

UNITED
PARTS CATALOG

UNITED MANUFACTURING COMPANY • 3401 NORTH CALIFORNIA AVENUE • CHICAGO 18, ILLINOIS, U.S.A.



his parts catalog is compiled in simplest form to enable you to quickly select any desired parts for United products. As new catalog pages are prepared simply insert in this handy loose-leaf binder. All parts are illustrated by actual photographs with each part identified by a part number. Page opposite each photograph gives proper description of each part. To avoid confusion and loss of time, *always specify part number, name and serial number of game in which part is to be used.*

All United distributors carry a complete stock of parts. Prices subject to change without notice. Shipments f.o.b. your local distributor.

UNITED MANUFACTURING COMPANY

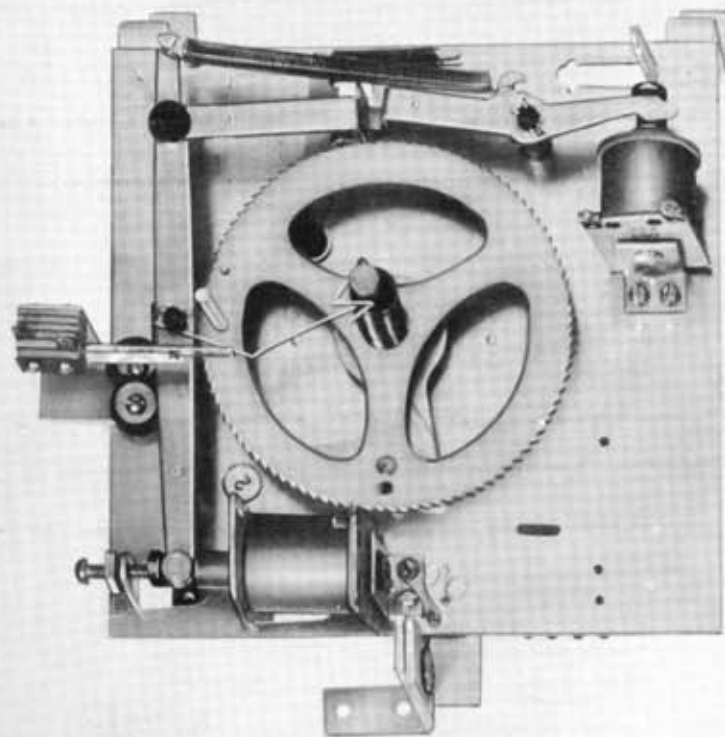
U-2-LSUR

Large Step-up Unit (Resetting type)

PART NUMBER DESCRIPTION

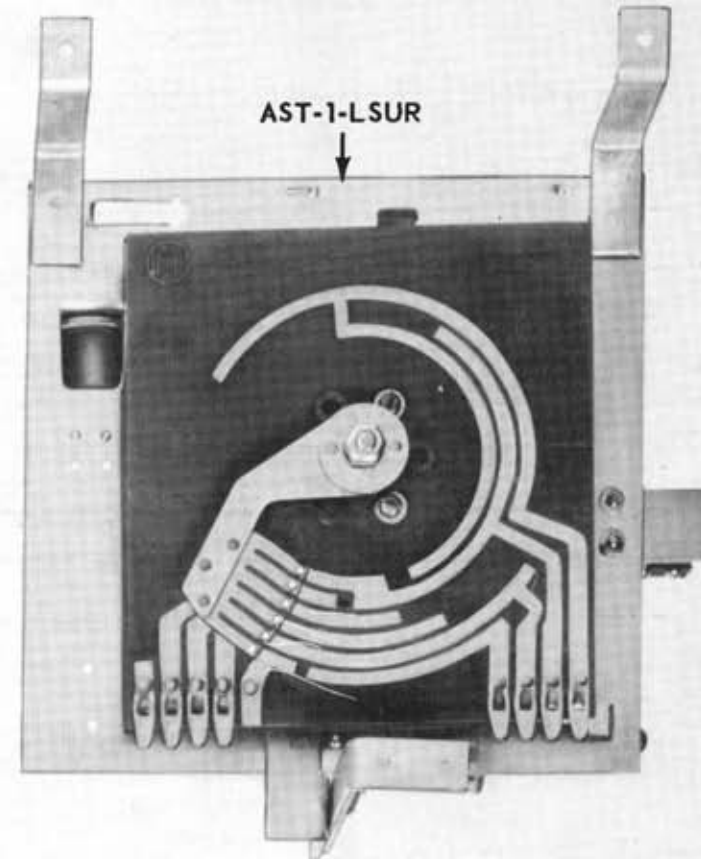
U-2-LSUR	Large Step-Up Unit, Complete (Resetting Type)
AST-1-LSUR	Base Plate Assembly Only
PC-1	Commutator Plate Assembly
AST-2601-CW	Commutator Wiper Assembly
AST-1838	Reset Arm Assembly
AST-7-SU	Large 100 Tooth Ratchet and Shaft Assembly
AST-20-SU	100,000 Cam Assembly
A-5-SU	Drive Arm and Pawl Assembly
NSM-13-ASU	Solenoid Reset Armature
SM-12-SU	Solenoid Drive Armature
ST-19-SU	Switch Bracket
SW-LSU	Limit Switch
#1 Series	Solenoid Drive Coil
#2 Series	Solenoid Reset Coil
A-2810	Solenoid Stop Assembly
S-1-SU	Torsion Spring
S-4-SU	Reset Arm Latch Spring
S-3426	Drive Arm and Pawl Spring
P-1	10/32 x 3/4" R. H. Brass Machine Screw with Nut & Lock Washer
P-2	1/4 - 28 Hex Nut and Lock Washer
P-3	#6 Solder Lug
P-8	3/16 Hair Pin Clip
P-10	6/32 x 3/16 Round Head Machine Screw
P-35	Sponge Rubber Shock Mount
P-50	1/16" x 1" Cotter Pin
P-70	6/32 Nut
P-86	6/32 x 1/4 Binder Head Machine Screw and Washer
P-87	6/32 x 1/2 Round Head Machine Screw
P-412	#6 x 1/2 x 3/64 Thick Steel Washer

TO AVOID
DELAY
BE SURE
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PART NUMBER
WITH
DESCRIPTION
TOGETHER
WITH
NAME AND
SERIAL
NUMBER
OF GAME

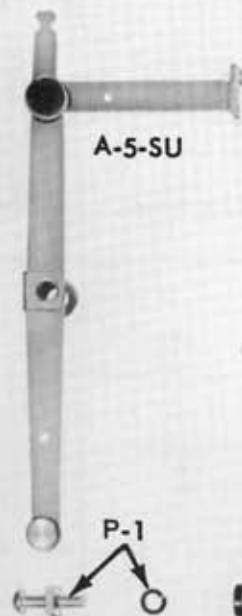


U-2-LSUR

PC-1



AST-1-LSUR



A-5-SU



AST-1838

S-4-SU



P-8

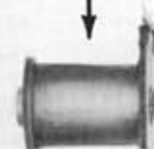
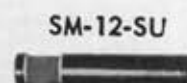


S-3426



#1 SERIES COIL

SM-12-SU



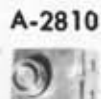
AST-2601-CW

NSM-13-ASU



#2 SERIES COIL

A-2810



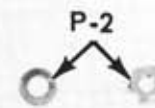
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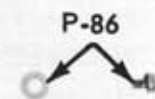
P-3



P-2



P-86



P-50



S-1-SU

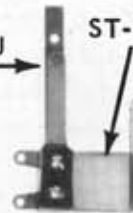


AST-7-SU



AST-20-SU

SW-LSU



ST-19-SU

P-35



P-412



P-70



P-87



HINGED BASE

U-1-MSURH

WELDED BASE

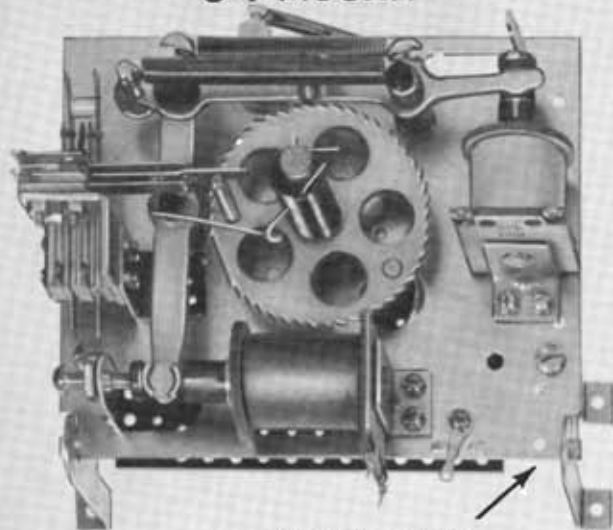
U-1-MSURW

Medium
Step-up
Unit
(Resetting
type)

