

TAITO

CHASE H.Q.™

UP RIGHT

CHASE H.Q., WE HAVE AN EMERGENCY HERE!
THE CRIMINAL IS GETTING AWAY.
CHASE AND APPREHEND THE VEHICLE.
LET'S GO MR. DRIVER!!



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SERVICE INSTRUCTIONS AND PARTS CATALOGUE

ELECTROCOIN

TAITO CORPORATION

PART NO.: 64017

CHASE H.Q.

Specifications:

- | | |
|----------------------|--|
| 1. Power Supply | 240/220vac |
| 2. Power Consumption | 140 W |
| 3. Play Pricing | Adjustable on dip switches |
| 4. TV Monitor | 20-inch Color(Hantarex 9000E) |
| 5. Dimensions | Width : 588mm
Depth : 870mm
Height: 1823mm |
| 6. Weight | Approximately ¹³⁰ 108 Kg |

* The specifications and appearance may be changed for improvement.

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Installation

- o Avoid rough handling in transportation; the picture tube is fragile.
- o This machine is designed for "indoor" use.
So install the machine indoors only.
- o Install the machine on flat-surfaced floor (made of concrete, etc.) and provide suitable space around it. Do not install the machine in locations with vibrations.
- o Do not install the machine in locations exposed to sunlight or excessive heat to avoid the environmental temperature rise. Also, do not install the machine at places where it is humid and/or dusty.

o Do not install the machine in dangerous places in view of fire door exits fire alarm equipment, etc.

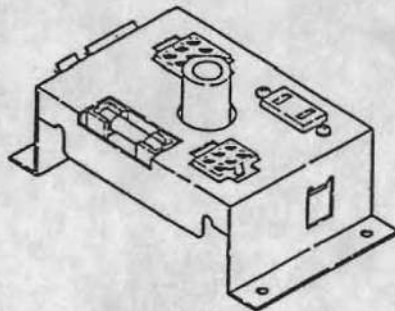
o Never fail to connect the "ground terminal" of the machine and the "ground line" of the power supply cord.

- o Before turning on the power switch!
The screws for fastening the parts may be loosened by vibrations, etc. in transportation. Make certain that the PC board is correctly attached and the connectors are perfectly plugged.
- o Plug the power cord plug into the outlet and turn on the power switch.
Before this, make sure the power supply and the current capacity.
- o In case that any malfunction occurs after turning on the power: First, turn off the power switch, and check the power supply and each output by referring the handling care.
This machine does not work normally unless the proper power supply voltage is supplied.

Handling Care

- This game uses microprocessors and other ICs for long stable performance life, however, as with sophisticated electronic equipment, certain precaution must be observed to avoid damage.
 - Do not attempt to service with ordinary testing equipment, since the internal voltage of testing equipment may cause damage to the circuitry.
 - Never connect or disconnect any of connectors of the PCB set when the power is on.
- As higher voltages exist in the video monitor, extra care must be taken when inspecting and adjusting the video monitor.
- Do not use fuses with other current capacity than specified. If the fuses with the specified current capacity are blown, check the power unit.

In the cabinet



(Connector Box)
(5A)

4. Maintenance

- Although this machine has been designed basing on the good safety standards, some trouble may occure in a long period. Therefore, it is necessary for the machine owner and operation manager to take daily checking to make sure that the safety condition of the machine is well kept.

Central Control

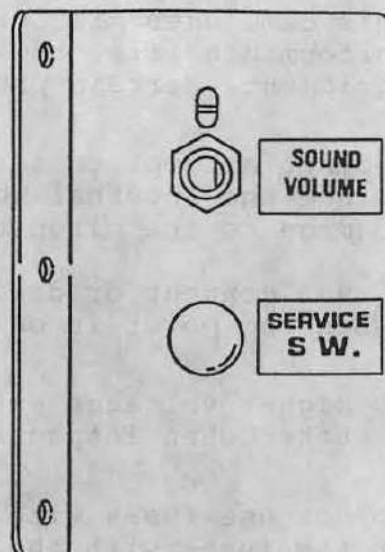
★ The central control is located inside the rejector door.

o Sound Volume Control Knob

Turning the knob clockwise increases the sound volume. Adjust it to suit the environment of the location.

o Service Switch

By pressing this switch, the number of credits can be increased without operating the coin counter.



★ Explanation for Adjustors

○ R. G. B. -GAIN, BIAS

R-GAIN, BIAS...for changing the strength of red color

G-GAIN, BIAS...for changing the strength of green color

B-GAIN, BIAS...for changing the strength of blue color

○ BRIGHT(Brightness Control)

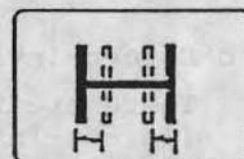
Use this control for adjusting the screen brightness.

Adjust this control depending on the condition of location.

○ H. SIZE(Horizontal Width Control)

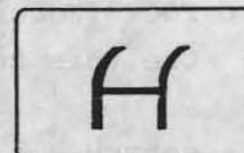
Use this control for adjusting the horizontal picture size.

When adjusting, use a core driver.



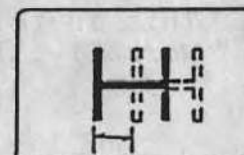
○ H. HOLD(Horizontal Hold Control)

Use this control when the picture rolls horizontally.



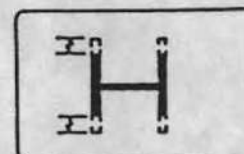
○ H. PHASE(Horizontal Phase Control)

Use this control for adjusting the horizontal timing.



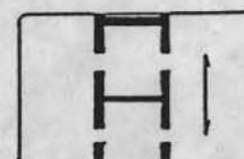
○ V. SIZE(Vertical Picture-Size Control)

Use this control for adjusting the vertical picture size.



○ V. HOLD(Vertical Height Control)

Use this control when the picture rolls vertically.



