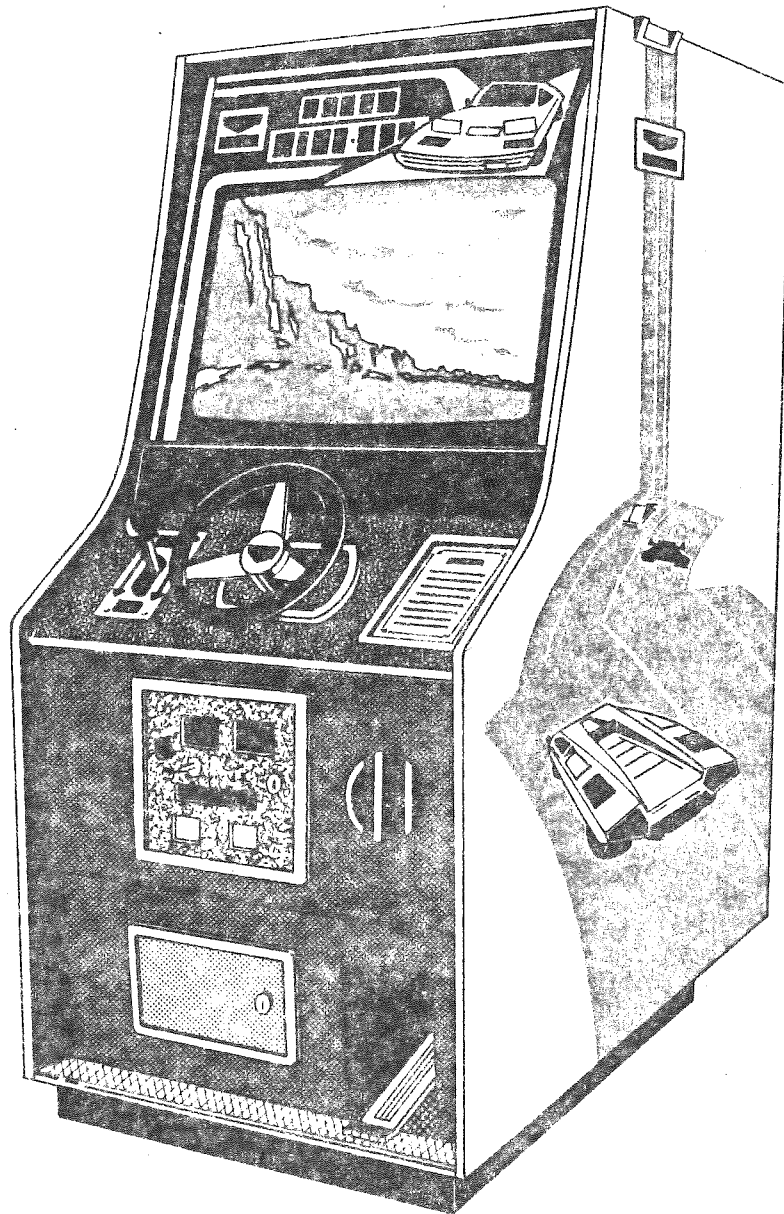


SUPER HIGH-WAY



**SERVICE INSTRUCTIONS
AND PARTS CATALOG**



TAITO CORPORATION

SWO 70011

1. Name of Part

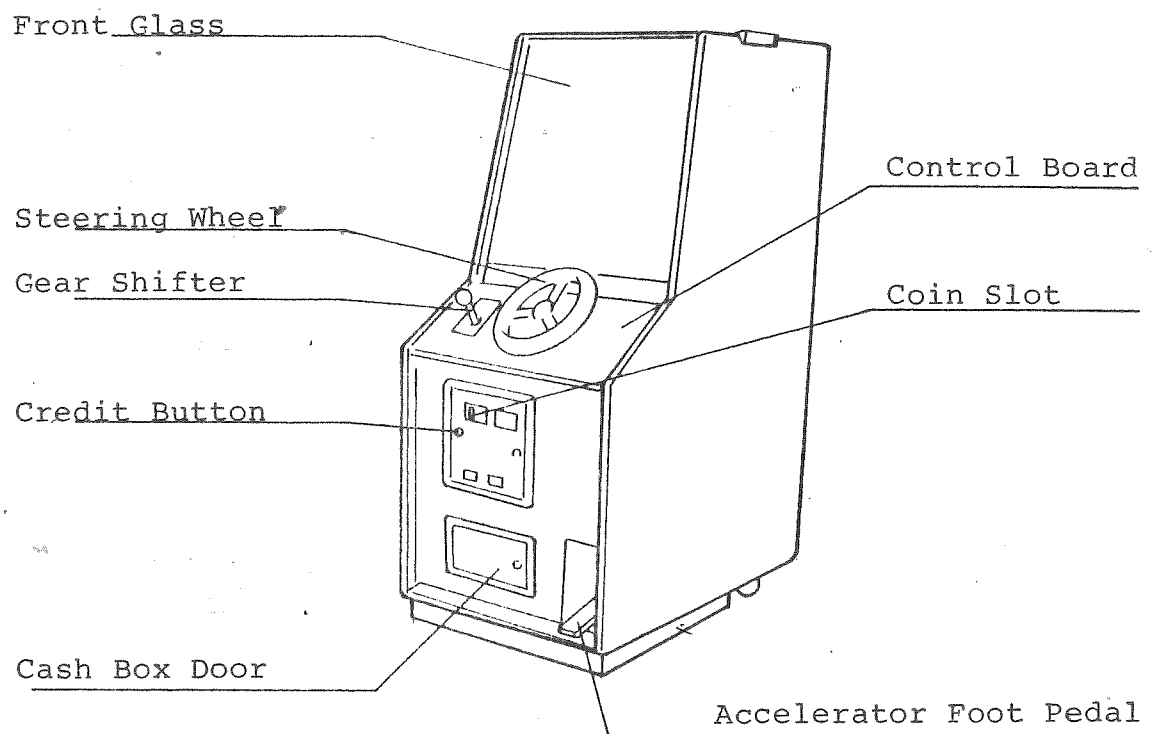


Fig. 1

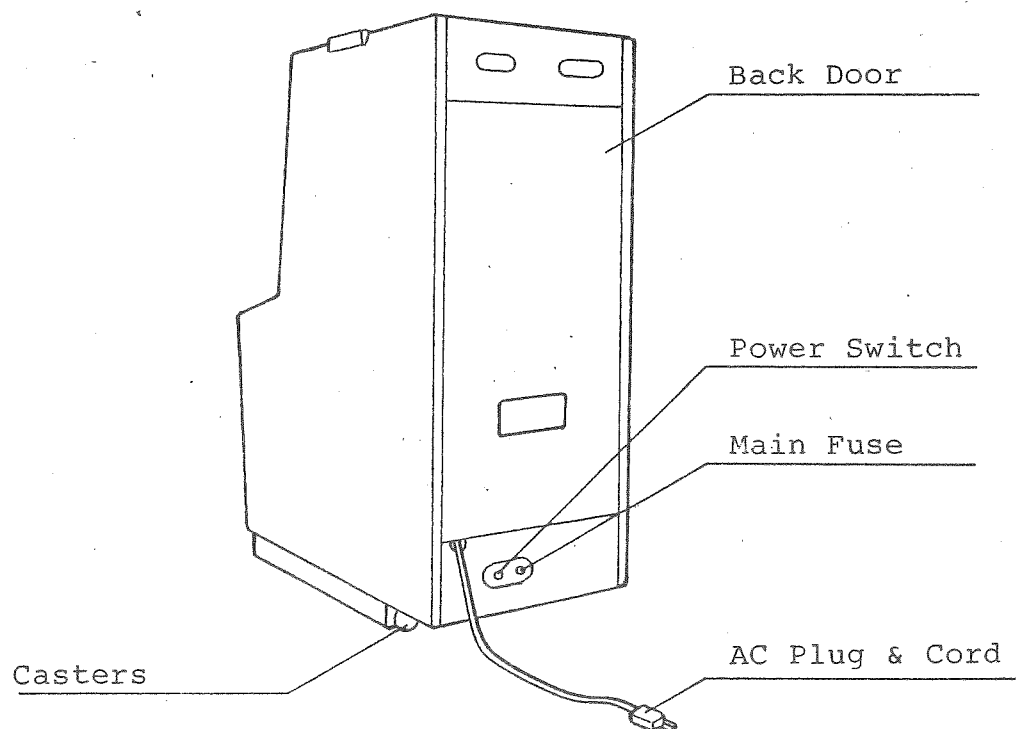


Fig. 2

2. Transportation and Installation

- ° Avoid rough handling in transportation; the picture tube is fragile.
- ° Avoid installation in location with exposure to direct sunlight or excessive heat in order to prevent the unit from rising internal temperatures.
- ° Ensure all connections to the PCB's are secure.
- ° Insert the AC plug into a proper outlet and turn the power switch on.