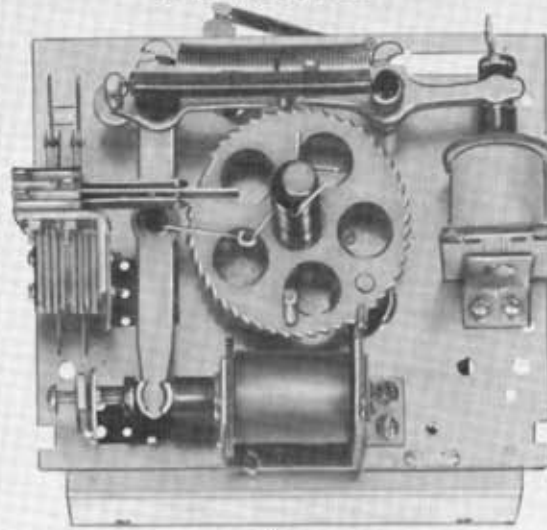
PART NUMBER	DESCRIPTION
U-1-MSURH.....	Medium Step-Up Unit Complete (Resetting Type) Hinged Base.....
U-1-MSURW.....	Medium Step-Up Unit Complete (Resetting Type) Welded Base.....
ANST-50-MSURH.....	Base Plate Assembly Only (Hinged) Including Legs.....
ANST-50-MSURW.....	Base Plate Assembly Only (Welded).....
NST-16-SUL.....	Mounting Bracket (Left).....
NST-16-SUR.....	Mounting Bracket (Right).....
ACP.....	Commutator Plate Assembly.....
ACW.....	Commutator Wiper Assembly.....
A-19-NSU.....	Drive Arm and Pawl Assembly.....
ANST-5-ASU.....	Reset Arm Assembly.....
ANST-7-SU.....	50 Tooth Ratchet and Shaft Assembly.....
A-2810.....	Solenoid Stop Assembly.....
SM-12-SU.....	Solenoid Drive Armature.....
NSM-13-ASU.....	Solenoid Reset Armature.....
NSM-15-SU.....	Reset Post Spacer.....
SW-EOS.....	End of Stroke Switch.....
SW-LSU.....	Limit Switch.....
ST-4424-1.....	Switch Bracket.....
#1 Series.....	Solenoid Drive Coil.....
#2 Series.....	Solenoid Reset Coil.....
S-2-SU.....	Drive Arm Spring.....
S-3-SU.....	Drive Pawl Spring.....
S-4-SU.....	Reset Arm Latch Spring.....
S-6-SU.....	Torsion Spring.....
P-1.....	10/32 x 3/4 Brass Round Hd Machine Screw with Nut and Lock Washer.....
P-2.....	1/4 - 28 Nut and Lock Washer.....
P-3.....	#6 Solder Lug.....
P-10.....	6/32 x 3/16 Round Head Machine Screw.....
P-50.....	1/16" x 1" Cotter Pin.....
P-86.....	6/32 x 1/4 Binder Head Machine Screw & Washer.....
P-88.....	8/32" x 3/16" Binder Head Machine Screw Sems.....

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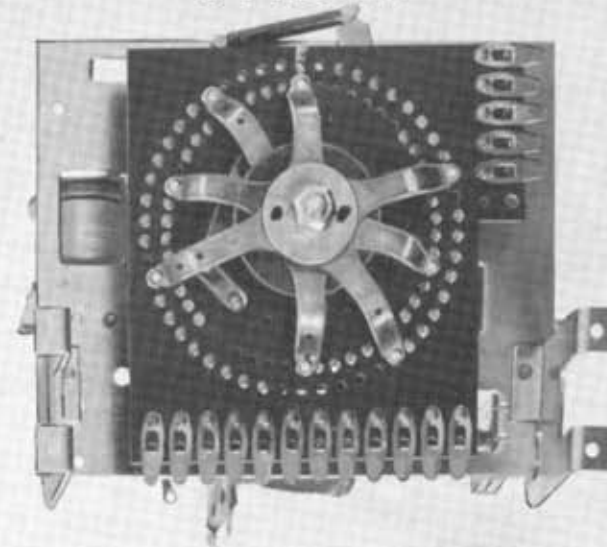
U-1-MSURH



U-1-MSURW



U-1-MSURH



NST-16-SUL

ANST-50-MSURH

NST-16-SUR

ANST-50-MSURW

S-4-SU

NSM-13-ASU

ANST-7-SU

ACP

A-19-NSU

S-3-SU

ANST-5-ASU

S-6-SU

NSM-15-SU

S-2-SU

P-50

#2 SERIES COIL

P-88

SM-12-SU

#1 SERIES COIL

A-2810

P-10

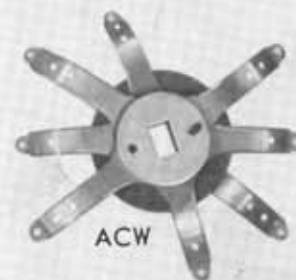
P-86

P-3

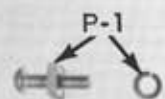
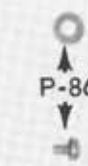
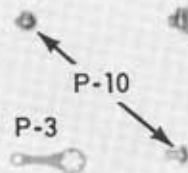
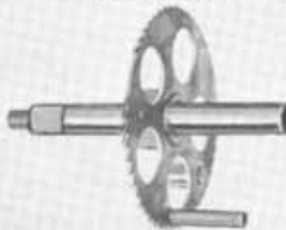
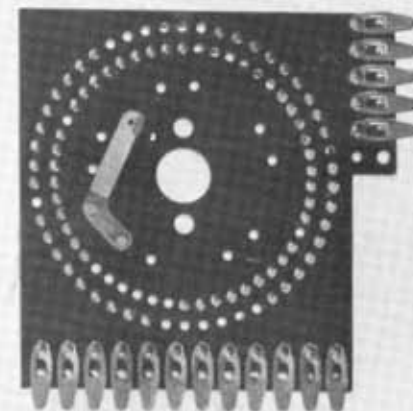
SW-LSU

ST-4424-1

P-2



ACW



WELDED BASE

U-2-MSURW

Medium
Step-up
Unit
(Resetting
type)

PART NUMBER	DESCRIPTION
U-2-MSURW.....	Medium Step-Up Unit Complete (Resetting Type) Welded Base
ANST-50-MSURW....	Base Plate Assembly Only (Grommet Mounting)
PC-13	Commutator Plate Assembly
AST-2601-CW.....	Commutator Wiper Assembly
AST-3607.....	Small 80 Tooth Ratchet and Shaft Assembly
A-19-NSU	Drive Arm and Pawl Assembly
ANST-5-ASU.....	Reset Arm Assembly.....
A-2810	Solenoid Stop Assembly
#1 Series	Solenoid Drive Coil
#2 Series	Solenoid Reset Coil.....
SM-12-SU.....	Solenoid Drive Armature
NSM-13-ASU	Solenoid Reset Armature
NSM-15-SU	Reset Post Spacer
NSM-30-SU	Drive Arm Post.....
NSM-31-SU	Reset Pawl Post
S-3-SU.....	Drive Pawl Spring
S-4-SU.....	Reset Arm Latch Spring.....
S-6-SU.....	Torsion Spring
S-3426.....	Drive Arm Spring
P-1	10/32 x 3/4 Brass Round Head Machine Screw with Nut and Lock Washer.....