○ V. POSITION(Vertical Centering Control)

Use this control to move the picture vertically onto the desired position.



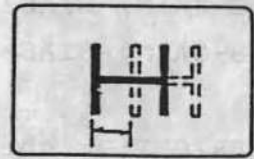
o V. LIN(Vertical Linearity Control)

Use this control when the picture shrinks vertically.



o H. POSITION(Vertical Display Position Control)

Use this control for moving the picture horizontally onto the desired position.



o Screen-Size-Changing Chip

There are two chips; "NARROW"(Standard Size) and "WIDE" (Larger Size). Normally, set to the "NARROW".

o Screen-Inversion Connectors

There are two connectors; "NORMAL"(Standard) and "REVERSE" (Screen-Inversion). Normally, set to the "NORMAL".

o FOCUS(Focus Control)

Use this control for adjusting the screen focus.

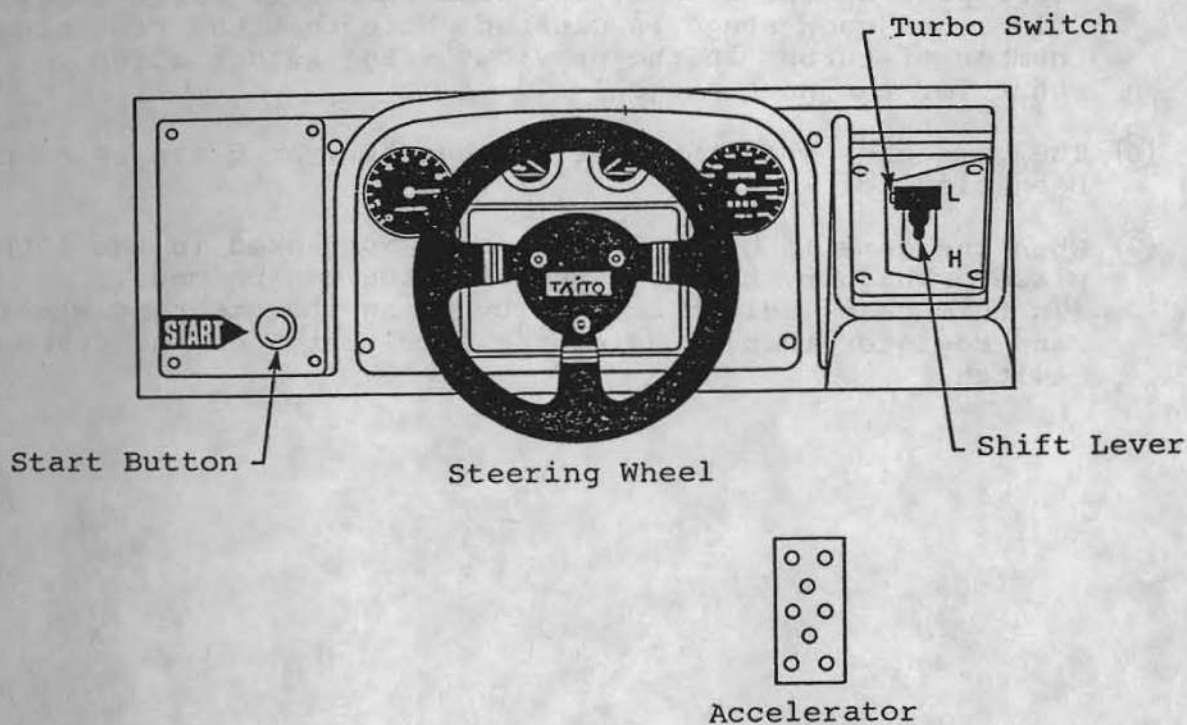
o SCREEN

This is to be set to the "cut-off" point. Normally, this control is not used.

Play Instructions

- o This game is a driving game in which the player drives TURBO to dash himself against a criminal's car in each round and to arrest the criminal.

[Control Part]



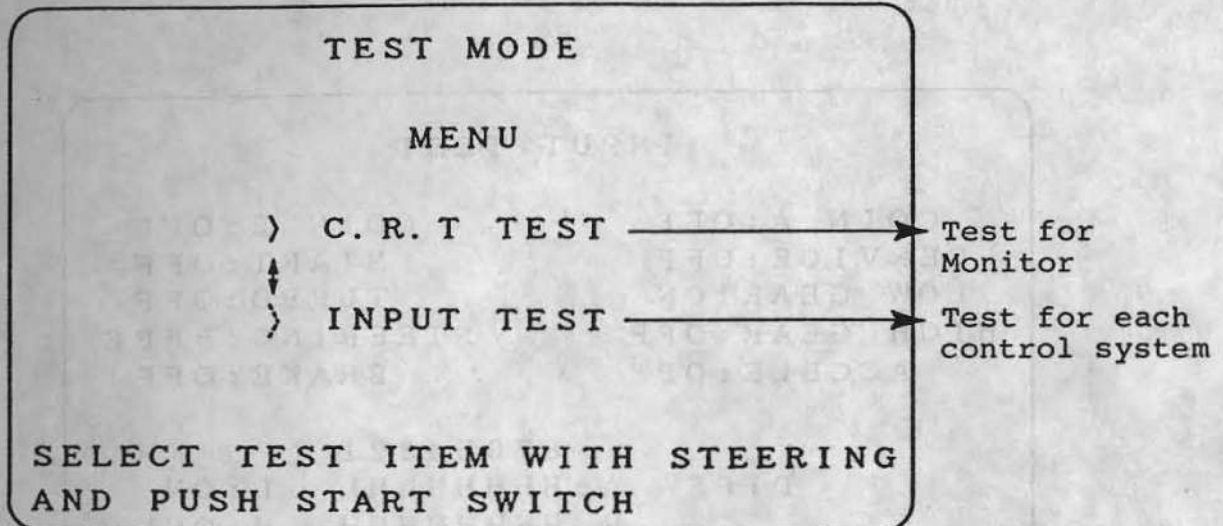
[How To Play]

- ① Insert coins.
The standard play pricing is "1 play - 1 coin". (Adjustable)
- ② Press the start button.
Criminal's car is indicated. (Round Start Attract Screen)
When this screen finished, the game starts.
- ③ A game includes 5 stages. First, catch up the criminal's car before the time reaches "0".
When reaching the criminal's car, the time is extended.
So, dash yourselves against the criminal's car and arrest the criminal before the time reaches "0" again.

