

TRAIL BLAZER
SERVICE INSTRUCTIONS

• AND •

PARTS CATALOG

• FOR •

PRODUCTS

of

Games, Inc.

• • *Manufacturers* • •

2950 NORTH CAMPBELL AVE.

CHICAGO 18, ILLINOIS

CORNELIA 7-8800

TRAIL BLAZER

OPERATION CHECK

After machine is set up and leveled, open back door and untie A.C. line cord. Replace back door with service cord placed in notch provided.

Plug cap into good 117 Volt A.C. source, turn power switch on. (Power switch is located on the back left side of cabinet.)

Replace cash box and front door, making certain the 6-point jack is in place securely and properly. Drop coin (5¢, 10¢, or 25¢ as indicated) into coin slot, replay step up should register one unit for each coin deposited.

After credit has been established, push start handle on front of cabinet. The magic viewer on the glass will start to flash, and one replay will be reset on the replay step up. The flashing will stop, in sequence (left to right) one at a time. When the fourth symbol is lighted and if the lit symbols correspond to a winning combination on the score chart, the proper amount will be registered on the replay step up.

To check replay reset, have a number of credits on replay step up, then operate power toggle switch off and on. Replay register should reset to zero.

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SEQUENCE OF OPERATION

When a coin is deposited in the coin slot, it travels thru the coin rejector and if accepted, operates the coin switch. The coin switch energizes the coin relay. Contacts on the coin relay, energize the lock relay and the advance coil on the replay step up. The replay step up being off of zero position makes its switch contact and this completes the circuit to the start handle switches.

Operating the start handle, closes the start switch, energizing the Timer solenoid. The Timer solenoid arm switches are actuated; starting the Timer Impulse Drive motor, and completing a lock circuit for the Timer solenoid, until it moves off the zero position.

Timer 1st position switch being actuated, resets the Commutator step up, Replay step up, and advances the Alternator step up and total play meter one position. The Timer Brush Arm wipers making contact with the rivets, energize #1 and #2 Flasher solenoids. A switch on #1 Flasher solenoid arm, energizes #3 Flasher solenoid; switch on #2 Flasher solenoid arm energizes the #1-2 Flasher Drive motor; and switch #2 energizes #4 Flasher solenoid. #4 Flasher solenoid arm switch starts the #3-4 Flasher Drive motor. The Timer runs until the index dog is engaged in the first mixing notch position. (Approximately 65° degree from zero position.) The switches being closed on #3 and #4 Flasher solenoid arms, permit current to flow from the Variator disc (when a hot rivet is contacted) to the Timer solenoid. The Timer solenoid being energized, the Timer continues on its cycle. (The next two notches on the Timer stop disc go thru the same mix cycle.) The Timer Brush Arm wiper leaves the rivets energizing #1 Flasher solenoid and the same wiper picks up #3 Flasher solenoid. #1 Flasher is stopped, as the Timer Brush Arm moves on, it stops #2, #3, and #4 in the same manner. If a winner is present the Brush Arm will stop at the 342° position holding that position until the Score relay releases and completes contacts to start the Timer on its cycle. When the Score relay is energized it opens the circuit to the Timer solenoid and energizes the Impulse solenoid. The Impulse disc pulses the replay step up and the Commutator step up; when the Commutator step up has been advanced the proper number of times for a given combination, it drops out the Score relay. The scoring being completed, the Timer Brush Arm advances to zero position, ready for the next play.

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VARIATOR UNIT

The sole function of the Variator unit is to start the Timer unit on its cycle when the Timer is stopped in one of the three mix positions. This is accomplished when the Variator wiper contacts a rivet and passes current through switches on #3 and #4 Flasher unit to energize the Timer solenoid.