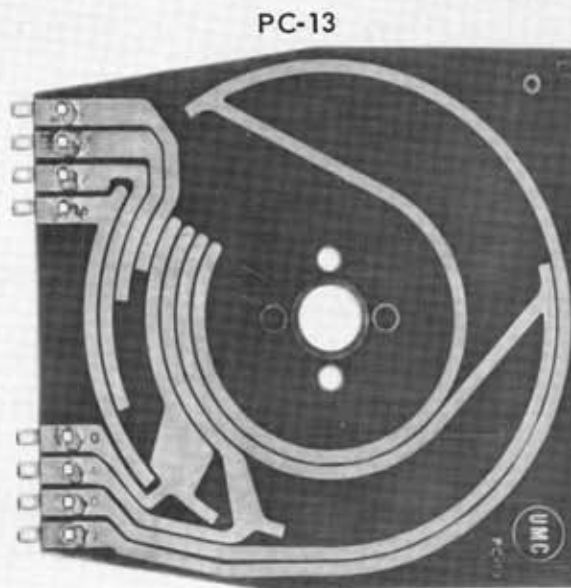
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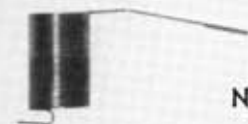
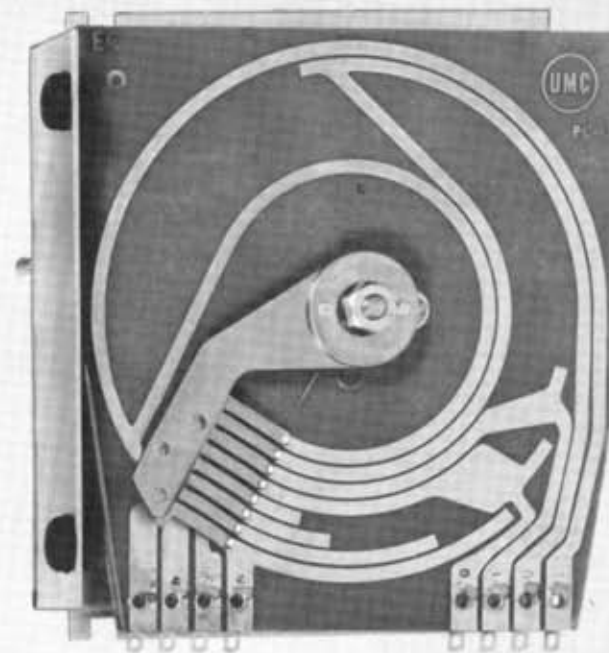
AST-3607



AST-2601-CW



PC-13



S-6-SU

NSM-30-SU



NSM-31-SU



S-4-SU



S-3-SU



S-3426



A-19-NSU

U-2-MSURW



A-2810



#1 SERIES
COIL



SM-12-SU



P-1



A-2810



#2 SERIES
COIL



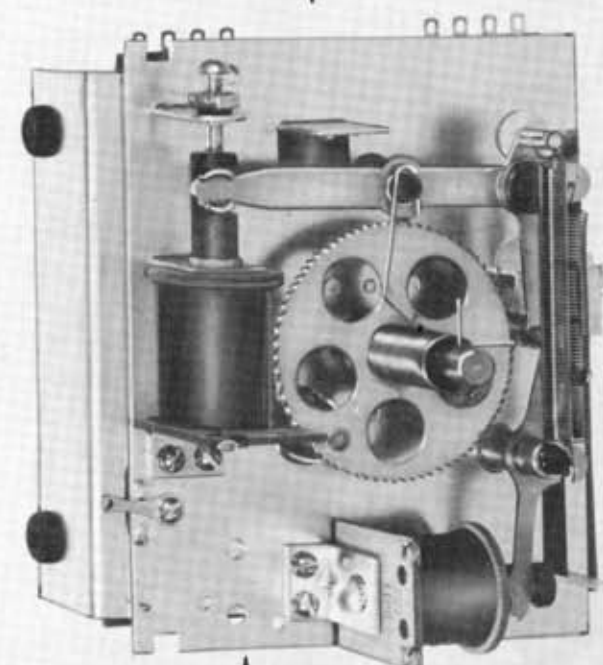
NSM-13-ASU



NSM-15-SU



ANST-5-ASU

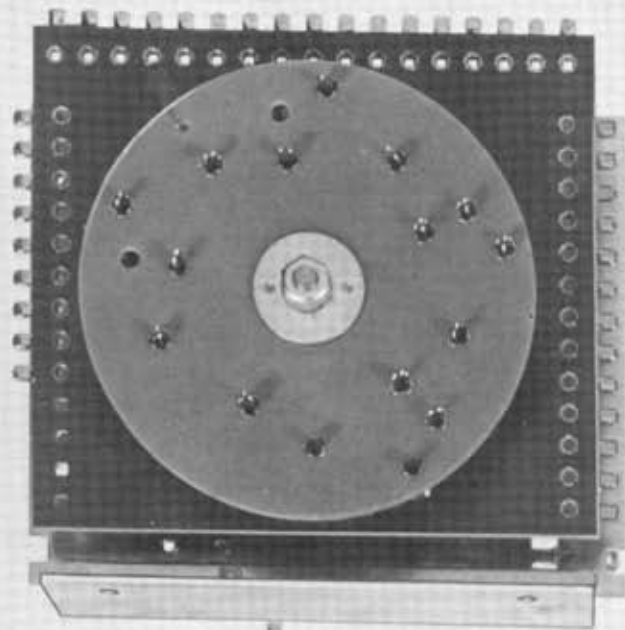


ANST-50-MSURW

WELDED BASE
U-3-MSURWMedium
Step-up
Unit
(Resetting
Type)

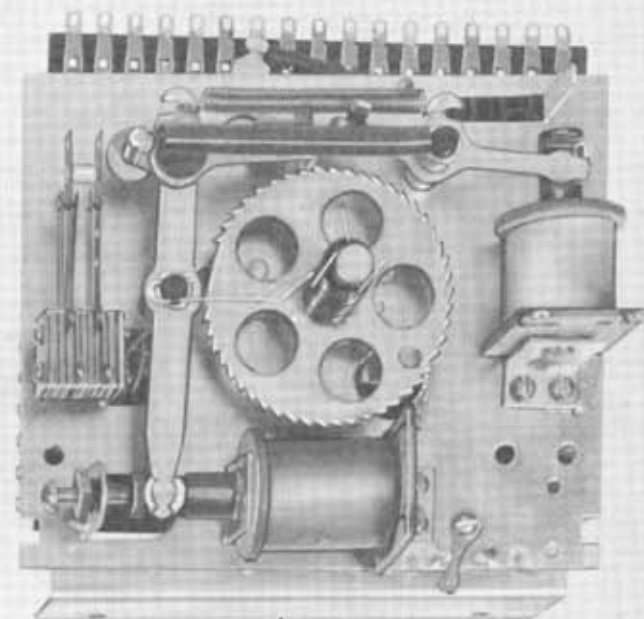
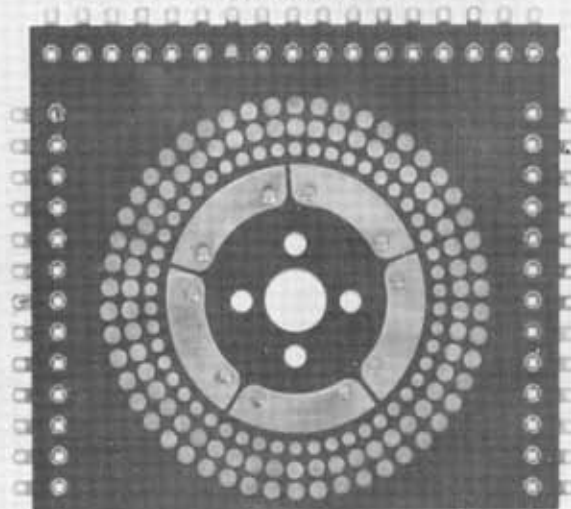
PART NUMBER	DESCRIPTION
U-3-MSURW.....	Medium Step-Up Unit, Complete (Resetting-Type) Welded Base.....
ANST-50-MSURW.....	Base Plate Assembly Only.....
AST-2407-SU.....	Commutator Plate Assembly.....
PC-10.....	Commutator Wiper Disc (Snowshoe Style) (Old Type Shown)
ANST-5-ASU.....	Reset Arm Assembly
ANST-7-SU.....	Small 50 Tooth Ratchet and Shaft Assembly
A-19-NSU.....	Drive Arm and Pawl Assembly.....
#1 Series.....	Solenoid Drive Coil
#2 Series.....	Solenoid Reset Coil
A-2810.....	Solenoid Stop Assembly.....
SM-12-SU.....	Solenoid Drive Armature.....
NSM-13-ASU.....	Solenoid Reset Armature
NSM-15-SU.....	Reset Post Spacer.....
SM-2586.....	Commutator Wiper Spacer
SW-EOS.....	End of Stroke Switch
S-3-SU.....	Drive Pawl Spring
S-4-SU.....	Reset Arm Latch Spring
S-3287.....	Torsion Spring
S-3328.....	Drive Arm Spring.....
P-1.....	10/32 x 3/4 Brass R.H.M. Screw with Nut and Lock Washer.....
P-2.....	1/4" - 28 Nut and Lock Washer.....
P-3.....	#6 Solder Lug
P-10.....	6/32 x 3/16 Round Head Machine Screw
P-50.....	1/16" x 1" Cotter Pin
P-86.....	6/32 x 1/4 Binder H.M. Screw and Washer