- ④ The distance to the criminal's car is displayed on the right part of the screen and the damage of the criminal's car is displayed on the left part of the screen.
- ⑤ When the turbo switch is pressed, the player's car is explosively accelerated by the turbo power for a given time. (The number of turbo-usable times is displayed on the lower left part of the screen, and this number is reset every time when each stage is cleared. Note that the remaining number of turbos in the previous stage is not added to that for the next stage.)
- ⑥ The game ends when the time reaches "0", or 5 stages have been cleared.
- ⑦ When the game is over, if the score is ranked in the 10th place or higher, the name registration can be made. (In this case, select letters by using the steering wheel, and register them by using the accelerator or the turbo switch.)

Test Mode

- o By turning on the DIP switch A-3 located on the main PC board and by turning on the power switch, the screen changes to the test mode menu.

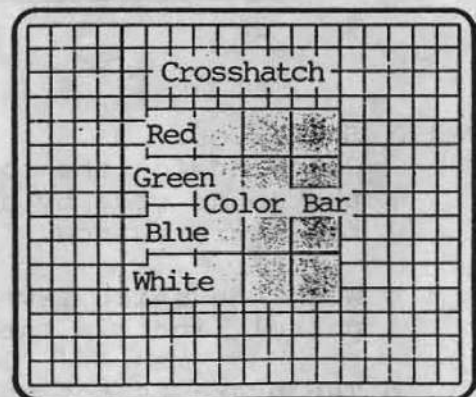


- o When changing to each test item, select an item by using the steering wheel, then press the start button.

1) C.R.T. Test

As the crosshatch and color bars are displayed on the screen, the screen condition, colors and brightness can be adjusted.

(As for the adjustments of the TV monitor, see the section 8.)



- o When the turbo switch is pressed, the screen returns to the test mode menu.

Input Test

- o Checking for each switch and control system can be done by this test.
- o When the turbo switch is pressed, the screen returns to the test mode menu.

INPUT TEST

COIN A:OFF	COIN B:OFF
SERVICE:OFF	START:OFF
LOW GEAR:ON	TURBO:OFF
HIGH GEAR:OFF	STEERING:FFFE
ACCELE:OFF	BRAKE:OFF

87654321
DIPSW A:HHHHLHL L:ON
B:HHHHHHH H:OFF

SOUND CODE:1F
RAM OK !

PUSH TURBO SWITCH TO RETURN
TO MENU MODE

Note: Sound Code

Checking for the sound output can be done when selecting the sound code by using the steering wheel and by pressing the start button.

- o When the shift lever is turned to the "H" side, the patrol light is turned on.
- o The brake is not used.

CHASE HQ

EDGE CONNECTOR

				COMPONENT SIDE	
GROUND	BLK	A	1	BLK	GROUND
GROUND	BLK	B	2	BLK	GROUND
+5v	PNK	C	3	PNK	+5v
+5v	PNK	D	4	PNK	+5v
-5v	VIO	E	5	VIO	-5v
+13v	RED/BLK	F	6	ORG	+12v
	KEYWAY	H	7	KEYWAY	
METER B	WHT/YEL	J	8	WHT/ORG	METER A
		K	9		
		L	10	GRY/WHT	SOUND R +
		M	11	GRY/BLK	SOUND R -
VOLUME 1	YEL/BRN	N	12	YEL/RED	VOLUME 2
		P	13	YEL/GRN	VOLUME 3
SERVICE	RED/ORG	R	14		
BRAKE	BLU/YEL	S	15		
COIN B	YEL/BLK	T	16	ORG/BLK	COIN A
		U	17		
		V	18	ORG/RED	TURBO
START	RED/BLU	W	19	YEL/VIO	CENTRE
ACCEL.	YEL/BLU	X	20	PNK/BLK	SHIFT
		Y	21		
PT LIGHT L	WHT/BLU	Z	22	WHT/VIO	PT LIGHT R
		AA	23		
		AB	24		
		AC	25		
HANDLE -	GRN/BRN	AD	26	ORG/BLU	HANDLE +
GROUND	BLK	AE	27	BLK	GROUND
GROUND	BLK	AF	28	BLK	GROUND

ELECTROCOIN AUTOMATICS LTD

PART No 12164

ELECTRONIC CREDIT BOARD

PINOUT INFORMATION

PIN	COLOUR	FUNCTION
1.	YEL/BLK	10p MICROSWITCH OR N.P.N. OPEN COLLECTOR INPUT.
2.	N/C	10p MICROSWITCH OR N.P.N. OPEN COLLECTOR INPUT.
3.	WHT/BLU	10p PNP INPUT (MS 111/SENTINEL)
4.	N/C	20p INPUT (MICROSWITCH)
5.	WHT/GRN	20p INPUT (MS 111/SENTINEL)
6.	N/C	50p INPUT (MICROSWITCH)
7.	WHT/BLK	50p INPUT (MS 111/SENTINEL)
8.	N/C	£1 INPUT (MICROSWITCH)
9.	WHT/YEL	£1 INPUT (MS 111/SENTINEL)
10.	BLU/BLK	0 VOLTS (10p INHIBIT)
11.	BLU/YEL	0 VOLTS (20p INHIBIT)
12.	BLU/ORG	0 VOLTS (50p INHIBIT)
13.	BLU/WHT	0 VOLTS (£1 INHIBIT)
14.	BLACK	0 VOLTS
15.	BLACK	0 VOLTS
16.	N/C	0 VOLTS
17.	N/C	0 VOLTS
18.	ORANGE	+ 12v DC
19.	ORANGE	+ 12v DC
20.	ORANGE	+ 12v DC
21.	BLU/VIO	POSITIVE COMMON FOR MS111/SENTINEL
22.	WHT/RED	METER OUTPUT (NPN OPEN COLLECTOR)
23.	ORG/BLK	CREDIT OUTPUT (NPN OPEN COLLECTOR)
24.	N/C	0 VOLTS