Note:

- ° Erroneous or partial score may appear on the screen when the machine is first switched on. This is typical of solid-state circuitry, and will correct itself automatically when the first play is started.

Warning:

- ° Taito SUPER HIGHWAY uses the latest solid-state circuitry, including a CPU and IC's, for long life, however, as with sophisticated electronic equipment certain precautions must be observed to avoid damage.
 - (1) Do not attempt to service with ordinary testing device, since the internal voltage of the testing device may cause damage to the solid-state circuitry.
 - (2) Never connect or disconnect any of the solid-state modules while the power is on..

3. Playing Instructions

- One-player driving game.
- Put the speed shift into the "LOW" position to start and after crashing. The game does not start in the "HIGH" position.
- Inserting a coin initiates game play; a flagman appears on the screen, and when the flagman brings down the flag and disappears from the screen, the game starts.
- The speedometer is displayed on the lower side of the screen. Shift into the "HIGH" position after reaching 40 MPH. (Timing of changing the speed shift will be displayed on the screen.)
- Recommended curve speed in MPH's will be displayed on the screen.
- The player's object is to keep the car within the pylon boundaries of the track and to go as fast as possible. The faster the player drives, the more points he scores.
- The game timer begins counting down from "80", and when it reaches "0", the game ends.
- The playing time will be extended by "40" when the score of 2.50 is reached.

Game Action:

- "HIGH SCORE" and "PREVIOUS (PLAYER'S) SCORE" are displayed on the screen.
- If the player drives only in the "LOW" position, he can not make a good score.
- The credit system is usable. When a credit is established, the words "PUSH BUTTON" are displayed on the screen. In that case, push the credit button to start the game credited.
- Player's skill levels will be displayed on the lower side of the screen.
- Play pricing (number of plays/number of coins), game timer, and playing instructions (English, French, German, or Spanish) displayed on the screen can be selected by setting the option switches located on the game PCB.
- During playing, sound of idling, running, slipping, and crashing will be heard from the game cabinet speaker.

4. Adjustments on Game P.C. Board

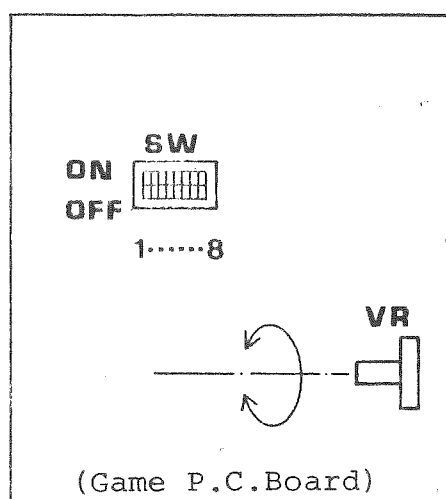


Fig. 3

Location of
Switches (SW1-8) and
Volume Control (VR)

° Price Per Game Options Settings

SWITCH POSITION		PLAY PRICE	
SW1	SW2	COIN(S)	PLAY(S)
ON	ON	1	1
OFF	ON	1	2
ON	OFF	2	1
OFF	OFF	2	3

Table 1

° Time Per Game Options Settings

SWITCH POSITION		TIME
SW3	SW4	
ON	ON	80
OFF	ON	Test
ON	OFF	99
OFF	OFF	60

Table 2

◦ Extended Time Options Settings

SWITCH POSITION		EXTENDED	
SW5	SW6	SCORE	TIME
ON	ON	2.50	40
OFF	ON	2.00	40
ON	OFF		

Table 3

◦ Instructions Language Options Settings

SWITCH POSITION		LANGUAGE
SW7	SW8	
ON	ON	English
OFF	ON	German
ON	OFF	French
OFF	OFF	Spanish

Table 4

◦ VR Sound Volume Control

5. Adjustments of Supply Voltage

If the voltage of the power supply is low, the picture on the screen sometimes flickers. In that case, change the terminal of the power transformer in the cabinet. This adjustment is obtained by using the change-over switch.

(See Fig. 4)

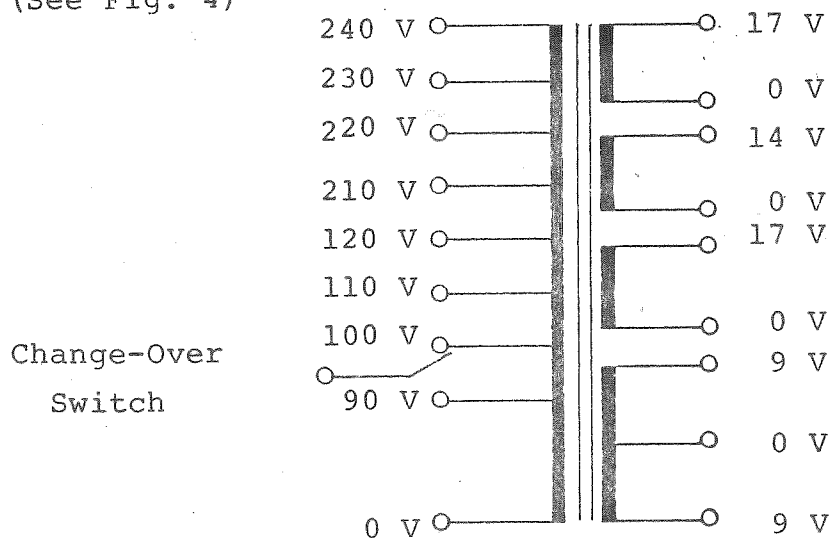


Fig. 4

6. Adjustments on TV Monitor
(See Fig. 5)

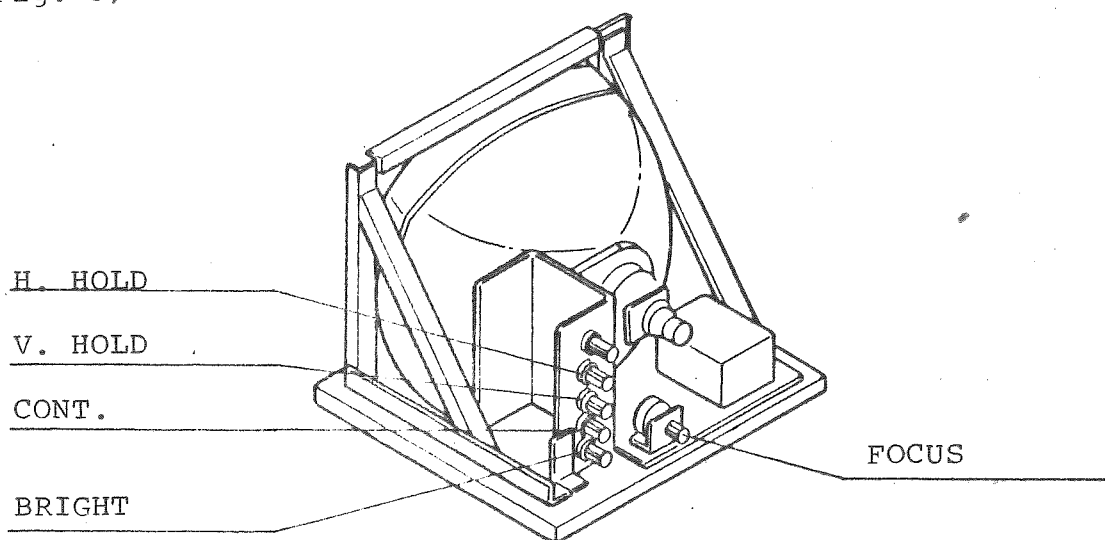


Fig. 5

The TV monitor is properly adjusted before shipping, however, if necessary, readjust it as follows:

- ° Horizontal Hold
Adjust the H. Hold control if the picture is warped or broken into diagonal lines.
- ° Vertical Hold
Adjust the V. Hold control if the picture rolls vertically across the screen.
- ° Screen Contrast and Brightness
Adjust the CONT. and the BRIGHT controls to keep the screen clear.
- ° FOCUS Screen Focus Control

Note: The TV monitor of Taito SUPER HIGHWAY is for exclusive use, therefore, it can not be replaced with that of other models.

7. Removing and Mounting Potentiometers

Steering Wheel Potentiometer:

- Open the front door. Remove four thumb nuts from the backside of the control board. Unplug the K-connector, and lift the control board.
- Loosen the set screw and remove the potentiometer together with the plate.
- Remove the plate, and unsolder the wiring.
- The turning angle of the potentiometer should be 90 degree (both clockwise and counterclockwise) from the central angle, therefore, mount a new potentiometer so as to be set the shaft of the new potentiometer to the central angle.

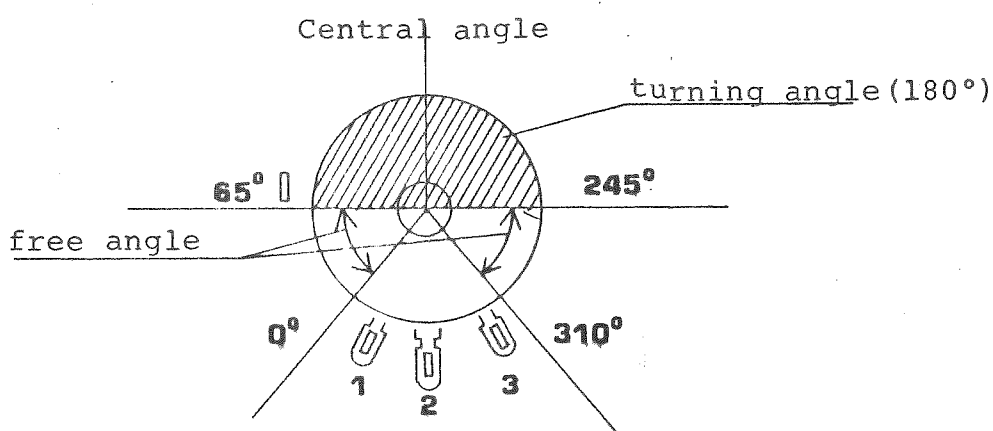


Fig. 6

Accelerator Mechanism Potentiometer:

- Open the back door or lift the control board.
- Loosen the set screw and remove the potentiometer together with the plate.
- Remove the plate and unsolder the wiring.
- Turn the shaft of a new potentiometer extremely clockwise and turn it back approximately .5 degree.
- Mount the plate and solder the wiring.
- Turn the power switch on, then, turn the service switch on.
- Adjust the idling sound within the range of the said 5 degree.

To mount the new potentiometer, follow the above preceding steps in the reverse order.

8. Displaying Part on TV Monitor

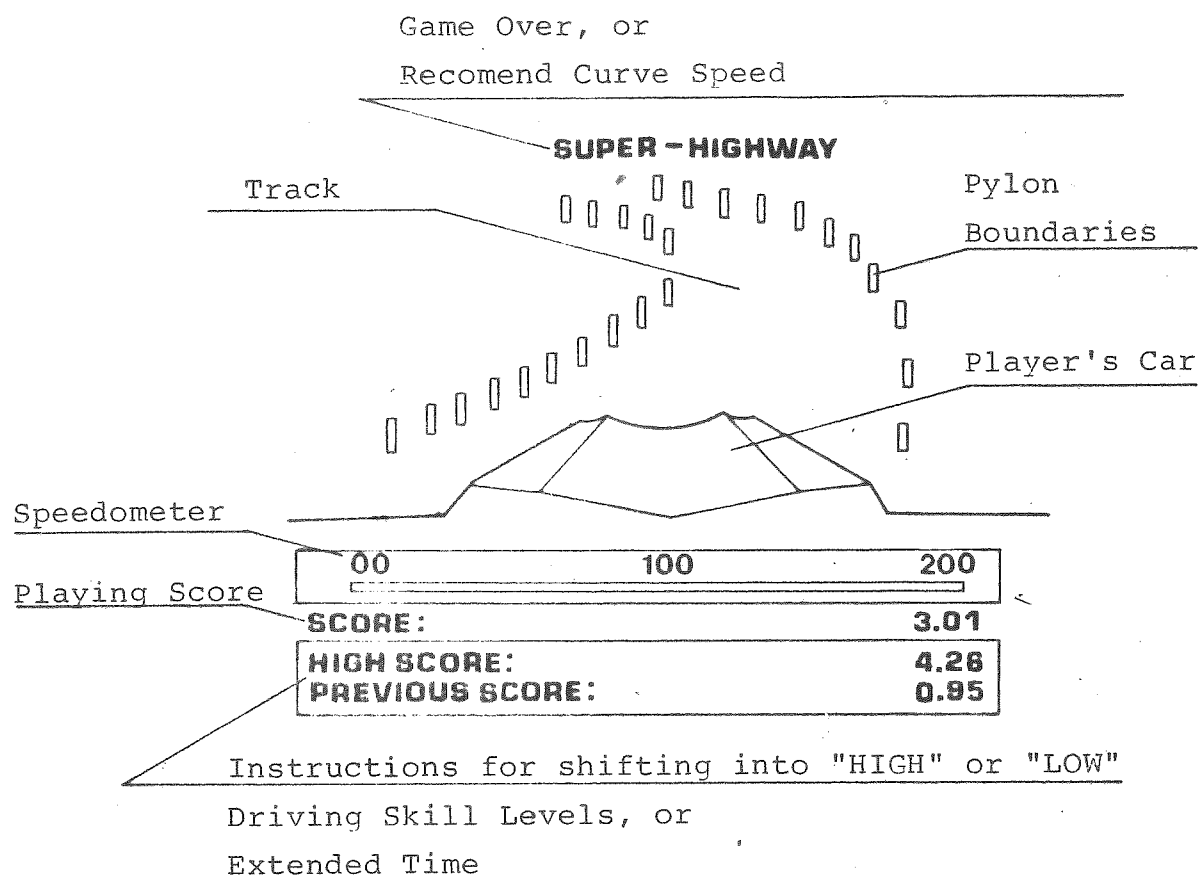
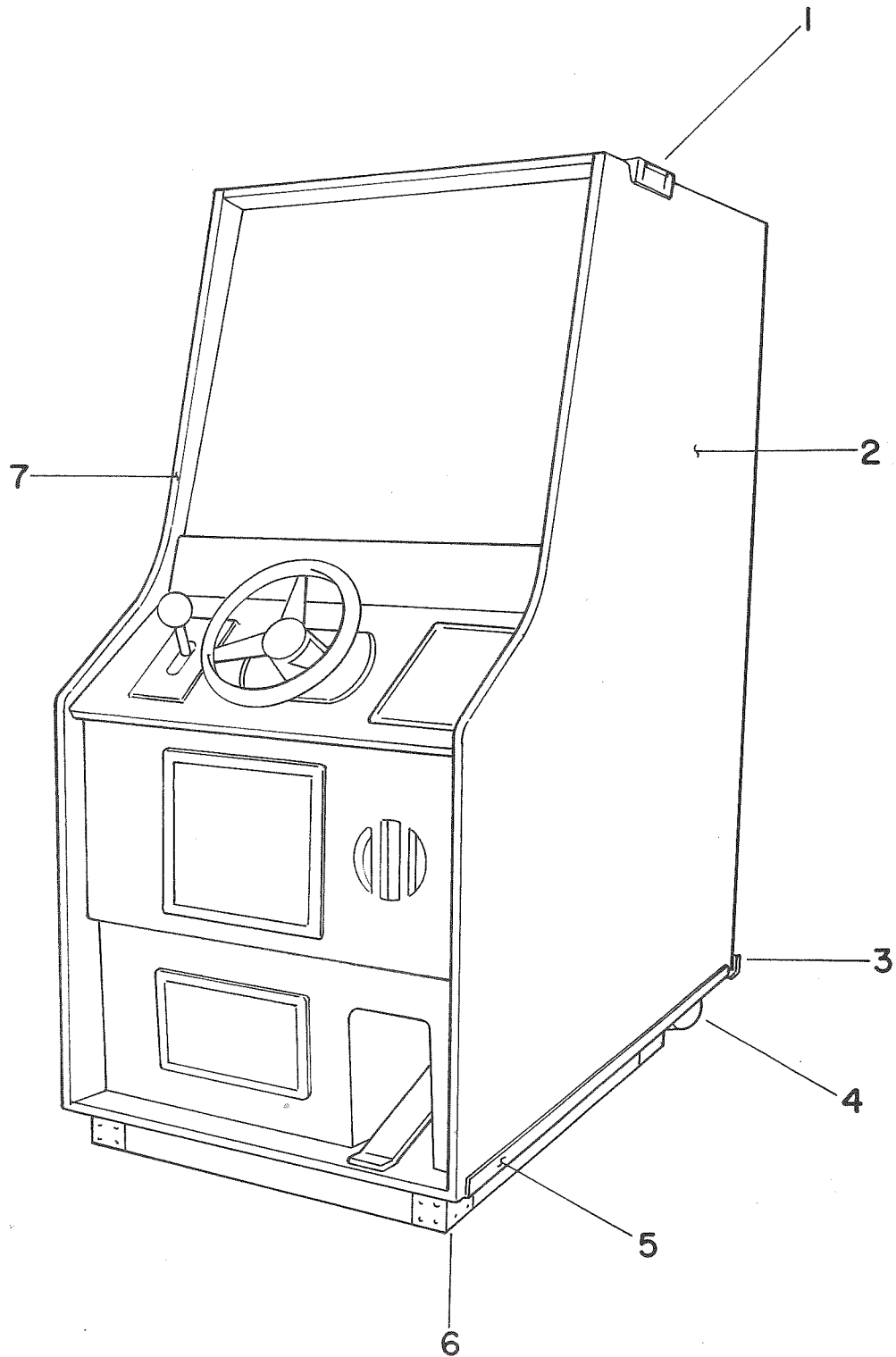