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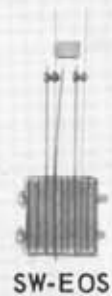
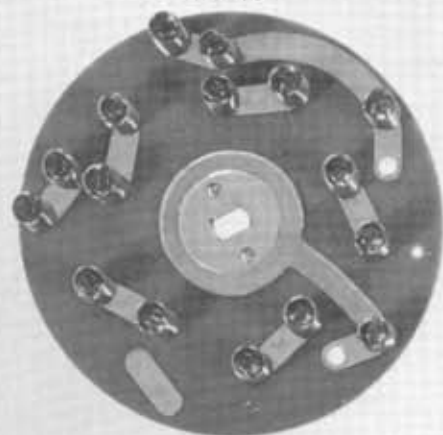
U-3-MSURW

AST-2407-SU



ANST-50-MSURW

PC-10



SW-EOS



A-19-NSU

S-4-SU

S-3-SU

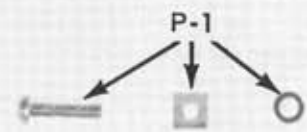
S-3328



ANST-5-ASU



NSM-13-ASU



P-1



SM-12-SU

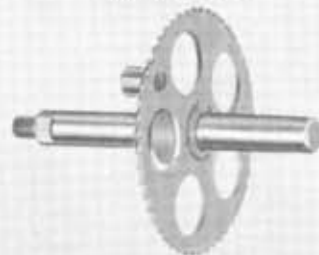


#1 SERIES COIL

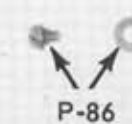


#2 SERIES COIL

ANST-7-SU



P-50



P-86

P-10

P-10



P-3

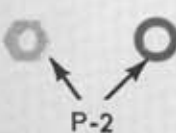


A-2810

SM-2586



S-3287



P-2

HINGED BASE

U-1-SSUCH

WELDED BASE

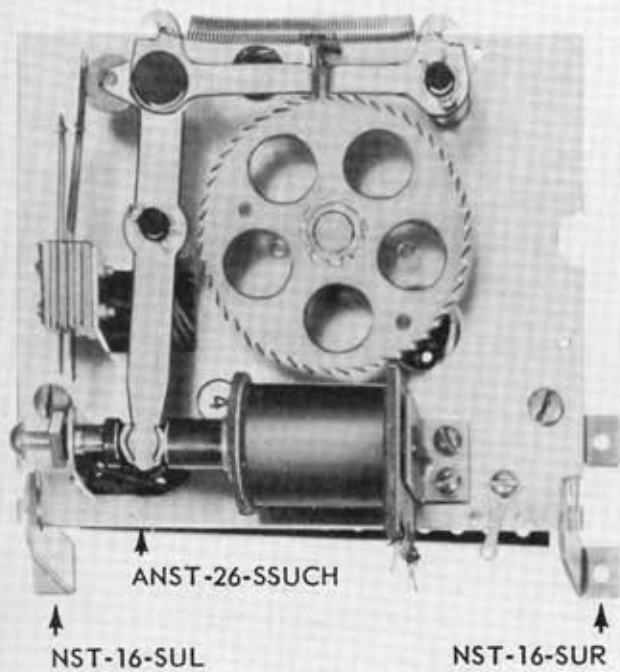
U-1-SSUCW

Small
Step-up
Unit
(Continuous
type)

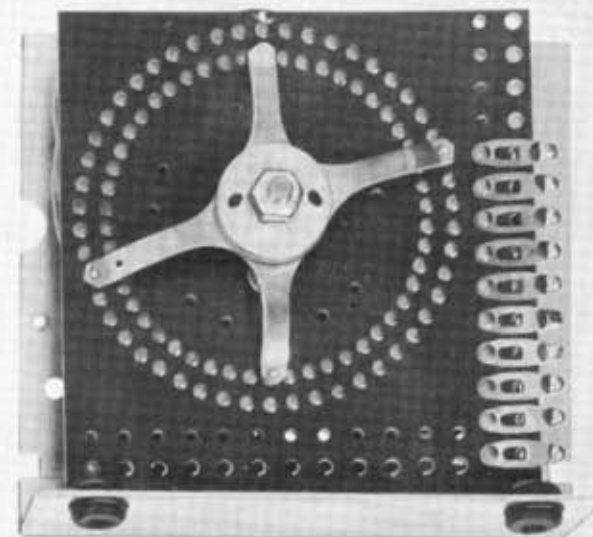
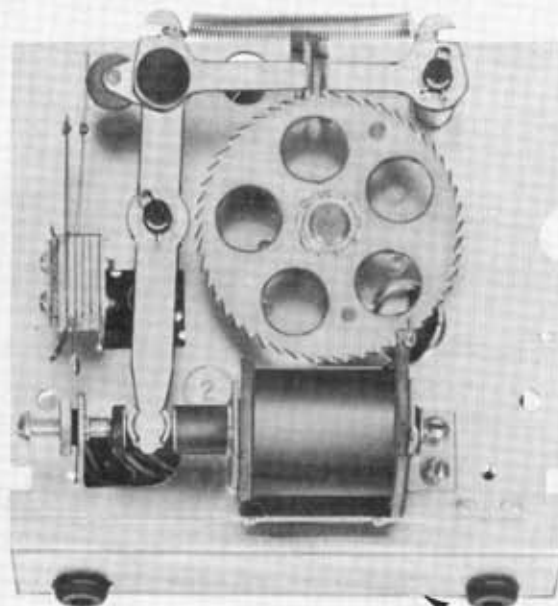
PART NUMBER	DESCRIPTION
U-1-SSUCH	Small Step-Up Unit Complete (Continuous Type) Hinged Base.....
U-1-SSUCW	Small Step-Up Unit Complete (Continuous Type) Welded Base.....
ANST-26-SSUCH.....	Base Plate Assembly Only Including Legs
ANST-26-SSUCW.....	Base Plate Assembly Only (Grommet Mounting)
NST-16-SUL	Mounting Bracket (Left)
NST-16-SUR	Mounting Bracket (Right)
ACP	Commutator Plate Assembly.....
ACW	Commutator Wiper Assembly.....
A-19-NSU	Drive Arm and Pawl Assembly.....
ANST-5-BSU	Ratchet Pawl Assembly.....
ANST-7-SU	Small 50 Tooth Ratchet and Shaft Assembly
A-2810	Solenoid Stop Assembly.....
SM-3402-SU.....	Solenoid Drive Armature
#1 Series	Solenoid Coil.....
SW-EOS	End of Stroke Switch
S-3-SU	Drive Arm & Pawl Spring
ST-26 09	Switch Compression Plate
P-1	10/32 x 3/4 Brass Round Head Machine Screw with Nut and Lock Washer
P-2	1/4 - 28 Nut and Lock Washer
P-4	4/36 Round Head Machine Screw (give length)
P-8	3/16" Hair Pin Clip
P-10.....	6/32 x 3/16 Round Head Machine Screw
P-86.....	6/32 x 1/4 Binder Head Machine Screw and Washer.....

