0 | | |
| 25. | 20-0044 | Microswitch | 4711-2 | 1 |
| 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. | İ | 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 O 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. | A ii | 5 O Hexagonal Nuts | | İ |
| 19. | | 5 O Serrated Washers | | |
| 20. | | 4 M O Self-Locking Hexagonal Nuts | | |
| 21. | | 5 0 Flat Washer | | |
| 22. | | Sector in Serrated Nylon | | |

MAIN HARNESS PIN OUTPUT

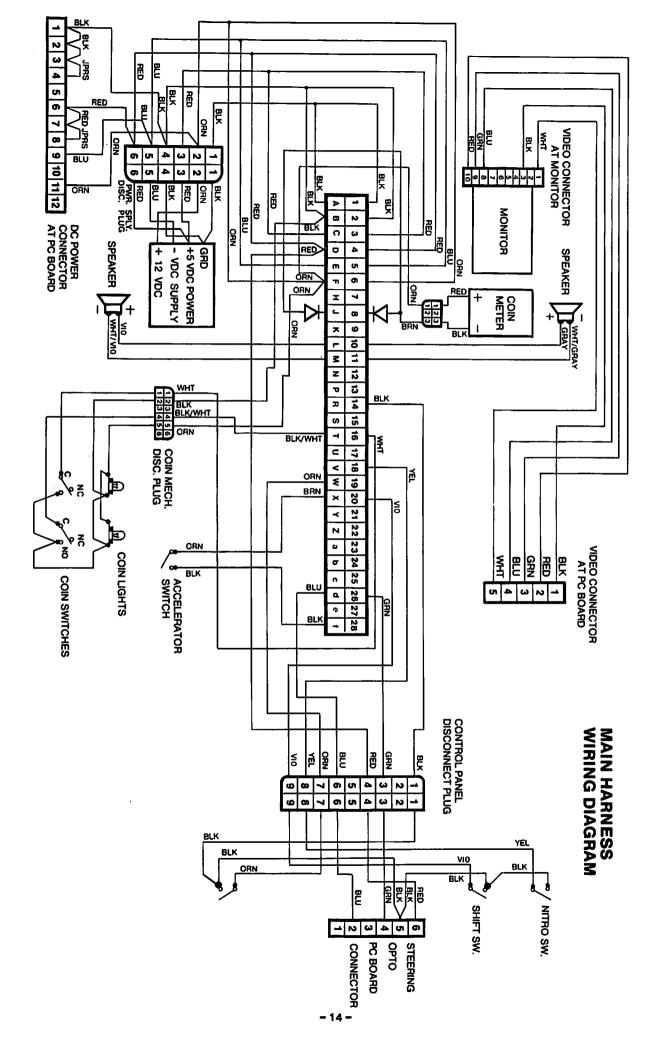
ROMSTAR - TOP SPEED

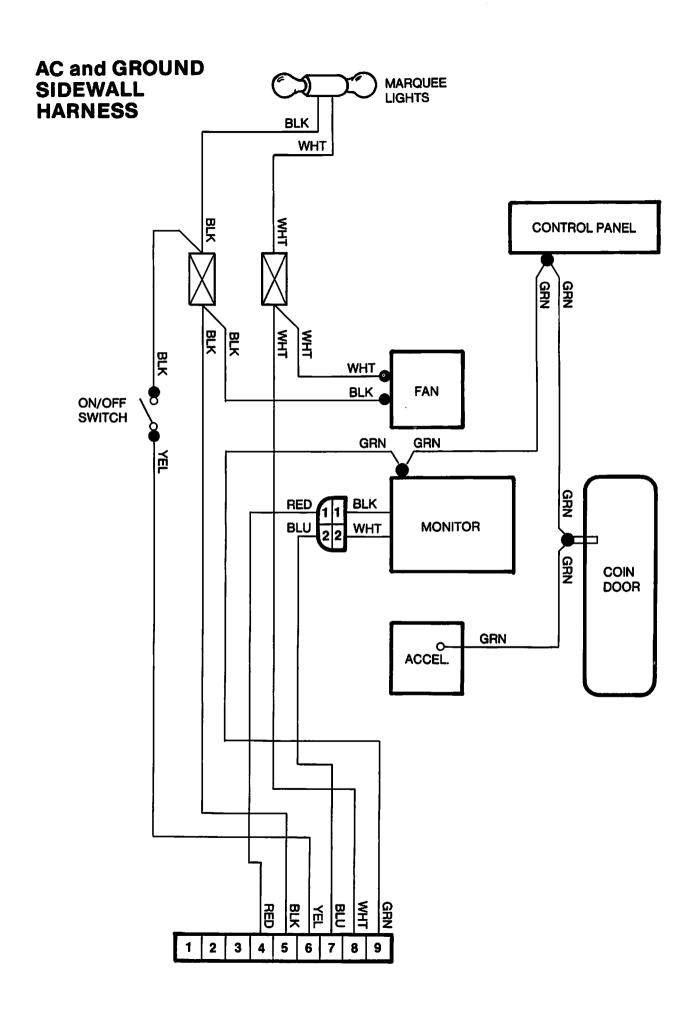
56 PIN CONN. @ PCB

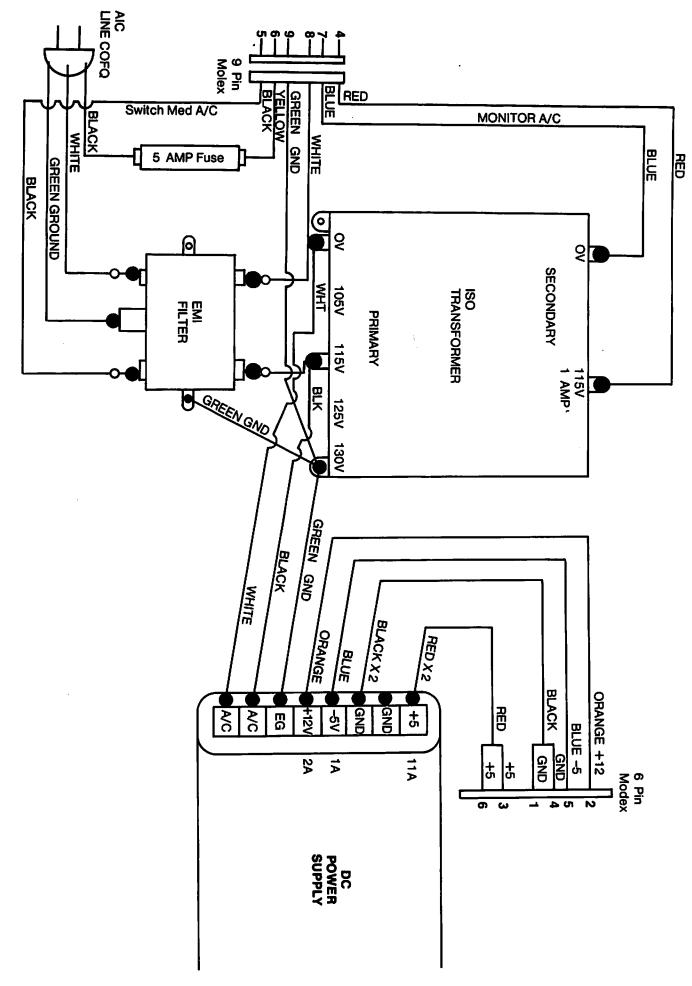
| WIRE COLOR | SOLDER SIDE | | | PARTS SIDE | WIRE COLOR |
|-------------|--------------------|----|----|---------------|--------------|
| (Jmpr.) BLK | GND | Α | 1 | GND (PwrSply) | BLK |
| (Jmpr.) BLK | Cn. Lt. & Swg. GND | В | 2 | GND (PwrSply) | BLK |
| (Jmpr.) RED | +5 | С | 3 | +5 | RED |
| (Jmpr.) RED | (Steering) +5 | D | 4 | +5 | RED |
| (Jmpr.) BLU | -5 | E | 5 | - 5 | BLU |
| ORN | On Mtr. | | | | |
| (Jmpr). ORN | On Lts. +12 | F | 6 | +12 | ORN |
| | KEY | Н | 7 | KEY | |
| #BRN-DIODE | COIN METER 2 | J | 8 | COIN METER 1 | DIODE -BRN # |
| | | K | 9 | | |
| VIO | SPEAKER R(+) | L | 10 | SPEAKER L(+) | GRAY |
| WHT/VIO | SPEAKER R(-) | M | 11 | SPEAKER L(-) | WHT/GRAY |
| | | N | 12 | | |
| | | Р | 13 | | |