SERVICE OR REPAIR NOTE

Should it become necessary to repair the Timer unit, careful attention will be required on reassembly. The stop disc cam will have to be indexed in notch marked in red, and the wiper arm replaced with contacts in position marked zero on Timer disc. The Timer solenoid arm switch should be adjusted as follows:

Bottom switch (make switch) should make contact 1/32" before stop dog leaves index notch. Top switch (make-break switch) should break 1/64" before stop dog leaves index notch. With stop dog resting on Timer index cam (not in notch) both contacts of top switch should not contact. The top switch make will contact only when the Timer solenoid plunger is bottomed and the stop dog is raised approximately 3/32" above cam.

All other units and switches in this machine will take standard care and adjustments.

To replace lite bulbs on magic viewer, remove two screws on back of viewer holding lite socket assembly. Replace bulbs only with G-E #44 Lamps, others may work but may project a blurred symbol.

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REPLACEMENT PARTS LIST

<u>Part No.</u>	<u>Description</u>
<u>Cabinet</u>	
G-105 ST-180	Trail Blazer Cabinet Glass Leveler
ST-8-1 ST-8 ST-8-12 CH-1101 H-81 H-77	5¢ Coin Drop Plate 10¢ Coin Drop Plate 25¢ Coin Drop Plate 5¢ Etch Plate 10¢ Etch Plate 25¢ Etch Plate
H-83 G-28	Ash Tray Coin Slide
2-AS-4 S-7 ST-1 G-15 G-14	Start Handle Assembly Start Handle Switch Start Handle Switch Arm Start Handle Spring Handle Mounting Plate
D-109 D-119 D-752 H-134 D-348 H-121	Female Socket (110 V.A.C.) Spacers (For D-109 Socket Mounting) Two Conductor A.C. Line Cord Terminal Strip (For A.C. Line Cord) Male Cap (110 V.A.C. Line Cord) On-Off Toggle Switch
G-111 H-58	Cash Box Cash Box Bracket

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REPLACEMENT PARTS LIST

Cabinet Door Assemblies

<u>Part No.</u>	<u>Description</u>
7-AS-3	Front Door Assembly (Complete)
G-104	Front Door
D-362	Lock
G-107	Coin Guide
G-31	5¢ Coin Rejector Complete
G-32	10¢ Coin Rejector Complete
G-33	25¢ Coin Rejector Complete
H-128	5¢ Coin Rejector Only
H-129	10¢ Coin Rejector Only
H-130	25¢ Coin Rejector Only
G-34	Lockout Magnet (50V)
H-286	Coin Switch (For 5¢ 10¢ 25¢ Coin Rejector)
H-287	Coin Switch Wire(" " " " " ")
1-AS-25	Scavenger Assembly
ST-148	Bushing (For Scavenger Assembly)
ST-237	Scavenger Lever Pin
4-AS-13	Coin Return Chute
ST-8-2	Coin Return Plate
G-22	Coin Chute Cable

Back Door

7-AS-10	Back Door Assembly
G-109	Back Door
D-362	Lock

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REPLACEMENT PARTS LIST

Insert Board

<u>Part No.</u>	<u>Description</u>
7-AS-6	Insert Board Assembly (Complete)
G-106	Insert Board
7-AS-7	Counter Cable
C-104	Lamp Sockets
G-122	Lamps (#44 G-E)
G-92	Lamps (15 Watt)
7-AS-8	Magic Viewer
7-AS-9	Magic Viewer Cable
G-44	Replay Step Up Unit (Complete)
26-1200	Advance Solenoid Coil
26-1200	Reset Solenoid Coil
H-63	Drive Pawl & Plunger Assembly
H-288	Drive Pawl Only
S-15	Switch (One Break)
H-290	4-Tooth Drive Wheel
H-291	#1 Counter Wheel
H-292	#2-3-4 Counter Wheel
H-293	8-Tooth Spur Gear
H-294	Index Arm & Roller Assembly