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U-1-SSUCH

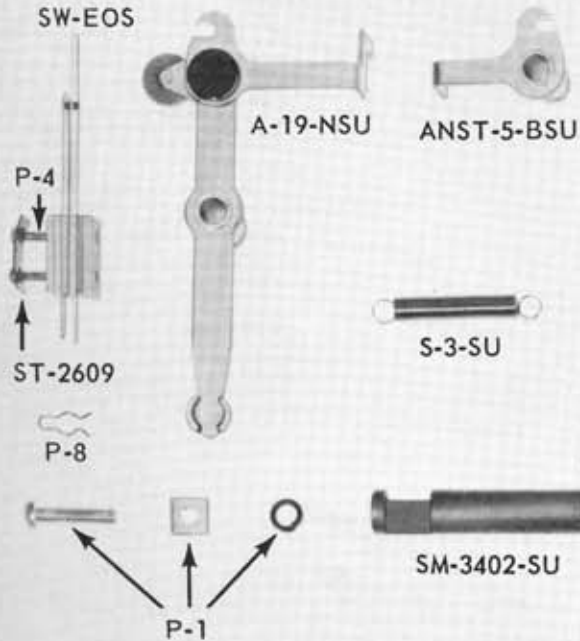


U-1-SSUCW



ANST-26-SSUCW

SW-EOS



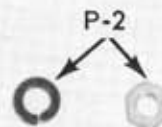
ANST-7-SU



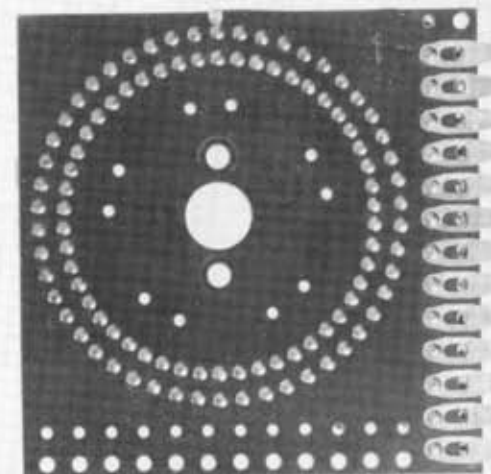
ACW



P-2



ACP



#1 SERIES COIL



P-10



A-2810



P-86



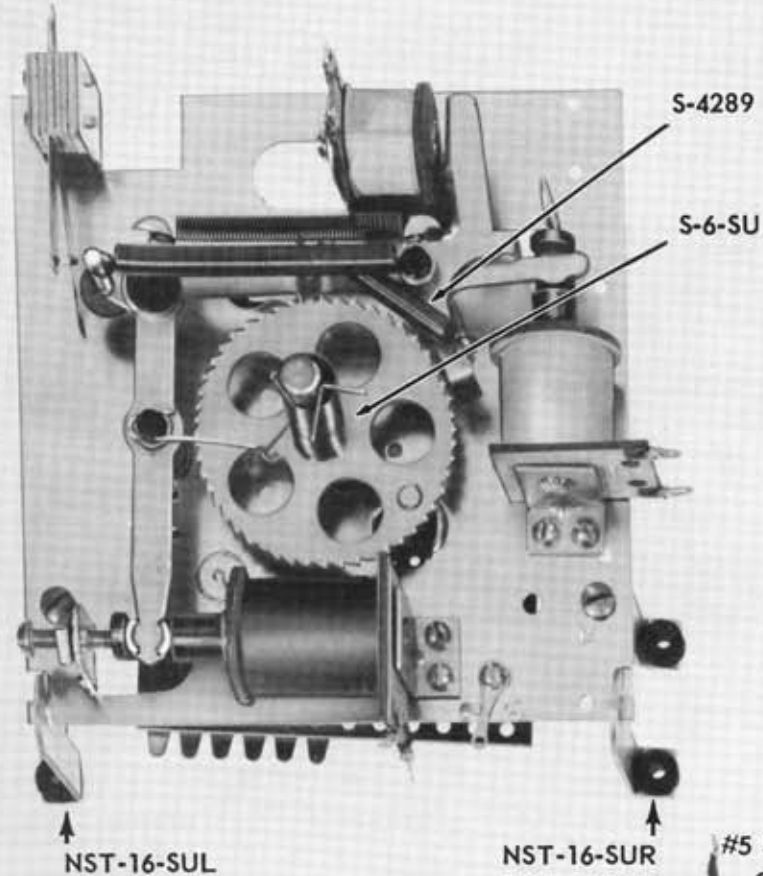
HINGED BASE
U-1-SUEHStep-up
Unit
(Escapement
type)

PART NUMBER

DESCRIPTION

U-1-SUEH	Step-Up Unit Complete (Escapement Type) Hinged Base
ANST-50-SUEH.....	Base Plate Assembly Only, Including Grommet Mounted Legs
PC-9	Commutator Plate Assembly
ACW	Commutator Wiper Assembly.....
NST-16-SUL	Mounting Bracket (Left) with Rubber Grommets
NST-16-SUR	Mounting Bracket (Right) with Rubber Grommets.....
ANST-7-SU.....	Small 50 Tooth Ratchet and Shaft Assembly.....
A-19-NSU.....	Drive Arm and Pawl Assembly
ANST-5-ASU.....	Reset Arm Assembly
ANST-17-ASU.....	Escapement Pawl Assembly
#1 Series	Solenoid Drive Coil
#2 Series	Solenoid Single Step Reset Coil
#5 Series	Solenoid Complete Reset Coil.....
SM-12-SU	Solenoid Drive Armature
NSM-13-ASU	Solenoid Reset Armature
A-2810.....	Solenoid Stop Assembly
SW-EOS.....	End of Stroke Switch.....
S-2-SU	Drive Arm Spring
S-3-SU	Drive Pawl Spring
S-6-SU	Torsion Spring
S-4289	Reset Spring (Escapement)
P-1	10/32 x 3/4 Brass Round Head Machine Screw with Nut and Lock Washer

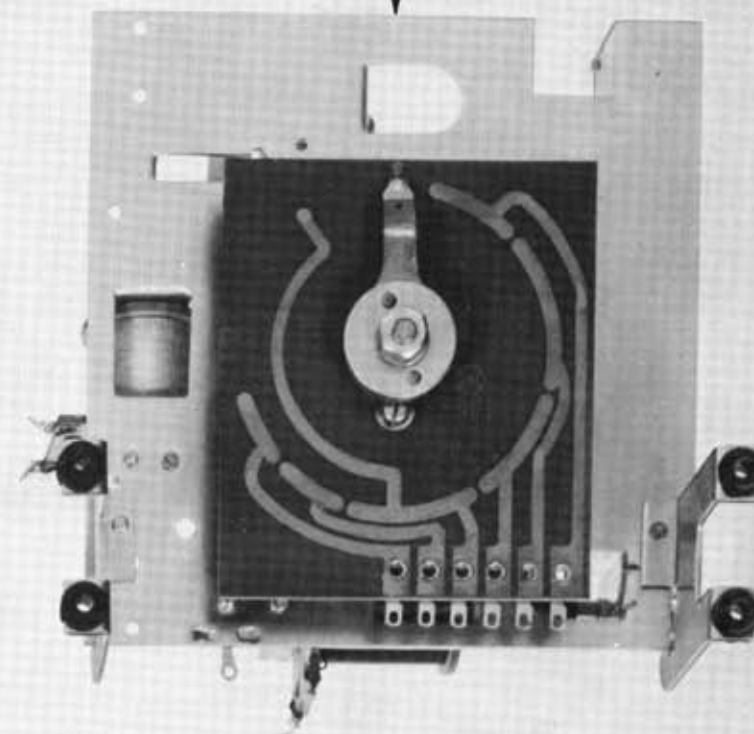
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U-1-SUEH