| | | R | 14 | GND (ContPnl) | BLK |
| | | S | 15 | | |
| BLK/WHT | COIN SW. 2 | T | 16 | COIN SW. 1 | WHT |
| | | U | 17 | - | |
| | | V | 18 | NITRO SW. | YEL |
| ORN | START SW. | W | 19 | | |
| BRN | ACCEL. SW. | X | 20 | SHIFT SW. | VIO |
| | | Υ | 21 | | |
| | | Z | 22 | | |
| | | 8. | 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.

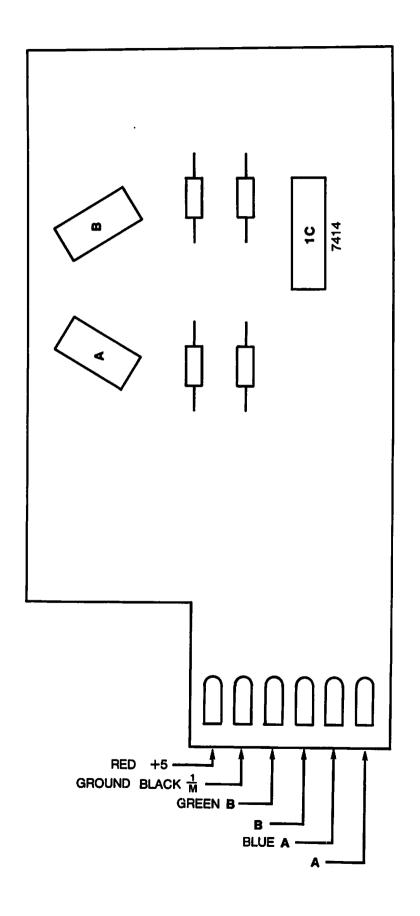
| WIRE COLOR | CONNECTION CONNECTION | |
|---------------|-----------------------|----|
| Black | Ground | 1 |
| Black | Ground | 2 |
| Black | Ground | 3 |
| Black | Ground | 4 |
| | NA | 5 |
| Red | +5VDC | 6 |
| Red | +5VDC | 7 |
| Red | +5VDC | 8 |
| Blue | -6VDC | 9 |
| | Кеу | 10 |
| Yellow | +12VDC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

(60) days

(30) days

A. Printed Circuit Boards
B. Electronic Components

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.

(WARRANTY DISCLAIMER)

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|--------------------------------------|-------------------------------|--------------------------|---------|
| part of preparing new games/manuals. | | | |

If you have any technical questions regarding our games or are requesting additional information, please contact our Customer Service Department.

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ROMSTAR INC.

TORRANCE, CALIFORNIA