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REPLACEMENT PARTS LIST

Timer and Impulse Unit Assembly

<u>Part No.</u>	<u>Description</u>
4-AS-6	Timer and Impulse Unit Complete
H-209	Drive Motor (Spec #2657 15 RPM)
D-182	Clutch Pulley (2)
D-181	Leather Clutch Disc (2)
D-1053	Index Dog and Plunger Assembly (2)
D-284	Index Dog Spring (2)
D-283	Solenoid Plunger (2)
	1/8" dia. x 1/2" Tubular Rivet (2)
CT-19	Shoulder Stud (Mounting for Index Dog Assembly to Stand) (2)
BDM-663	Hair Pin Clip (2)
2-AS-11	Index Solenoid Assembly (2)
28-1900	Solenoid Coil (2)
D-885	Solenoid Plunger Stop Stud Assembly (2)
D-174	Impulse "O" Switch (Single Make)
S-9	Timer "O" Switch (One Make & Make-Break)
S-12	1st Position Timer Switch (Two Makes)
4-AS-8	Timer Stop Disc Assembly (5 Notch cam)
D-197	Impulse Stop Disc Assembly (1 Notch cam)
2-AS-13	Timer Brush Arm Assembly
2-AS-14	Impulse Brush Arm Assembly
BW-21	Timer Disc Assembly (Wired Complete)
BW-13	Impulse Disc Assembly (Wired Complete)

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REPLACEMENT PARTS LIST

No. 1 and No. 2 Flasher Unit Assembly

<u>Part No.</u>	<u>Description</u>
7-AS-12	No. 1-2 Flasher Unit Complete
G-43	Drive Motor (Spec. #2913 30 RPM)
D-182	Clutch Pulley (2)
D-181	Leather Clutch Disc (2)
D-1053	Index Dog & Plunger Assembly (2)
D-284	Index Dog Spring (2)
D-283	Solenoid Plunger (2)
	1/8" dia. x 1/2" Tubular Rivet (2)
CT-19	Shoulder Stud (Mounting for Index Dog Assembly to Stand) (2)
BDM-663	Hair Pin Clip (2)
2-AS-11	Index Solenoid Assembly (2)
28-1900	Solenoid Coil (2)
D-885	Solenoid Plunger Stop Stud Assembly (2)
S-24	#1 Index Arm Switch (One Make, One Break - One Break-Make)
S-25	#2 Index Arm Switch (Three Makes, One Break - One Break-Make)
JP-66	Stop Disc Assembly (2) (20 Notch Cam)
7-AS-13	#1 Flasher Brush Arm Assembly
7-AS-14	#2 Flasher Brush Arm Assembly
BW-31	#1 Flasher Disc Assembly (Wired Complete)
BW-32	#2 Flasher Disc Assembly (Wired Complete)

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REPLACEMENT PARTS LIST

No. 3 and No. 4 Flasher Unit Assembly

<u>Part No.</u>	<u>Description</u>
7-AS-15	No. 3-4 Flasher Unit Complete
G-43	Drive Motor (Spec. #2913 30 RPM)
D-182	Clutch Pulley (2)
D-181	Leather Clutch Disc (2)
D-1053	Index Dog & Plunger Assembly (2)
D-284	Index Dog Spring (2)
D-283	Solenoid Plunger (2)
	1/8" dia. x 1/2" Tubular Rivet (2)
CT-19	Shoulder Stud (Mounting for Index Dog Assembly to Stand) (2)
BDM-663	Hair Pin Clip (2)
2-AS-11	Index Solenoid Assembly (2)
28-1900	Solenoid Coil (2)
D-885	Solenoid Plunger Stop Stud Assembly (2)
S-26	#3 Index Arm Switch (Two Makes, One Break - One Break-Make)
S-26	#4 Index Arm Switch (Two Makes, One Break - One Break-Make)
JP-66	Stop Disc Assembly (2) (20 Notch Cam)
7-AS-16	#3 Flasher Brush Arm Assembly
7-AS-17	#4 Flasher Brush Arm Assembly
BW-33	#3 Flasher Disc Assembly (Wired Complete)
BW-34	#4 Flasher Disc Assembly (Wired Complete)