ANST-50-SUEH



#5 SERIES COIL

NSM-13-ASU

#2 SERIES COIL

ACW

ANST-7-SU

ANST-5-ASU

ANST-17-ASU

#1 SERIES COIL

A-2810

NST-16-SUL

NST-16-SUR

U-1-MU

Mixer
Unit
Complete

PART NUMBER

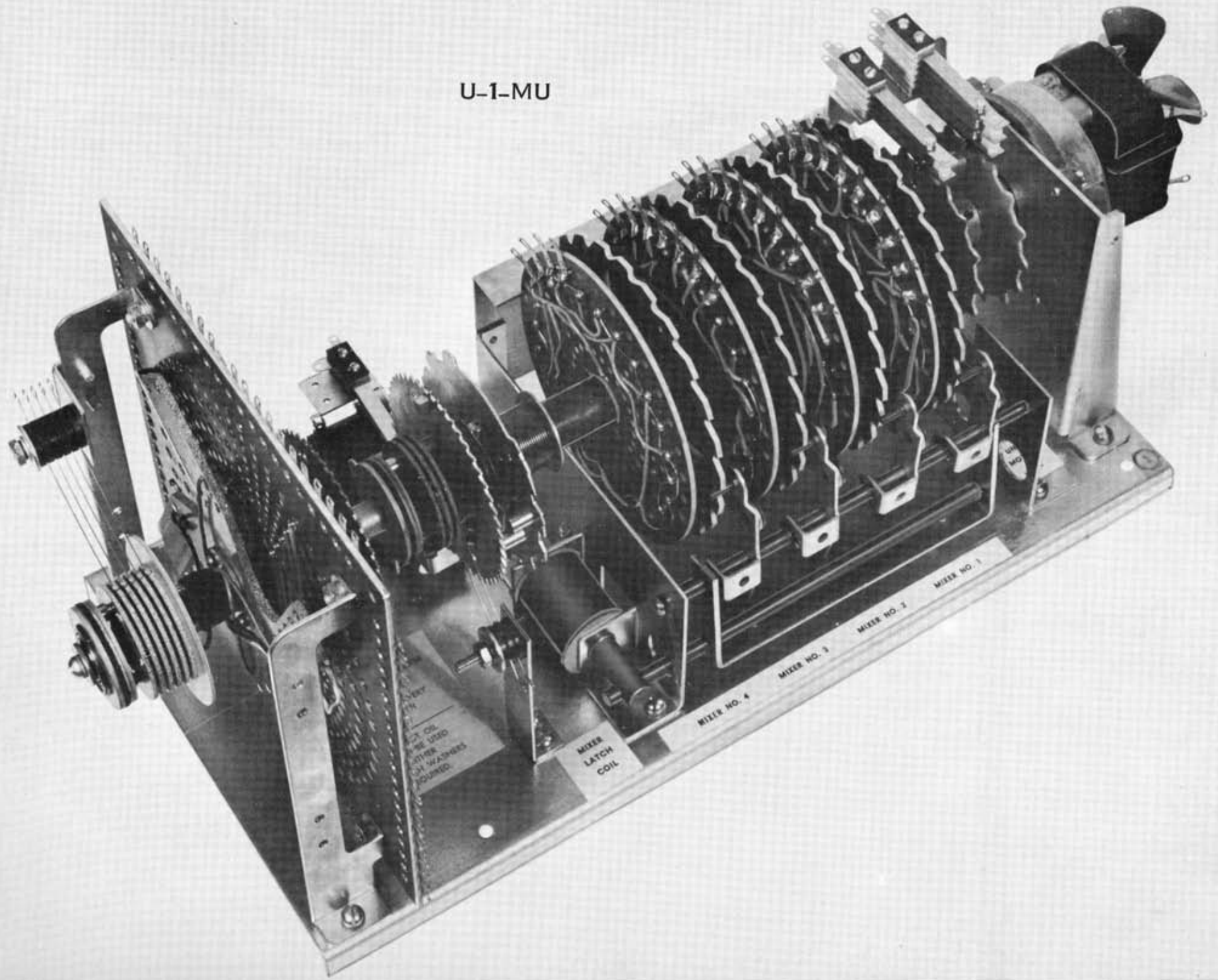
DESCRIPTION

U-1-MU.....	Mixer Unit Complete.....
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For Mixer Unit Parts, see following pages for part numbers and description.

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U-1-MU



SECTION 2b

U-1-MU

Mixer
Unit
Complete

PART NUMBER

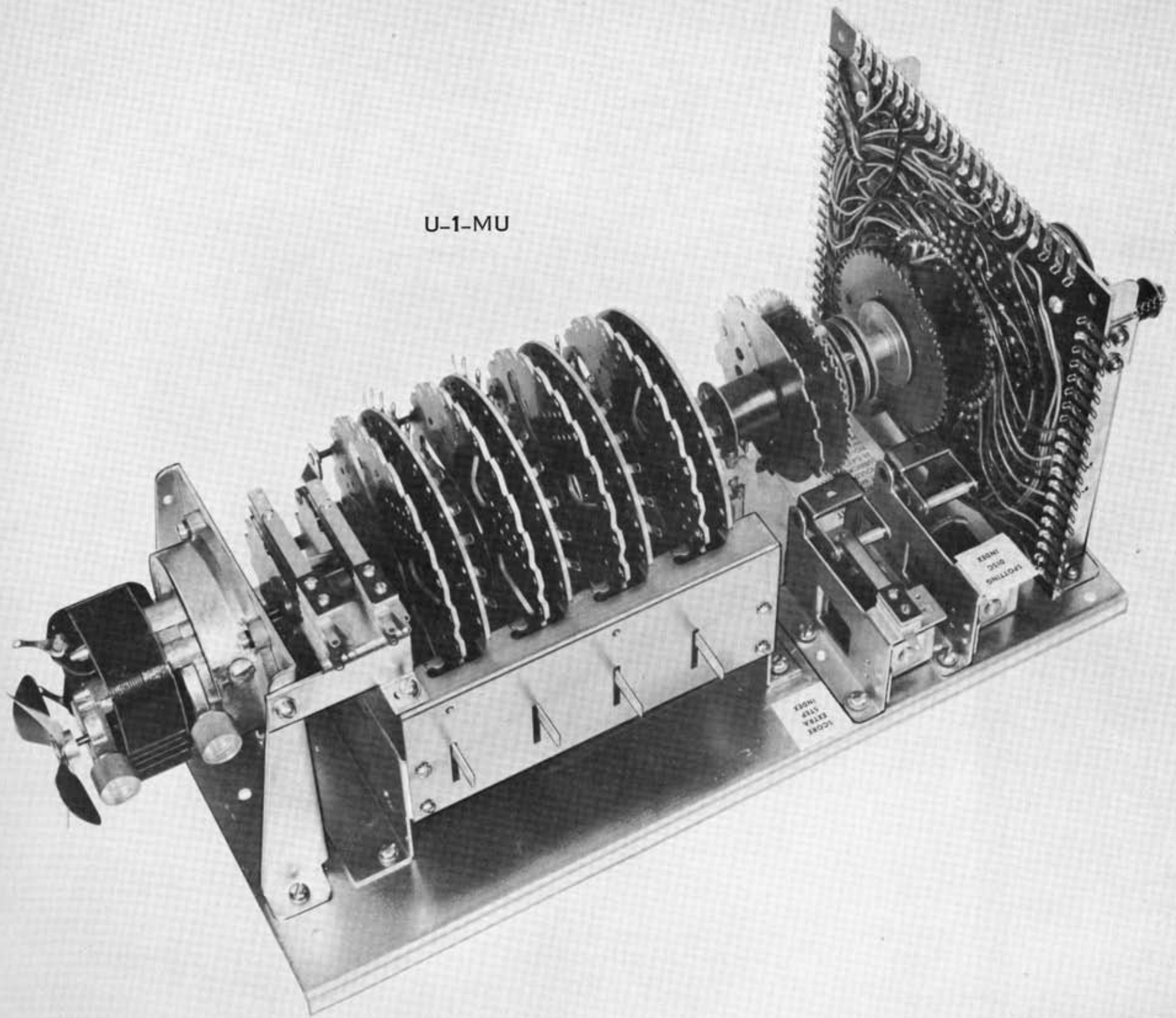
DESCRIPTION

U-1-MU.....	Mixer Unit Complete.....
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For Mixer Unit Parts, see following pages for part numbers and description.