NOTES:-

- 1) USE 0 VOLTS FOR NEGATIVE COMMON IF PLUGGING INTO MS 125 SEPERATOR UNIT.
- 2) ENSURE THAT THERE IS NO COIN METER CONNECTED ACROSS ANY INPUT, eg, VIA A MICROSWITCH OR AN ADAPTOR CARD.

NOTE:- ON MOST UNIGAME ADAPTORS PIN 10 IS LINKED TO PIN 24, AND PIN 11 IS LINKED TO PIN 25, THESE LINKS SHOULD BE REMOVED COMPLETELY. THEN SHORT PIN 11 TO PIN 12 ON THE ADAPTOR CARD. THIS THEN USES THE OUTPUT FROM THE CREDIT BOARD METER DRIVE.

- 3) THE METER WILL ALWAYS TOTAL CASH IN 10p UNITS REGARDLESS OF ANY CREDIT SETTING.
- 4) MORE THAN ONE COIN MECH MAY BE FED INTO THE PCB.

e.g. A) S10 (UP TO FOUR)
 B) S10 X MS 111
 C) S10 X MS 125
 D) S10 X SENTINEL

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- 5) MOST CREDIT BOARDS ARE SUPPLIED WITH A STANDARD CREDIT LOOM.
(PART No. 16315) FITTED WITH A MALE 6 WAY AMP MATE 'N' LOCK
CONNECTOR. PINOUTS ARE SHOWN BELOW.

PIN No	COLOUR	FUNCTION
1	ORANGE	+12v DC SUPPLY
2	PINK	+5v DC (LAMP SUPPLY)
3	N/C	
4	WHT/RED	TO COIN METER
5	BLACK	0v DC
6	ORG/BLK	COIN INPUT TO GAME PCB

DIP SWITCH SETTINGS (VERSION 2-0)

PRICE OF PLAY	SW 6	SW7	SW8
10p	ON	ON	ON
20p	OFF	ON	ON
30p	ON	OFF	ON
40p	OFF	OFF	ON
50p	ON	ON	OFF
60p	OFF	ON	OFF
£1	ON	OFF	OFF
£2	OFF	OFF	OFF

SWITCH 5	ON	1 PULSE PER CREDIT
	OFF	2 PULSES PER CREDIT

BONUS GAMES	SW1	SW2
NONE	ON	ON
FOR EVERY 50p	OFF	ON
FOR EVERY £1	ON	OFF
FOR EVERY £2	OFF	OFF

PLEASE NOTE:- A BONUS GAME WILL ONLY BE AWARDED IF THE GAME PRICE OF PLAY IS LESS THAN THE BONUS VALUE SET. ALSO IF A MIXTURE OF COINS ARE INSERTED, THE TIME INTERVAL BETWEEN COINS INSERTED MUST BE OF LESS THAN 5 SECONDS FOR THE BONUS TO BE AWARDED.

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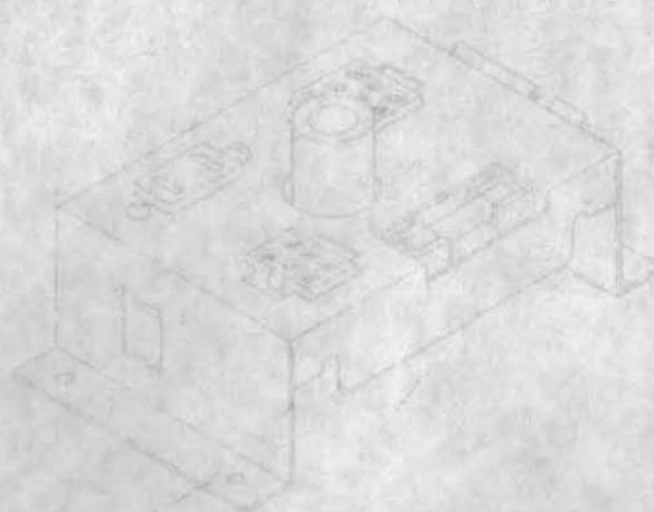
EXAMPLES OF SETTINGS. (FOR £1 INSERTED)

PRICE OF PLAY	BONUS GAMES	CREDITS	BONUS	TOTAL
10p	OFF	10	NONE	10
10p	FOR EVERY 50p	10	2	12
10p	FOR EVERY £1	10	1	11
20p	OFF	5	NONE	5
20p	FOR EVERY 50p	5	2	7
20p	FOR EVERY £1	5	1	6
30p	OFF	3	NONE	3
30p	FOR EVERY 50p	3	2	5
30p	FOR EVERY £1	3	1	4
40p	OFF	2	NONE	3
40p	FOR EVERY 50p	2	2	4
40p	FOR EVERY £1	2	1	3
50p	OFF	2	NONE	2
50p	FOR EVERY £1	2	1	3