Fig. 7

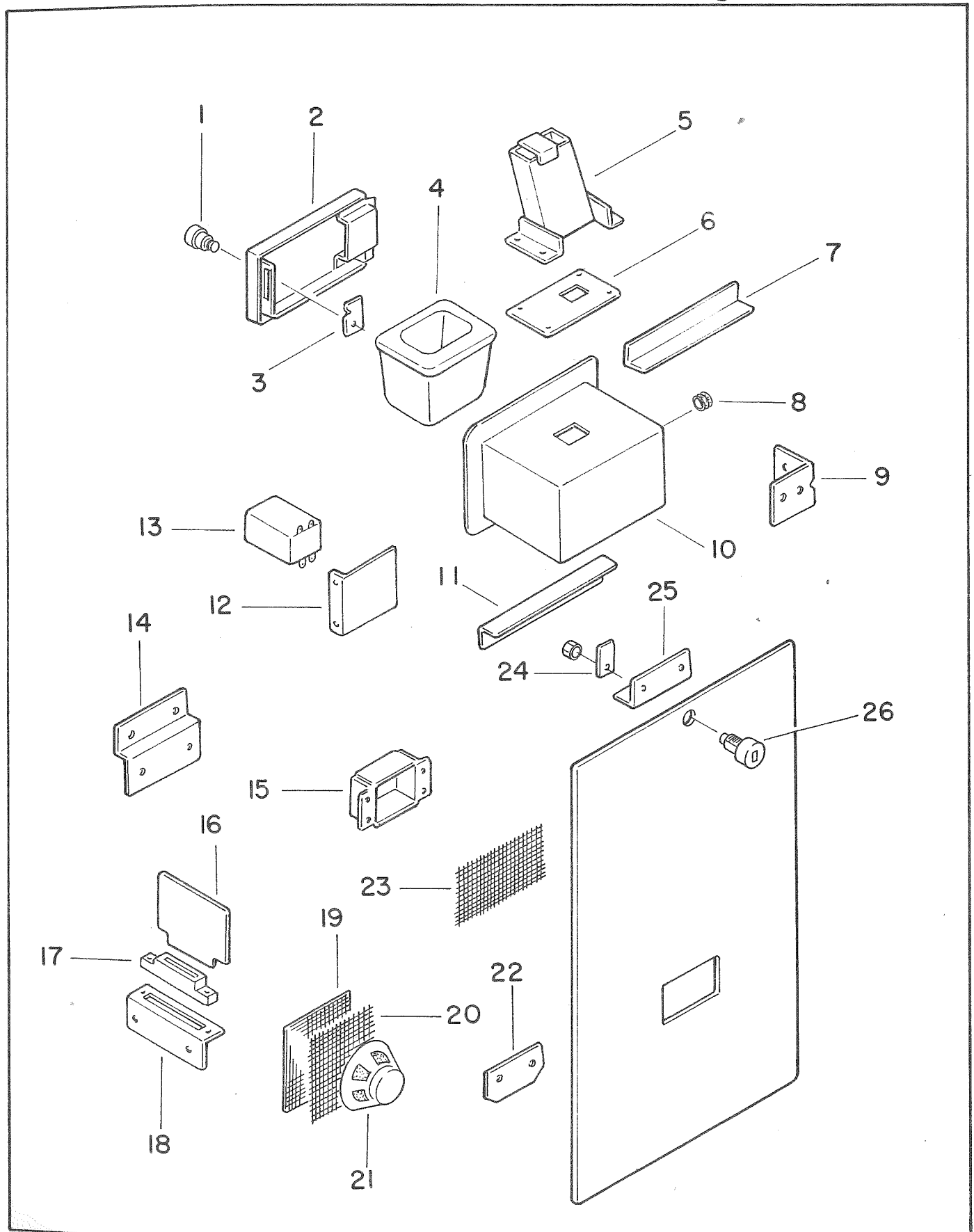
CABINET ACCESSORY ASS'Y

See page 17



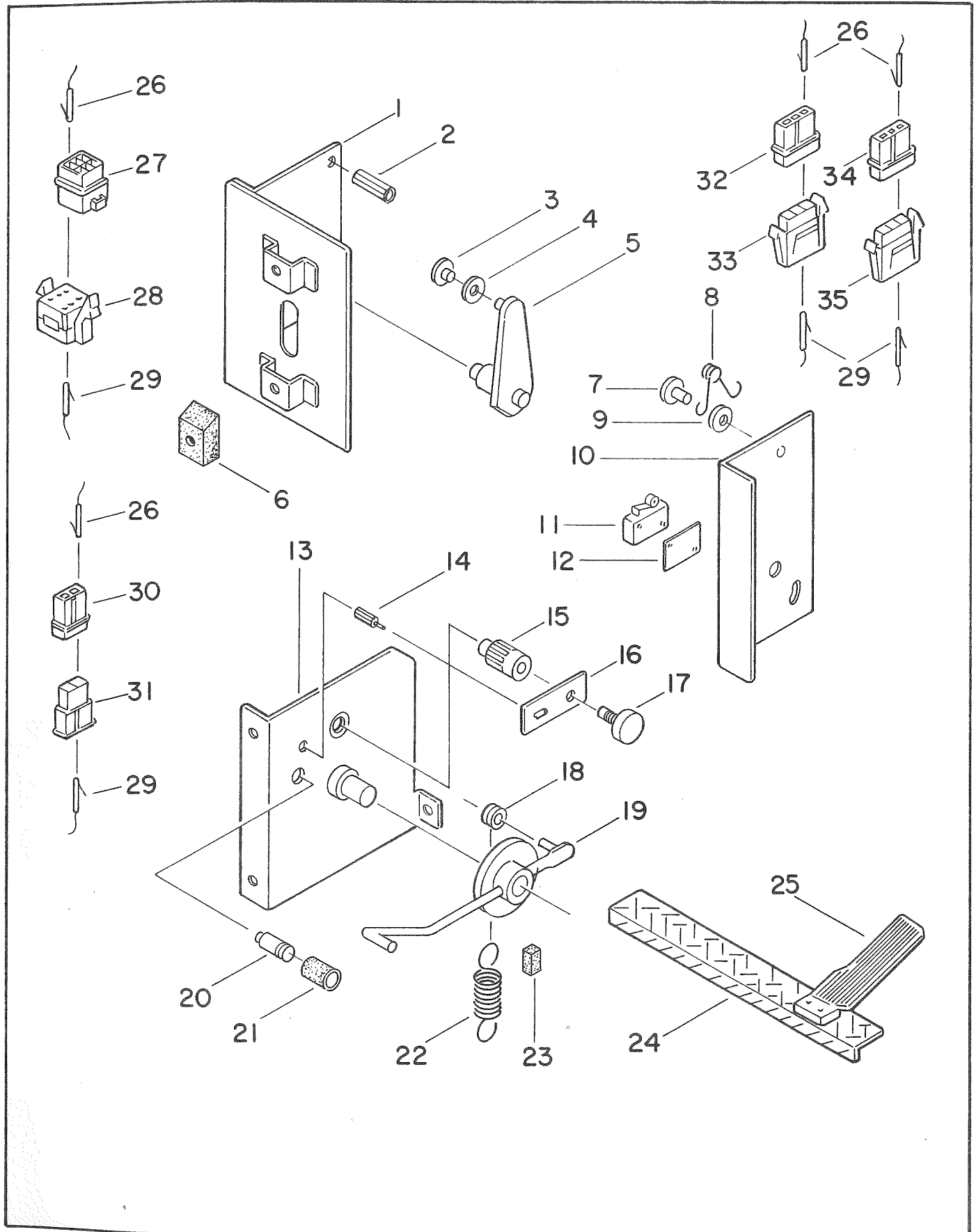
CABINET ASS'Y

See pages 17,18



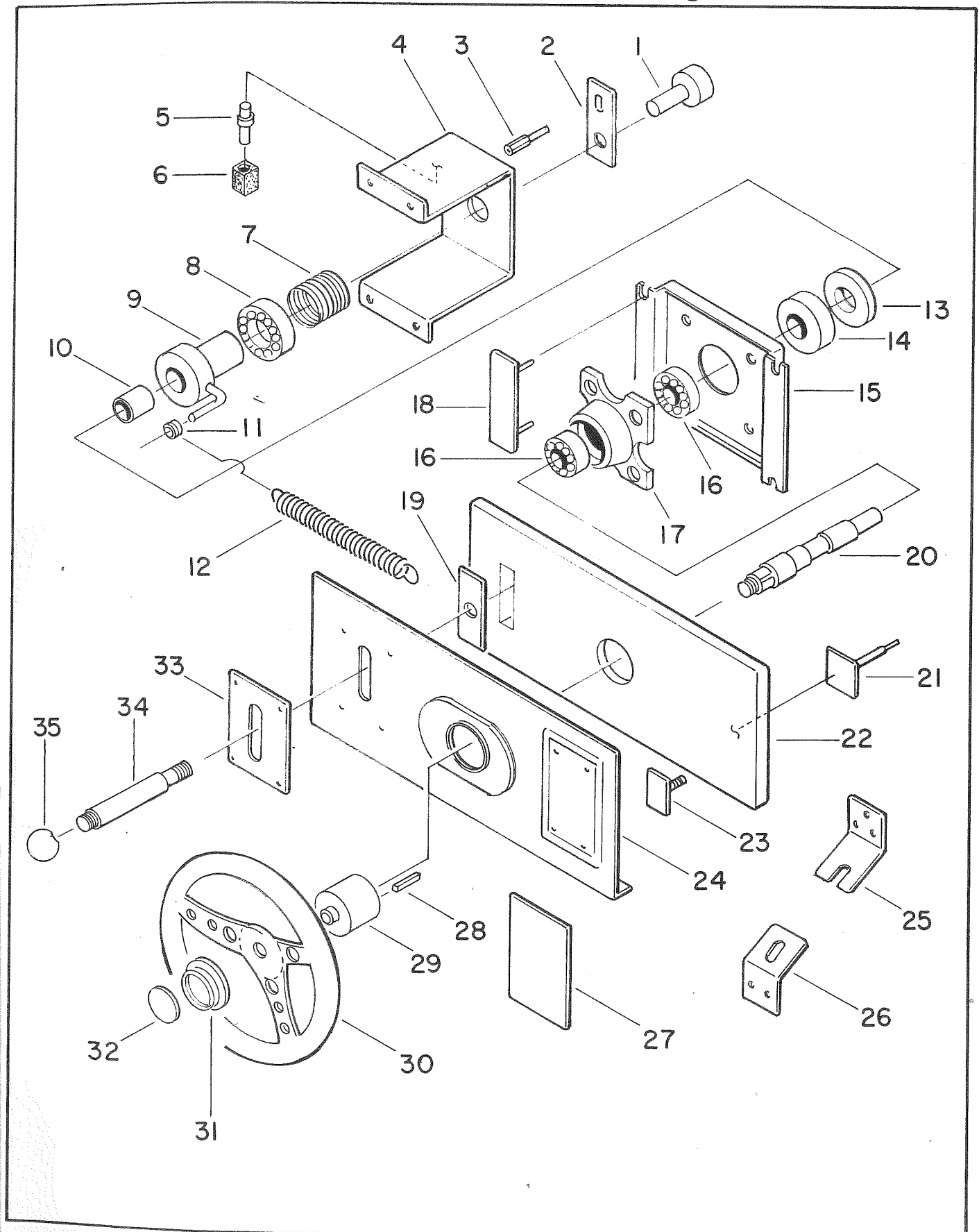
ACCELERATOR ASS'Y

See pages 18, 19, 20



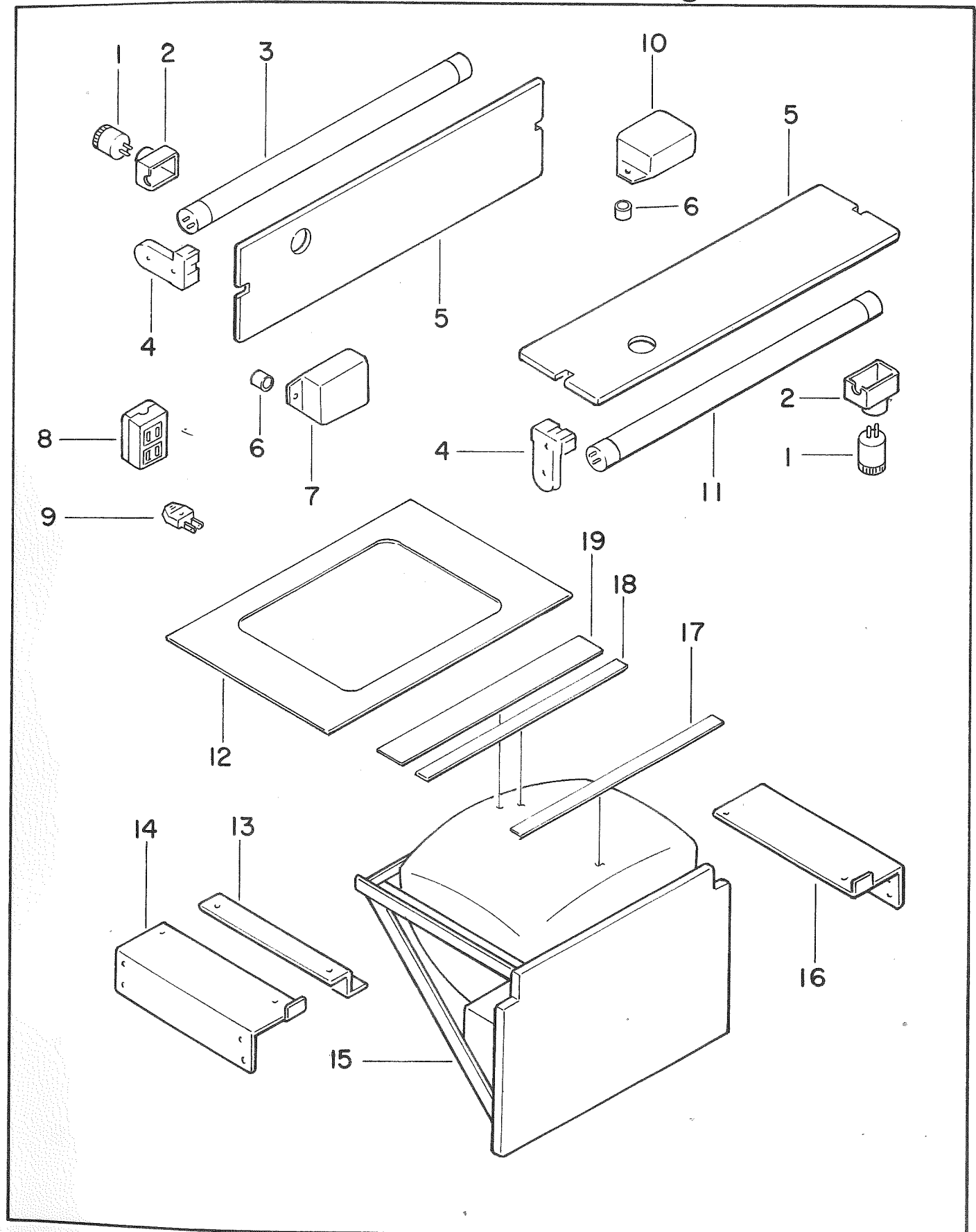
DASH BOARD ASS'Y

See pages 20,21,22



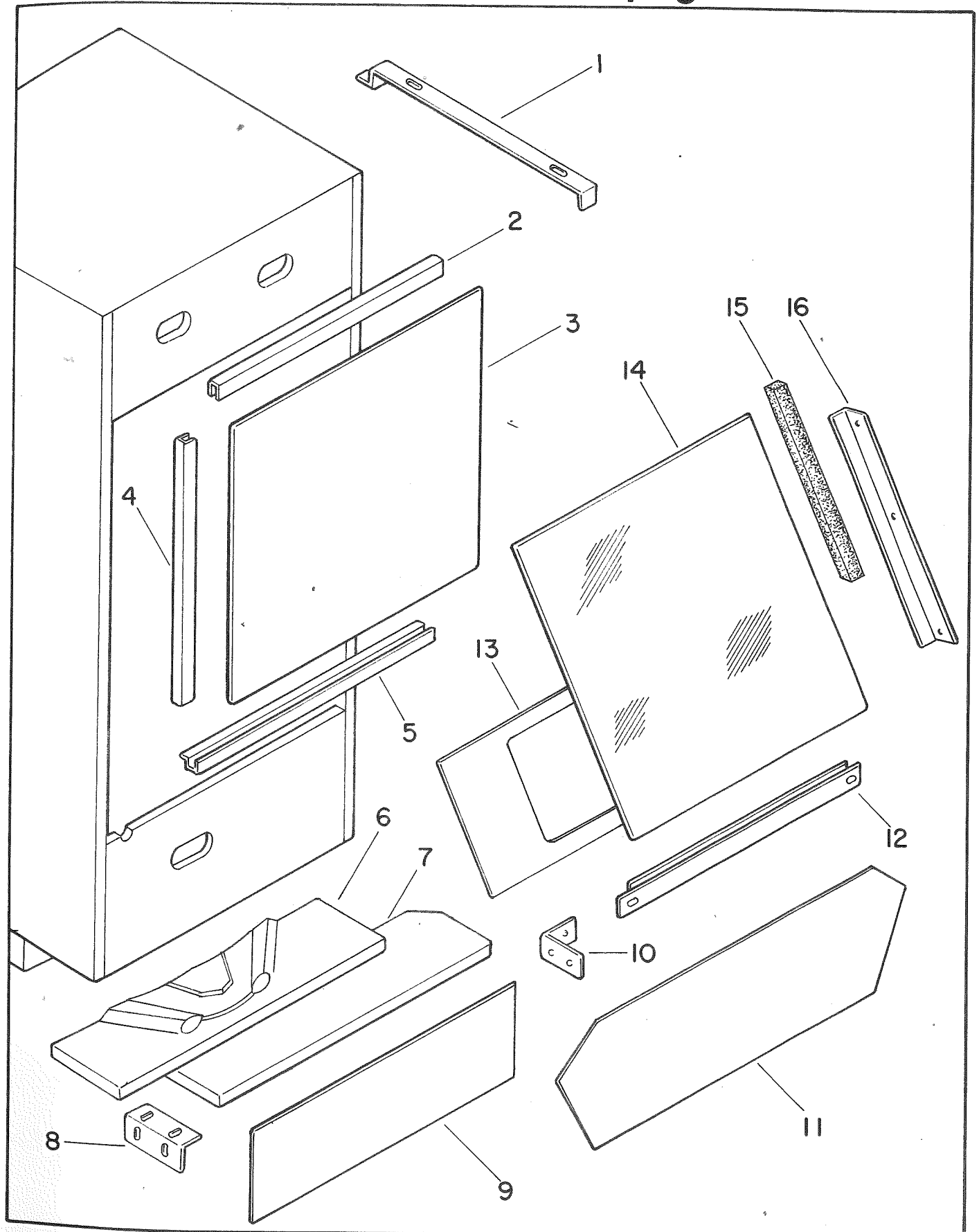