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U-1-MU



SECTION 2c

U-1-MU

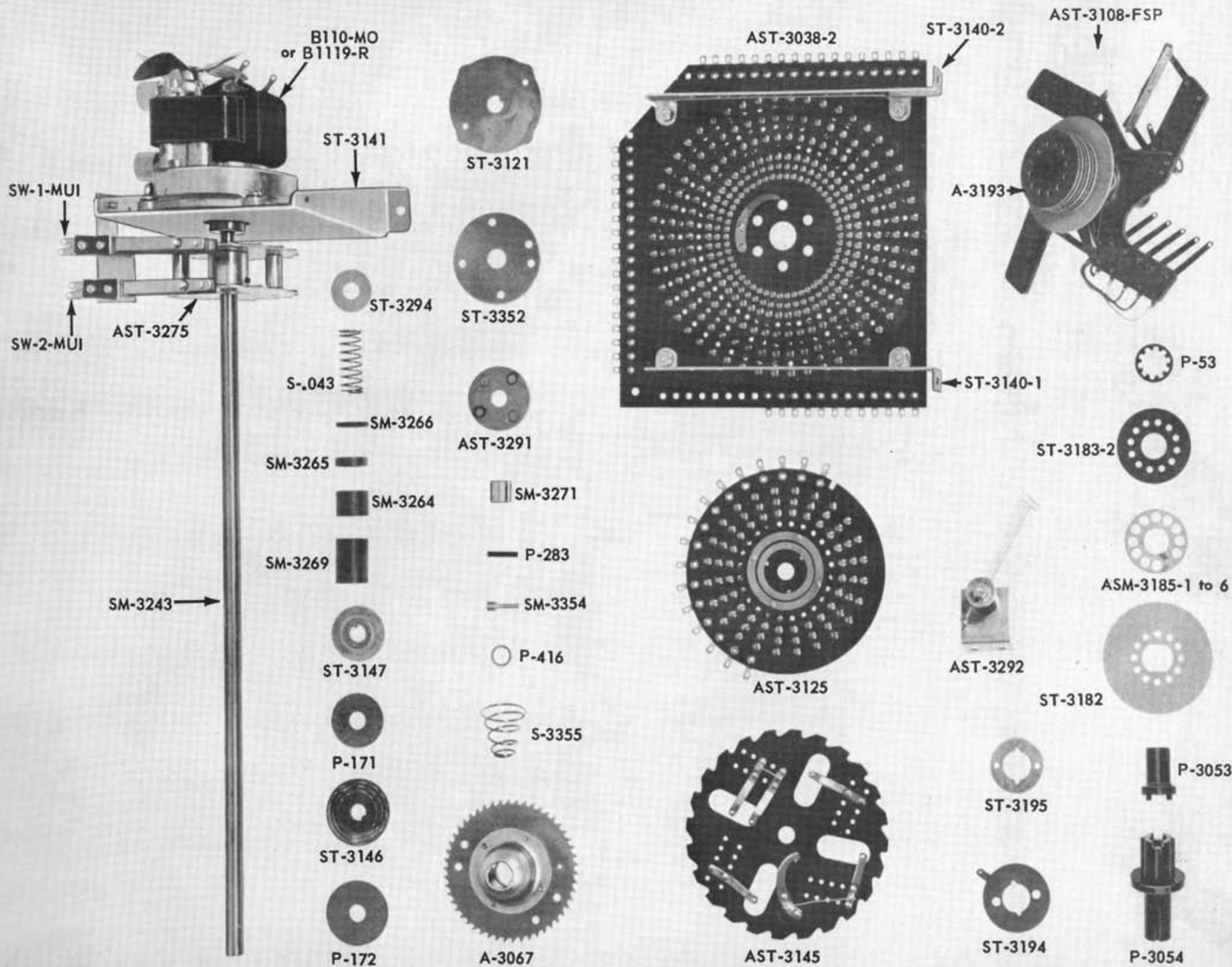
Mixer
Unit
Parts

PART NUMBER

DESCRIPTION

U-1-MU	Mixer Unit Complete	See Sections 2a and 2b
B110-MO	Merkle-Korff Motor	} State which
B1119-R	Heavy Duty Gear Motor	
ST-3141	Motor Mounting Plate	
AST-3275	Mixer Unit Impulse Cam Assembly	
SW-1-MUI	Mixer Unit Impulse Switch #1	
SW-2-MUI	Mixer Unit Impulse Switch #2	
SM-3243	Main Shaft, Mixer Unit	
ST-3294	Thrust Washer	
S-.043	Compression Spring	
SM-3266	Spacer #3	
SM-3265	Spacer #2	
SM-3264	Spacer #1	
SM-3269	Main Shaft Collar	
ST-3147	Serrated Drive Washer (1-1/4")	
P-171	Chrome Leather Washer (Small)	
ST-3146	Serrated Drive Washer (1-1/2")	
P-172	Chrome Leather Washer (Large)	
ST-3121	Latch Release Cam, Only #1 Shown - Specify Number	
ST-3352	Clutch Face Washer Scan Ratchet	
AST-3291	Drive Washer Assembly	
SM-3271	Main Shaft Spacer	
P-283	1/8 x 3/4 Spring Pin	
SM-3354	Clutch Drive Pin	
P-416	3/8 x 1/2 Special Washer	
S-3355	Compression Spring	
A-3067	Spotting Disc Index Ratchet Assembly	
AST-3038-2	Mixer Unit Flash & Spot Disc (Wired)	
ST-3140-2	Flash & Spot Disc Mounting Bracket	
ST-3140-1	Flash & Spot Disc Mounting Bracket	
AST-3125	Stationary Mixer Disc Assembly (Wired)..... Specify number of disc	
AST-3145	Rotary Mixer Disc Assembly..... Specify number of disc	
AST-3108-FSP	Mixer Unit Flash & Spot Disc Wiper Assembly Complete	
A-3193	Feed Commutator Assembly Only	
P-53	Fastener, Commutator..... 8063-56-00	
ST-3183-2	Commutator Insulating Ring	
ASM-3185-1 to 6	Commutator Feed Ring (-1 Pin 3/8 Long) (-2 7/16 Long) (-3 1/2 Long) (-4 9/16 Long) (-5 5/8 Long) (-6 21/32 Long)	
ST-3182	Commutator Main Mounting Plate	
P-3053	Commutator Hub	
P-3054	Wiper Hub	
AST-3292	Feed Wires & Mounting Bracket Assembly (Give number of wires)	
ST-3195	Spot Disc Wiper to Hub Carrier Washer	
ST-3194	Spot Disc Wiper Feed Washer	

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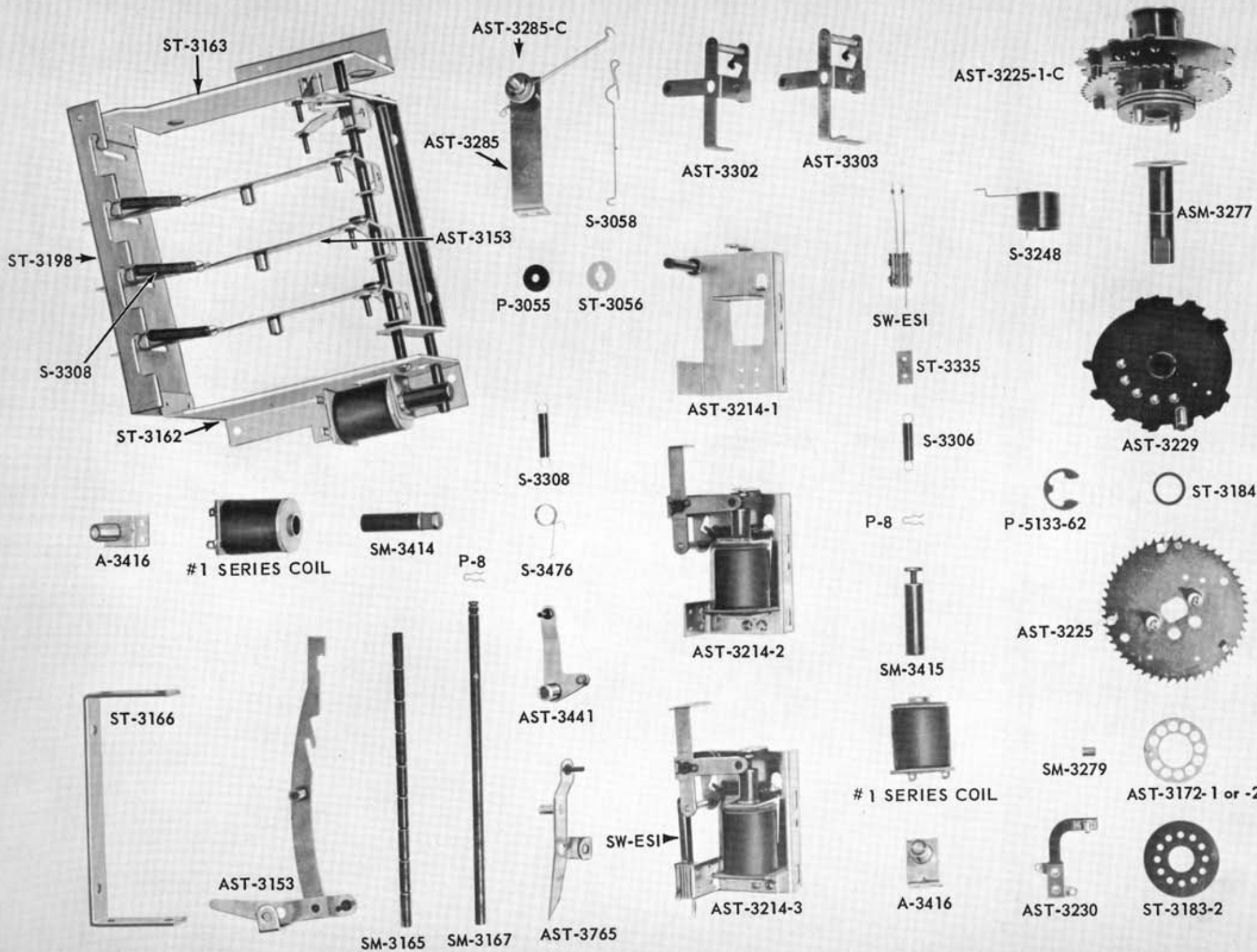