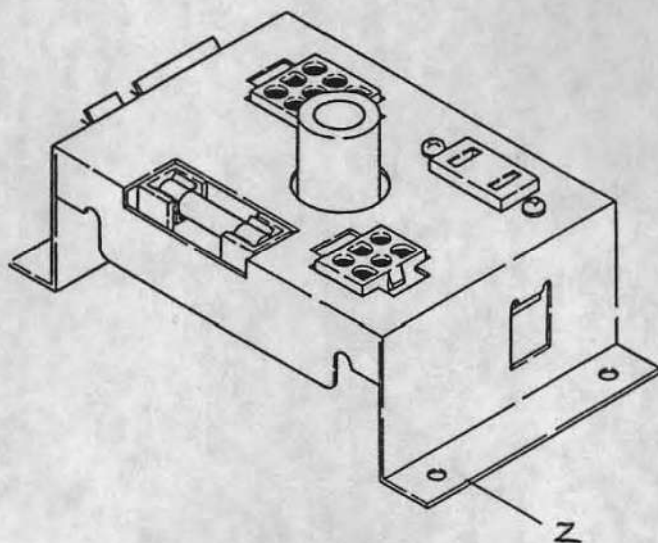
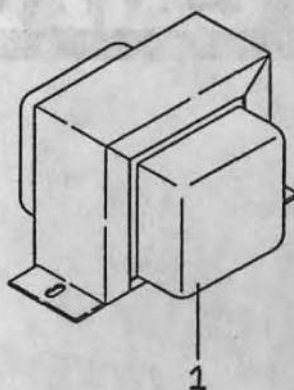
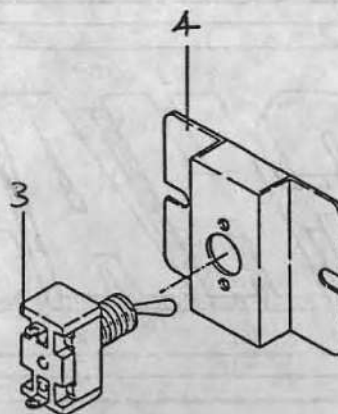
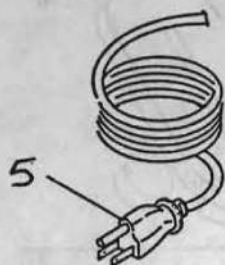
CHASE H.Q.TM

UP RIGHT

PARTS CATALOGUE



● CABINET ASSY



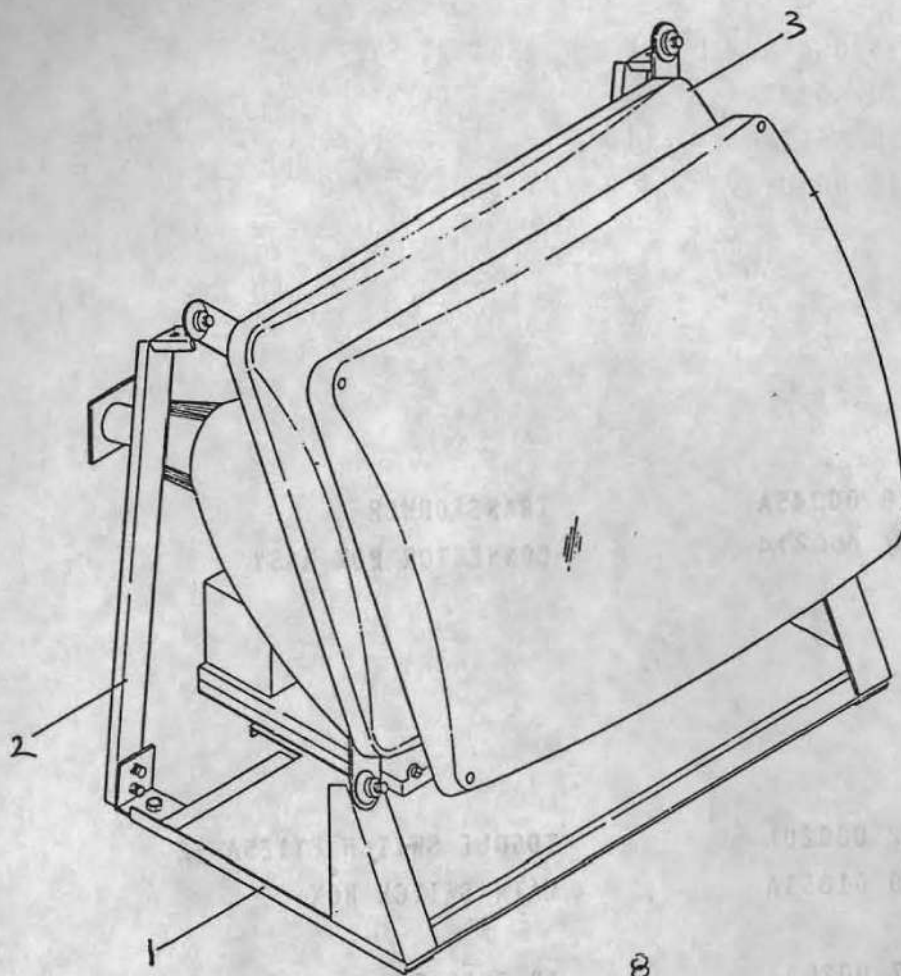
ITEM	PARTS NO.	DESCRIPTION
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1	C10 00349A	TRANSFORMER
2	M41 00027A	CONNECTOR BOX ASSY