VIDEO AND FLUORESCENT LAMP ASS'Y

See pages 22,23



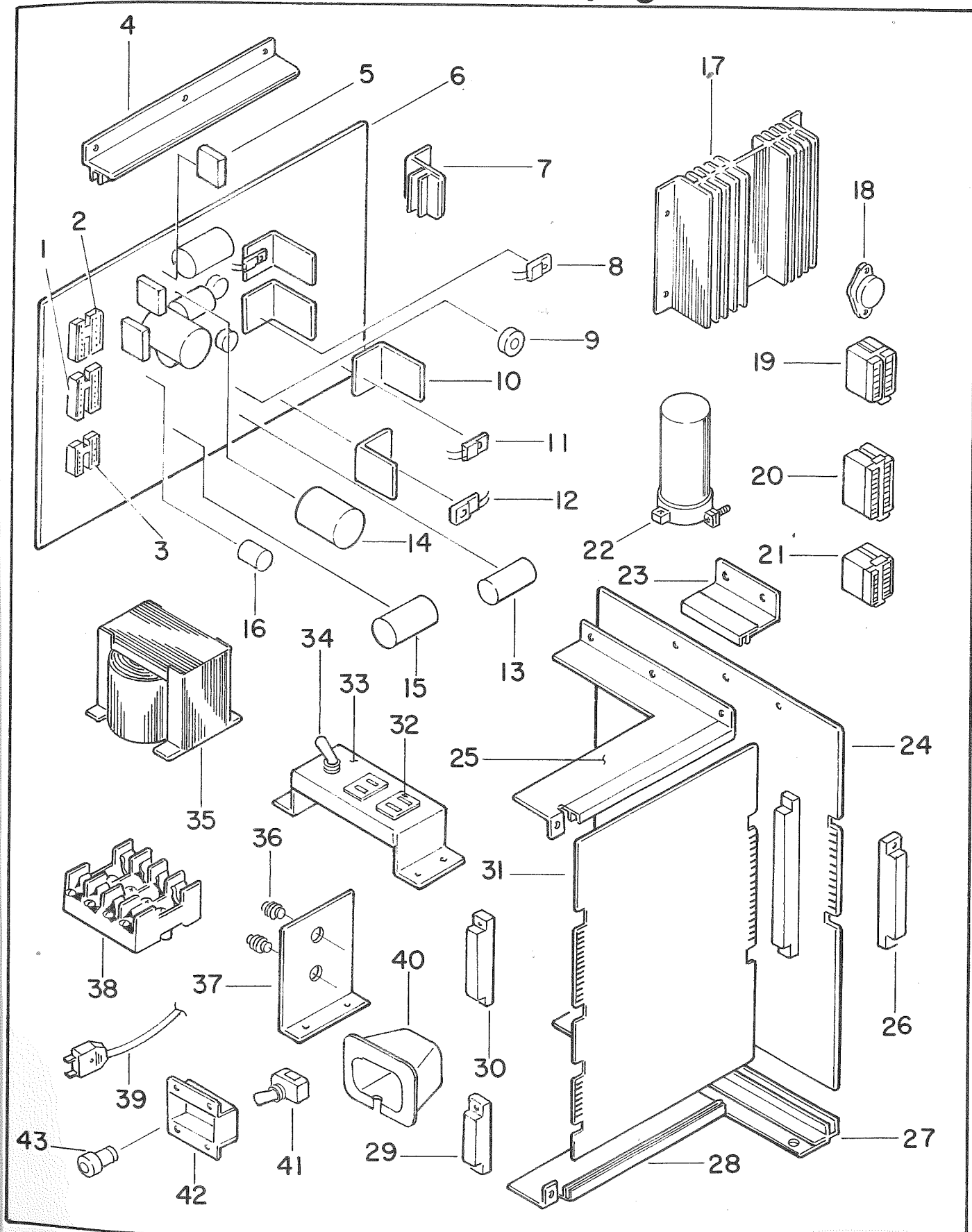
PLAYFIELD ASS'Y

See pages 23,24



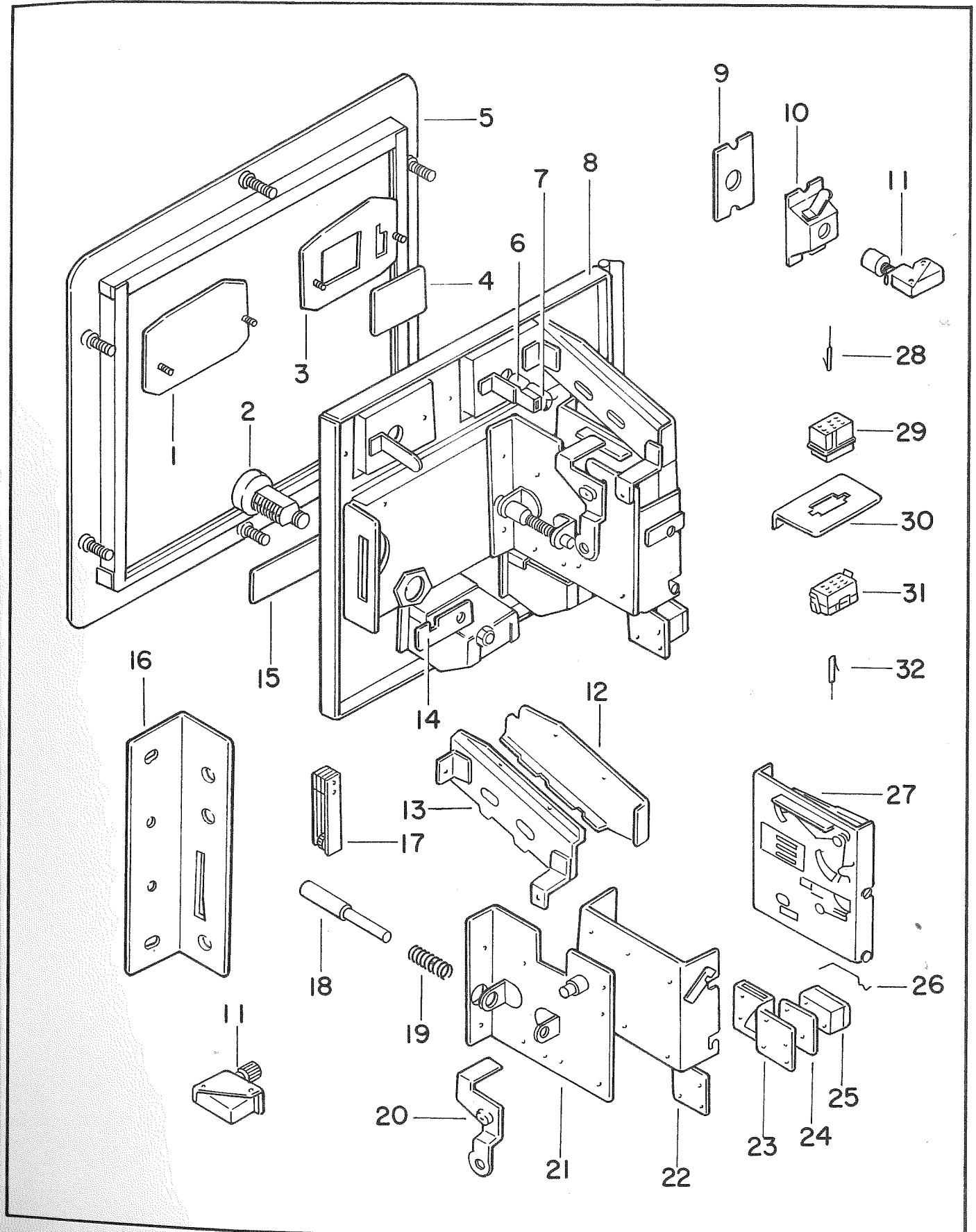
REGULATOR ASS'Y

See pages 25,26



FRONT DOOR AND COIN MECHANISM ASS'Y

See pages 26,27



CABINET ACCESSORY ASS'Y

Item	Part #	Description
1	AAO14511	Molding
2	SWO10001	Cabinet
3	SEO40002	Corner Protector
4	AAO16513	Caster
5	SWO40001	Corner Protector
6	AAO13519	Corner Bracket
7	AAO19524	Edge

CABINET ASS'Y

Item	Part #	Description
1	AAO16545	Lock & Key
2	AAO26512	Cash Box Door
3	AAO13583	Lock Plate
4	AAO28504	Cash Case
5	AAO25509	Coin Chute
6	AAO13582	Plate
7	AAO13580	Cash Box Guide (B)
8	AAO18504	Grommet

9	AAO13584	Support Bracket
10	AAO28505	Cash Box
11	AAO13579	Cash Box Guide (A)
12	AAO13581	Counter Bracket
13	AAO51615	Counter
14	AAO13587	Support Bracket
15	AAO13512	Cover
16	AAM50007	Counter Drive/ P.C. Board Ass'y
17	AAO55720	Connector
18	AAO13586	Connector Bracket
19	AAO13562	Ventilator
20	AAO19526	Net
21	AAT71011	Speaker
22	AAO13523	Door Stopper
23	EPO30010	Ventilator
24	AAO13510	Lock Plate
25	AAO13569	Lock Guide B
26	AAO16543	Lock & Key