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REPLACEMENT PARTS LIST

<u>Part No.</u>	<u>Description</u>
Relays	
R-200	Lock Relay (One Make & One Break-Make)
R-201	Coin Relay (Three Makes)
R-204	Reset Relay (Two Makes, One Break & One Break-Make)
R-205	Star Relay (One Make & One Break)
R-203	Score Relay (Four Makes & Two Breaks)
R-202	Commutator Relay (One Make)
R-202	Impulse Relay (One Make)
R-204	Rocket Relay (Two Makes, One Break & One Break-Make)
R-206	Wild Lock Relay (One Break)
R-207	#1 Wild Relay (Six Makes)
R-207	#2 Wild Relay (Six Makes)
R-208	#3 Wild Relay (Three Makes & One Break-Make)
R-209	#3 Wild Relay (Four Makes)
R-209	#4 Wild Relay (Four Makes)
R-210	#4 Wild Relay (Three Makes)

Commutator Step Up Unit

4-AS-11	Commutator Step Up Unit Complete
BW-16	Commutator Disc (Wired Complete)
25-1000	Step Up Solenoid Coil
27-1100	Reset Solenoid Coil
2-AS-16	Wiper Arm Assembly

Alternator Unit

4-AS-4	Alternator Unit Complete
S-10	Alternator Cam Switch (Two Break-Makes)
S48B	Solenoid Coil
S-16	Alternator Cam Switch (Three Break-Makes)
S-19	Alternator Cam Switch (One Break-Make)

Variator Unit

2-AS-8	Variator Unit Complete
H-68	Variator Motor-Hansen } specify
G-90	Variator Motor-Cramer } type
BW-14	Variator Disc (Wired Complete)
H-55	Variator Wiper Assembly

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REPLACEMENT PARTS LIST

Miscellaneous

Part No.	Description
G-12	Total Play Meter (TAB Mod. E-130-10 A.C.V. 50)
G-12	Total Won Meter (TAB Mod. E-130-10 A.C.V. 50)
G-40	Transformer (117 V. Pri.; 6 and 50 V. Sec.)
ST-192	Fuse Block
G-41	10 Amp. Fuse
G-42	15 Amp. Fuse
G-52	8 Amp. Fuse
D-391	Male Plug 6 Pt.
D-392C	Female Socket 6 Pt.
D-393	Male Plug 8 Pt.
D-394	Female Socket 8 Pt.
D-395	Male Plug 10 Pt.
D-396C	Female Socket 10 Pt.
D-397	Male Plug 12 Pt.
D-398	Female Socket 12 Pt.
D-399	Male Plug 14 Pt.
D-400	Female Socket 14 Pt.
D-409	Male Plug 26 Pt.
D-410	Female Socket 26 Pt.

TWIN TRAIL BLAZER

REPLACEMENT PARTS LIST

<u>Part No.</u>	<u>Description</u>
	Relays
R-201	Left Coin Relay (Three Makes)
R-201	Right Coin Relay (Three Makes)
R-202	Impluse Relay (One Make)
R-202	Commutator Relay (One Make)
R-204	Rocket Relay (Two Makes, One Break & One Break-Make)
R-205	Star Relay (One Make & One Break)
R-207	#1 Wild Relay (Six Makes)
R-207	#2 Wild Relay (Six Makes)
R-209	#4 Wild Relay (Four Makes)
R-209	#3 Wild Relay (Four Makes)
R-210	#4 Wild Relay (Three Makes)
R-212	Left Play Relay (Four Makes & One Break)
R-212	Right Play Relay (Four Makes & One Break)
R-213	Left Reset Relay (Three Makes, Two Breaks & One Break-Make)
R-213	Right Reset Relay (Three Makes, Two Breaks & One Break-Make)
R-214	Score Relay (Three Makes & One Break)
R-215	E.O.C. Relay (One Make & One Break)
R-216	Wild Lock Relay (Two Makes & Two Breaks)
R-217	Lock Relay (One Make & Two Breaks)
R-218	Left Played Relay (Four Makes)
R-218	Right Played Relay (Four Makes)
R-219	#3 Wild Relay (Four Makes & One Break-Make)