3	C02 00020A	TOGGLE SWITCH ET125A-12
4	E30 01861A	MAIN SWITCH BOX

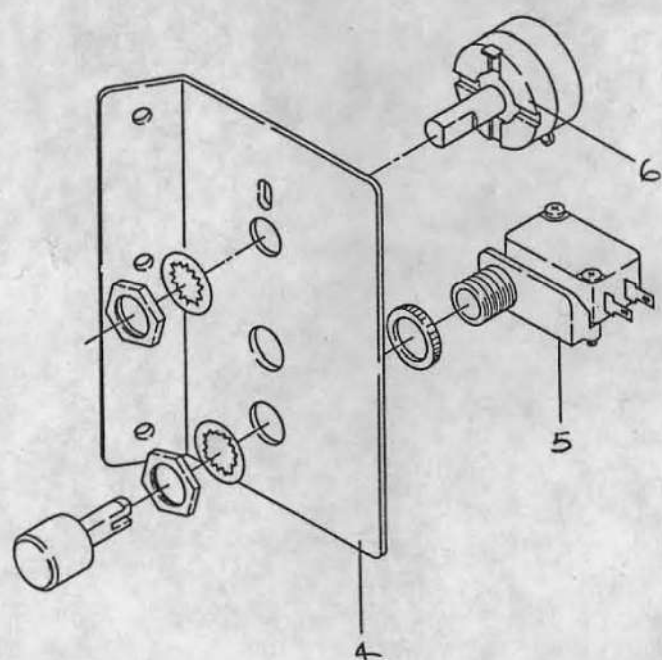
5	C07 00208A	AC CORD 3C
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●VIDEO & CENTRAL CONTROL ASSY



SERVICE
S W.

SOUND
VOLUME



ITEM	PARTS NO.	DESCRIPTION
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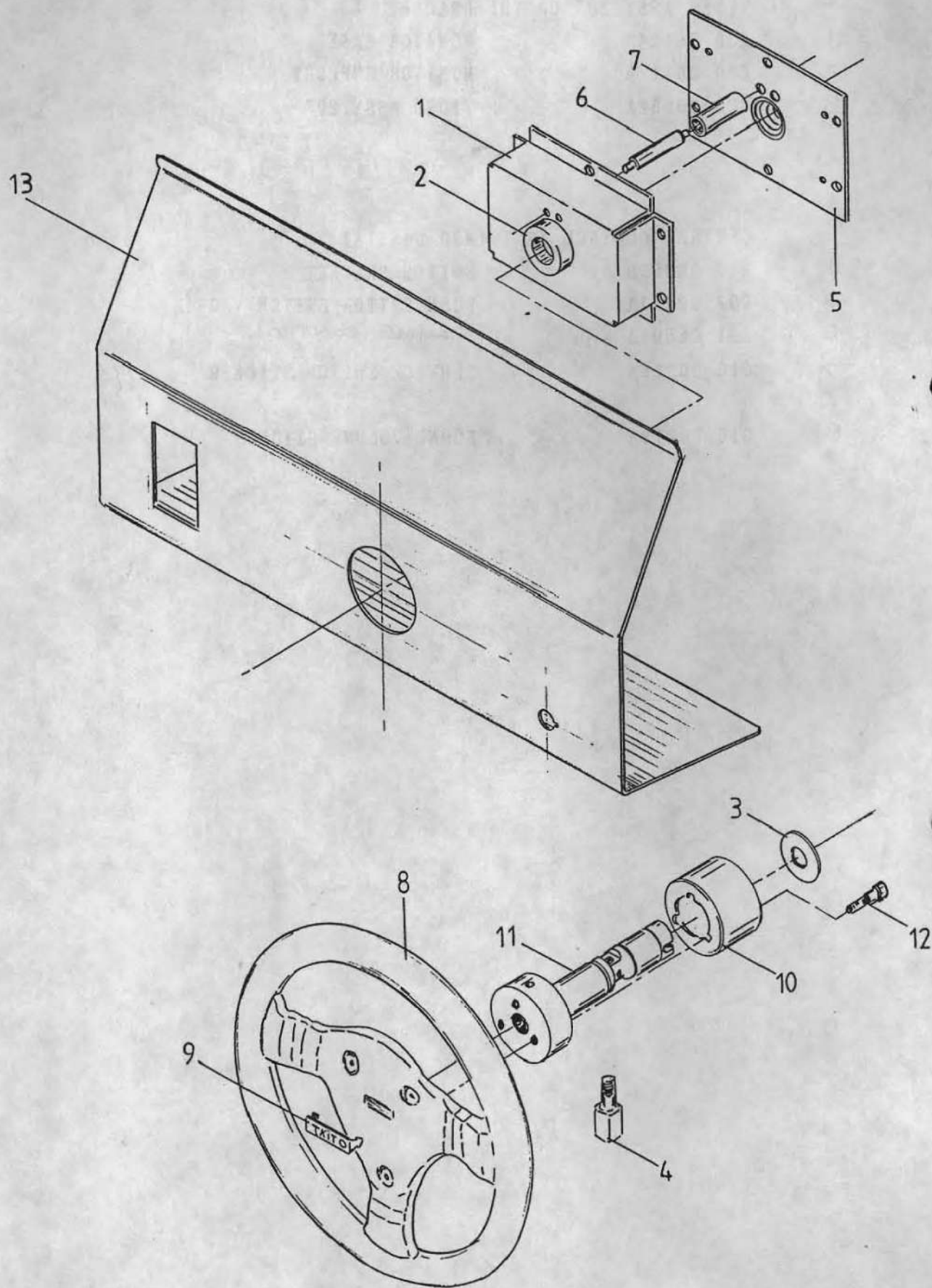
VIDEO ASSY 20" ON THE BRACKET

1	E30 06124A	MONITOR BASE
2	E30 06117A	MONITOR SUPPORT
3	M08 00082A	VIDEO ASSY 20"

CENTRAL CONTROL ASSY (M90 01531A)