ACCELERATOR ASS'Y

Item	Part #	Description
------	--------	-------------

1	SWO30016	Base Bracket
2	SWO20007	Bar
3	SWO90015	Spring Hook (A)
4	SWO90017	Spacer (A)
5	SWO30002	Cum Ass'y
6	SWO80002	Rubber Bumper
7	SWO90016	Spring Hook (B)
8	SWO50003	Spring
9	SWO90018	Spacer (B)
10	SWO30001	M S Bracket
11	AAO52532	Switch
12	AAO19504	Insulator
13	SWO30013	Accelerator Bracket
14	SWO20001	Guide Shaft
15	SWO20003	Gear
16	SEO30022	Plate
17	AAT53054	Potation Meter
18	SEO20006	Bushing
19	SWO20008	Accelerator Lever
20	SWO20002	Stop Shaft A
21	SWO80001	Rubber Stop
22	SEO50002	Extension Spring
23	SEO90008	Felt Plug

24	SEO30008	Floor Metal Plate
25	SPO90006	Accelerator Pedal
26	AAO55789	Mate-N-Lok Plug Pin
27	AAO55561	Mate-N-Lok Cap 6P
28	AAO55562	Mate-N-Lok Plug 6P
29	AAO55790	Mate-N-Lok Socket Pin
30	AAO55501	Mate-N-Lok Cap 2P
31	AAO55502	Mate-N-Lok Plug 2P
32	AAO55521	Mate-N-Lok Cap 3P
33	AAO55522	Mate-N-Lok Plug 3P
34	AAO55525	Mate-N-Lok Cap 3P
35	AAO55526	Mate-N-Lok Plug 3P

DASH BOARD ASS'Y

Item	Part No	Description
1	AAT53054	Potation Meter
2	SEO30022	Plate
3	RDO20004	Guide Shaft
4	SWO30014	Clutch Mounting Bracket
5	SWO20005	Stopper Shaft (B)
6	RDO80003	Stop Rubber

7	SWO50001	Spring (A)
8	AAO12551	Bearing
9	SWO20004	Clutch (A)
10	AAO12541	Bushing
11	SEO20006	Bushing
12	SWO50002	Spring (B)
13	RDO90004	Skin Washer
14	RDO20003	Gear
15	SWO30015	Platform Bracket
16	AAO12526	Bearing
17	SPO40004	Steering Wheel Bearing
18	SPO30010	Lock Plate
19	SWO90019	Mask
20	RDO20001	Steering Shaft
21	SWO30003	Spring Hook
22	SWO10002	Control Board
23	BPO30004	Lock Plate
24	SWO90020	Dash Board Panel
25	SWO30008	Lock Bracket (B)
26	SWO30007	Lock Bracket (A)
27	SWO70003	Instructions Plate
28	SPO20010	Key
29	SEO40003	Base

30	SEO90004	Steering Wheel
31	SEO40004	Base Cover
32	SEO70012	Decoration Plate
33	SWO70005	Cover Plate
34	SWO20006	Shaft
35	CHO90002	Shift Knob

VIDEO AND FLUORESCENT LAMP ASS'Y

Item	Part #	Description
1	AAO54720	Glow Lamp
2	AAO55695	Glow Socket
3	AAO54711	Fluorescent Lamp
4	AAO55694	FL Socket
5	SWO10003	FL Board
6	AAO12510	Spacer
7	AAO57504	Ballast
8	AAO55716	AC Socket
9	AAO55713	AC Plug
10	AAO57505	Ballast
11	AAO54716	Black Light Lamp
12	SWO70006	TV Cover

13	MSO30002	TV Bracket
14	SWO30010	Base Bracket (R)
15	SWO90013	Video
16	SWO30009	Base Bracket (L)
17	SWO90024	Color Sheet Green
18	SWO90025	Color Sheet Yellow
19	SWO90026	Color Sheet Blue

PLAYFIELD ASS'Y

Item	Part #	Description
1	SWO30012	Lock Plate
2	SWO30006	Glass Retainer Top
3	SWO70002	Front Glass
4	SWO30005	Glass Retainer Side
5	SWO30004	Glass Retainer Bottom
6	SWO70007	Bonnet
7	SWO10004	Field Board
8	SWO30018	Field Stop Bracket
9	SWO70013	Mask Sheet
10	MSO30007	Bracket
11	SWO70009	Back Field

12	SWO30011	Mirror Bottom Plate
13	SWO70008	Meter Panel
14	SWO90014	Half Mirror
15	AAO18552	Rubber
16	BKO30004	Glass Retaining Bracket

REGULATOR ASS'Y

Item	Part #	Description
1	AAO55886	Pin Header Ass'y 16P
2	AAO55876	Pin Header Ass'y 12P
3	AAO55866	Pin Header Ass'y 10P
4	AAO19528	P.C.Board Guide(B)
5	AAT14023	Rectifier
6	AAM60004	Power P.C.Board Ass'y
7	AAO19527	P.C.Board Guide (A)
8	AAT31016	Regulator
9	AAT53051	Potention Meter
10	AAO13565	Heat Sink
11	AAT11040	Transistor
12	AAT31015	Regulator
13	AAT41114	Capacitor

14	AAT41580	Capacitor
15	AAT41115	Capacitor
16	AAT41430	Capacitor
17	AAO69540	Heat Sink
18	AAT11032	Transistor
19	AAO55926	Socket Housing 12P
20	AAO55936	Socket Housing 16P
21	AAO55916	Socket Housing 10P
22	AAT41166	Capacitor
23	BPO90007	P.C.Board Guide C
24	SWN00002	C.P.U.P.C.Board Ass'y
25	SWO90022	P.C.Board Guide (B)
26	AAO55949	Connector 18P
27	BPO90006	P.C.Board Guide (B)
28	SWO90021	P.C.Board Guide (A)
29	AAO55947	Connector 10P
30	AAO55948	Connector 15P
31	SWN00001	Game P.C.Board Ass'y
32	AAO55788	A C Socket
33	AAO13574	Socket Box
34	AAO52535	Switch
35	AAO57550	Transformer
36	AAT12027	Diode

37	AAO69551	Heat Sink
38	AAO55805	Fuse Holder
39	AAO62501	A C Cable & Plug Ass'y
40	AAO19519	Cover
41	AAO52501	Switch
42	AAO13551	Switch Bracket
43	AAO55784	Fuse Holder

FRONT DOOR AND COIN MECHANISM ASS'Y

Item	Part No	Description
1	AAO21530	Coin Shield Plate
2	AAO16543	Lock & Key
3	AAO21533	Coin Entry Plate
4	AAO29508	Price Label ¥100
5	AAO26510	Door Frame
6	AAO54704	Lamp 12V 150mA
7	AAO55698	Lamp Socket
8	AAO26511	Front Door
9	AAO19521	Credit Plate
10	AAO13555	Switch Bracket
11	AAO52511	Switch

12	AAO25508	Coin Guide (B)
13	AAO25507	Coin Guide (A)
14	AAO13578	Lock Plate
15	AAO17705	Name Plate
16	AAO13577	Lock Guard
17	AAO68717	Blade Switch
18	AAO27504	Push Button
19	AAO15504	Spring
20	AAO13557	Scavenger
21	AAO13554	Mounting Bracket
22	AAO23501	Slug Rejector Mounting Bracket Ass'y
23	AAO25503	Coin Guide
24	AAO19502	Insulator
25	AAO52512	Switch
26	AAO53501	Actuator
27	AAO22503	Slug Rejector ¥100
28	AAO55789	Mate-N-Lok Plug Pin
29	AAO55581	Mate-N-Lok Cap 9P
30	AAO13527	Socket Bracket
31	AAO55582	Mate-N-Lok Plug 9P
32	AAO55790	Mate-N-Lok Socket Pin



SUPER HIGHWAY