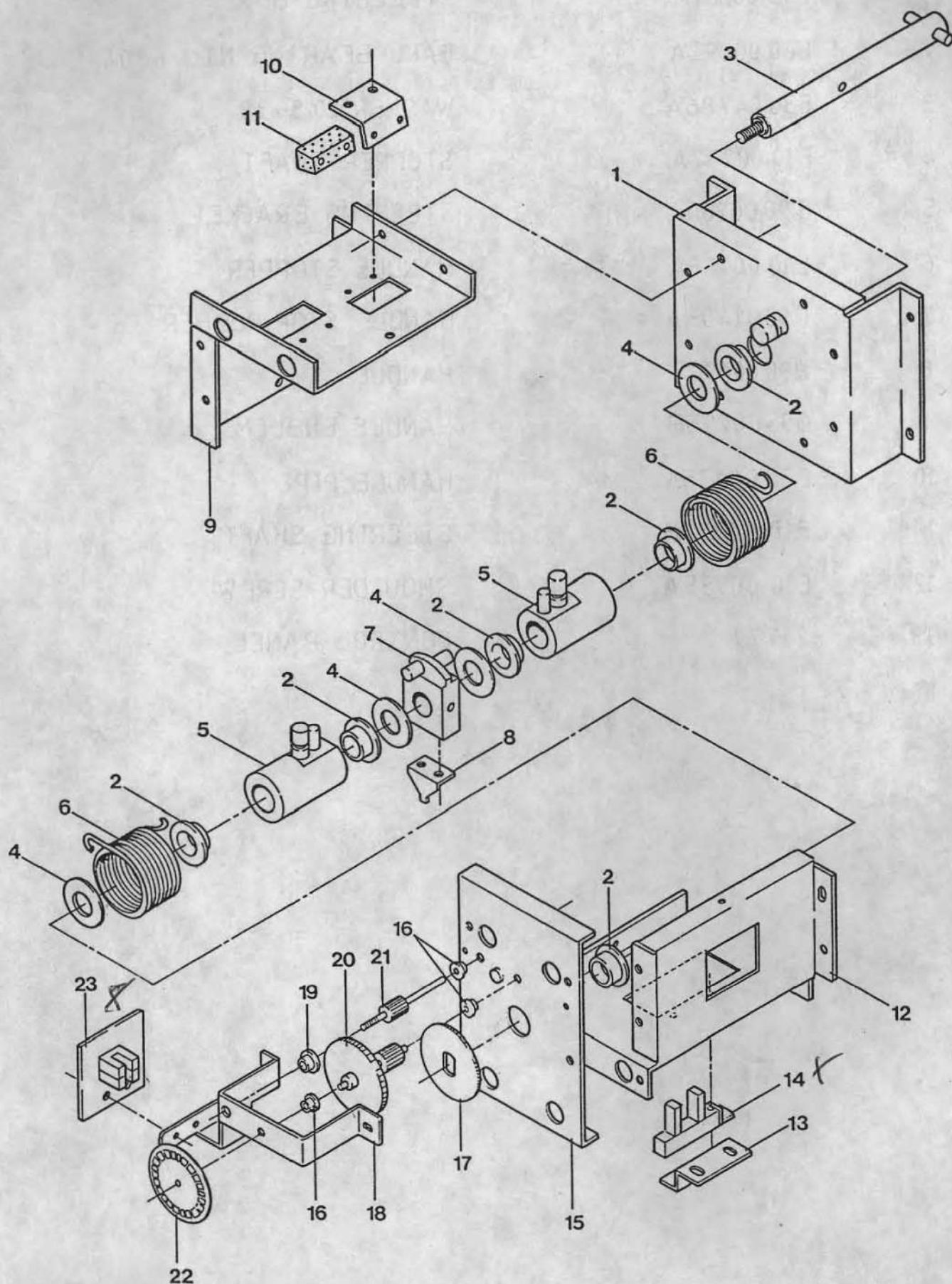
4	E30 05055B	SWITCH BRACKET
5	C02 00033A	PUSH BUTTON SWITCH VAQ-4R
6	A21 06601A	VOLUME CONTROL
7	G10 00186A	SERVICE SWITCH STICKER
8	G10 00219A	SOUND VOLUME STICKER

● CONTROL PANEL ASSY



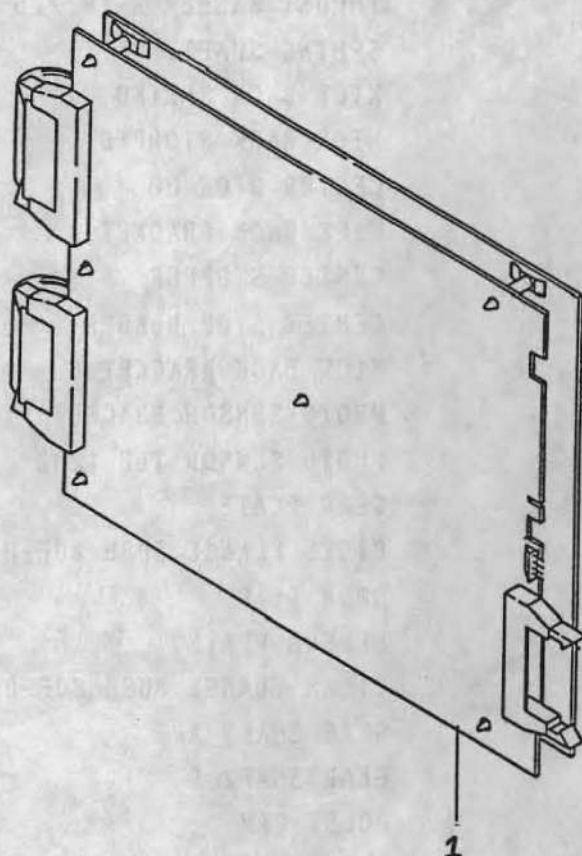
ITEM	PARTS NO.	DESCRIPTION
1	E90 00261A	STREERING BOX
2	E60 00095A	BALL BEARING NTN-6804
3	E30 04786A	WASHER 20.5×38
4	E10 00732A	STOPPER SHAFT
5	E 90 00260A	STEERING BRACKET
6	E10 00755A	HANDLE STOPPER
7	F 90 01403 A	HANDLE STOP RUBBER
8	H90 00192A	HANDLE
9	G95 00285B	HANDLE ENBLEM
10	E30 06135A	HANDLE PIPE
11	E10 00826B	STEERING SHAFT
12	E10 00735A	SHOULDER SCREW
13	20777	CONTROL PANEL

● HANDLE CONTROL ASSY



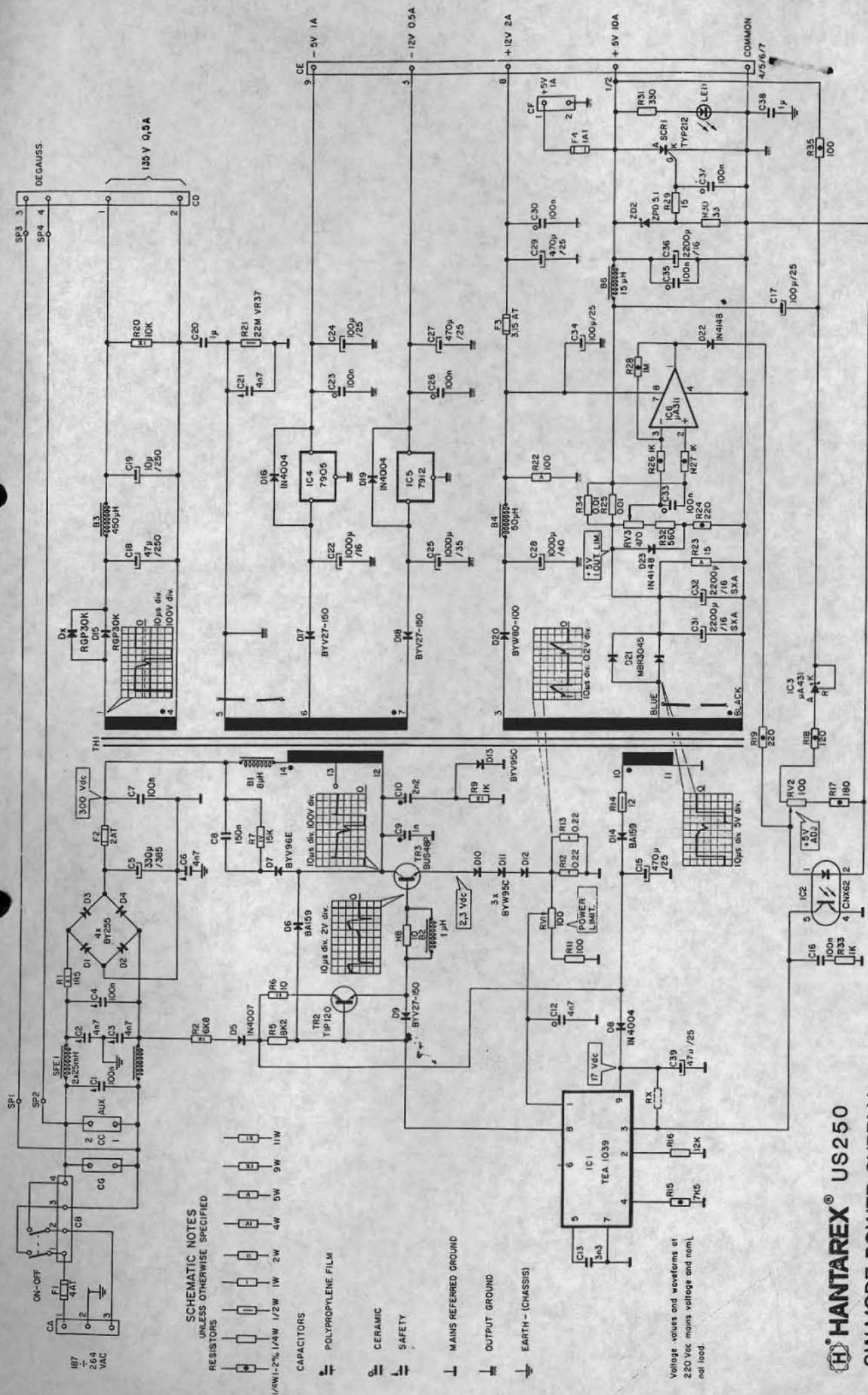
ITEM	PARTS NO.	DESCRIPTION
	HANDLE CONTROL ASSY (M01 00091A)	
1	E90 00233A	KICK BACK BASE
2	F90 01435A	OILES FLANGE BUSH 80F-1206
3	E10 00734A	KICK BACK SHAFT
4	F90 01436A	THRUST WASHER R-TW1225
5	E10 00733A	SPRING SHAFT
6	E40 00210A	KICK BACK SPRING
7	E10 00756A	KICK BACK STOPPER
8	E30 04787A	CENTER PICK UP
9	E30 04788A	KICK BACK BRACKET A
10	E30 04782A	CENTER STOPPER
11	F90 01405A	CENTER STOP RUBBER
12	E30 04789A	KICK BACK BRACKET B
13	E30 04785A	PHOTO SENSOR BRACKET
14	A90 00146A	PHOTO SENSOR TLP 1200
15	E90 00234A	GEAR PLATE
16	F90 00902A	OILES FLANGE BUSH 80F-0303
17	E70 00086A	SPUR GEAR
18	E30 04783A	SENSOR PLATE
19	F90 00644A	OILES FLANGE BUSH 80F-0404
20	E70 00087A	GEAR SHAFT A
21	E70 00088A	GEAR SHAFT B
22	F90 00877A	PULSE CAM
23	K90 00060A	PHOTO SENSOR PC BOARD ASSY

●PC BOARD



ITEM	PARTS NO.	DESCRIPTION
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1	M43 00093B	MAIN PC BOARD ASSY
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HANTAREX® US250
SW.MODE POWER SUPPLY

SCHEMATIC DIAGRAM 26/10/86

00150 VERMONT P
1984 FEB 04 1300 LSP