U-1-MU

Mixer
Unit
Parts

PART NUMBER	DESCRIPTION
ST-3162	End Frame #1 of Latch Assembly
ST-3163	End Frame #2 of Latch Assembly
ST-3198	Latch Release Arm Guide Plate
S-3308	Latch Spring
AST-3153	Latch Release Arm Assembly
AST-3285-C	Commutator Feed Wipers & Bracket Assembly Complete
AST-3285	Commutator Feed Wiper Bracket Assembly Only
S-3058	Feed Wiper Spring
P-3055	Feed Wiper Spring Spacer
ST-3056	Slotted Washer
AST-3302	Spotting Disc Index Latch Arm Assembly
AST-3303	Score Extra Step Index Latch Arm Assembly
AST-3214-1	Score Extra & Spotting Disc Index Units Frame Assembly Only
AST-3214-2	Spotting Disc Index Unit Complete
AST-3214-3	Score Extra Step Index Unit Complete
A-3416	Solenoid Stop Assembly
#1 Series	Solenoid Coil
SM-3414	Latch Solenoid Armature
ST-3166	Latch Arm Actuator Frame
SM-3165	Latch Arm Shaft
SM-3167	Latch Arm Actuator Shaft
P-8	3/16 Hair Pin Clip
S-3476	Escapement Lever Spring
AST-3441	Escapement Lever Assembly
AST-3765	Latch Arm Mixer Disc
SW-ESI	Extra Step Index Switch
ST-3335	Nut Plate, Switch
S-3306	Latch Arm Spring
SM-3415	Latch Solenoid Armature
S-3248	Torsion Spring
P-5133-62	Tru-Arc Retainer Ring
SM-3279	Nut, Grounding Ring Mounting Stud
AST-3230	Multiple Score Step Up Switch
AST-3225-1-C	Multiple Score Advance Ratchet & Impulse Cam Assembly Complete
ASM-3277	Hub Assembly, Multiple Score Advance
AST-3229	Impulse Cam Assembly
ST-3184	Commutator Filler Ring
AST-3225	Multiple Score Advance Ratchet Assembly
AST-3172-1	Commutator Feed Ring (7/16 Long Pin) Assembly
AST-3172-2	Commutator Feed Ring (9/16 Long Pin) Assembly
ST-3183-2	Commutator Insulator Ring

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U-1-CU

Control
Unit
Complete

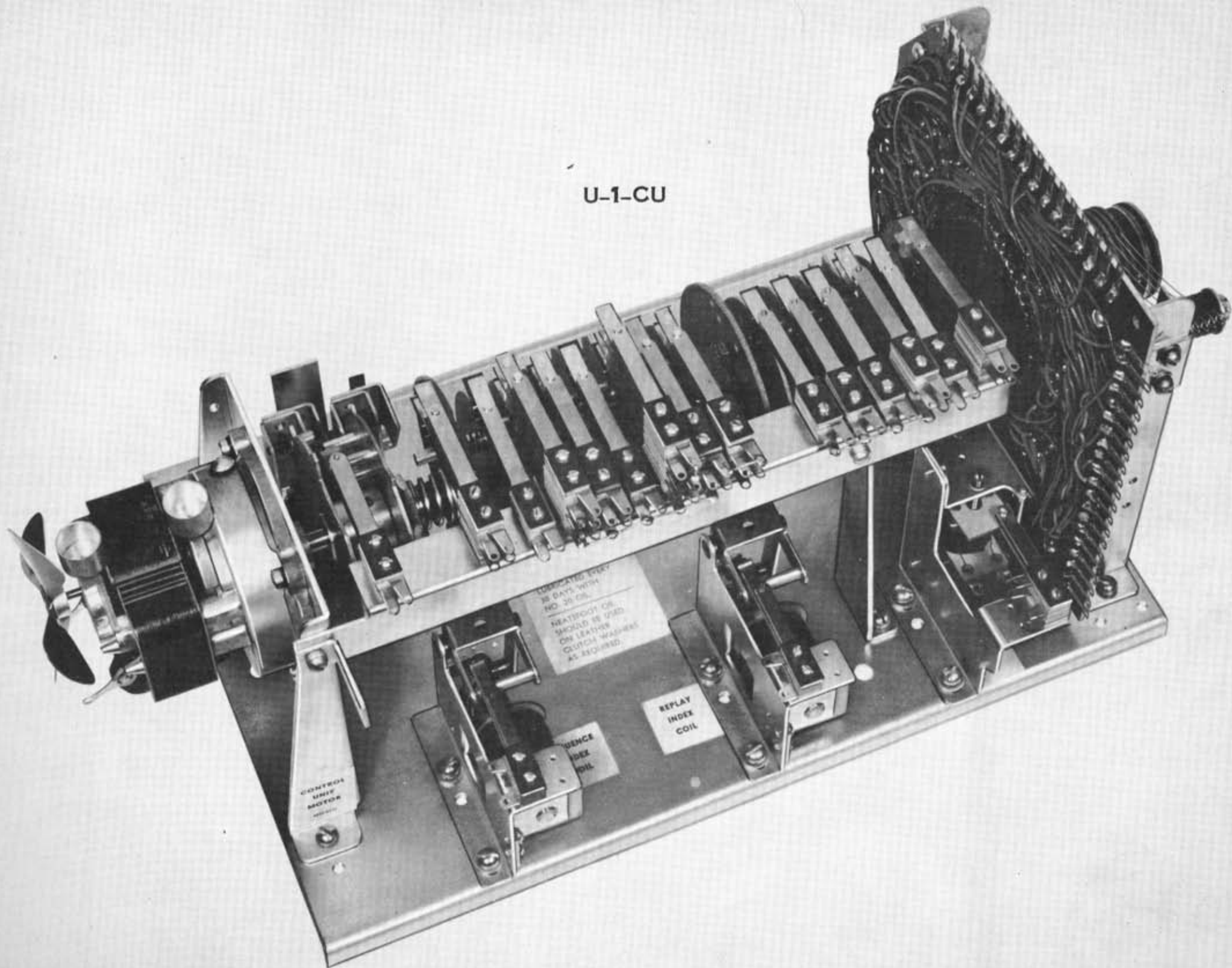
PART NUMBER	DESCRIPTION
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U-1-CU	Control Unit Complete
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For Control Unit Parts, see following pages for part numbers and description.

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U-1-CU



U-1-CU

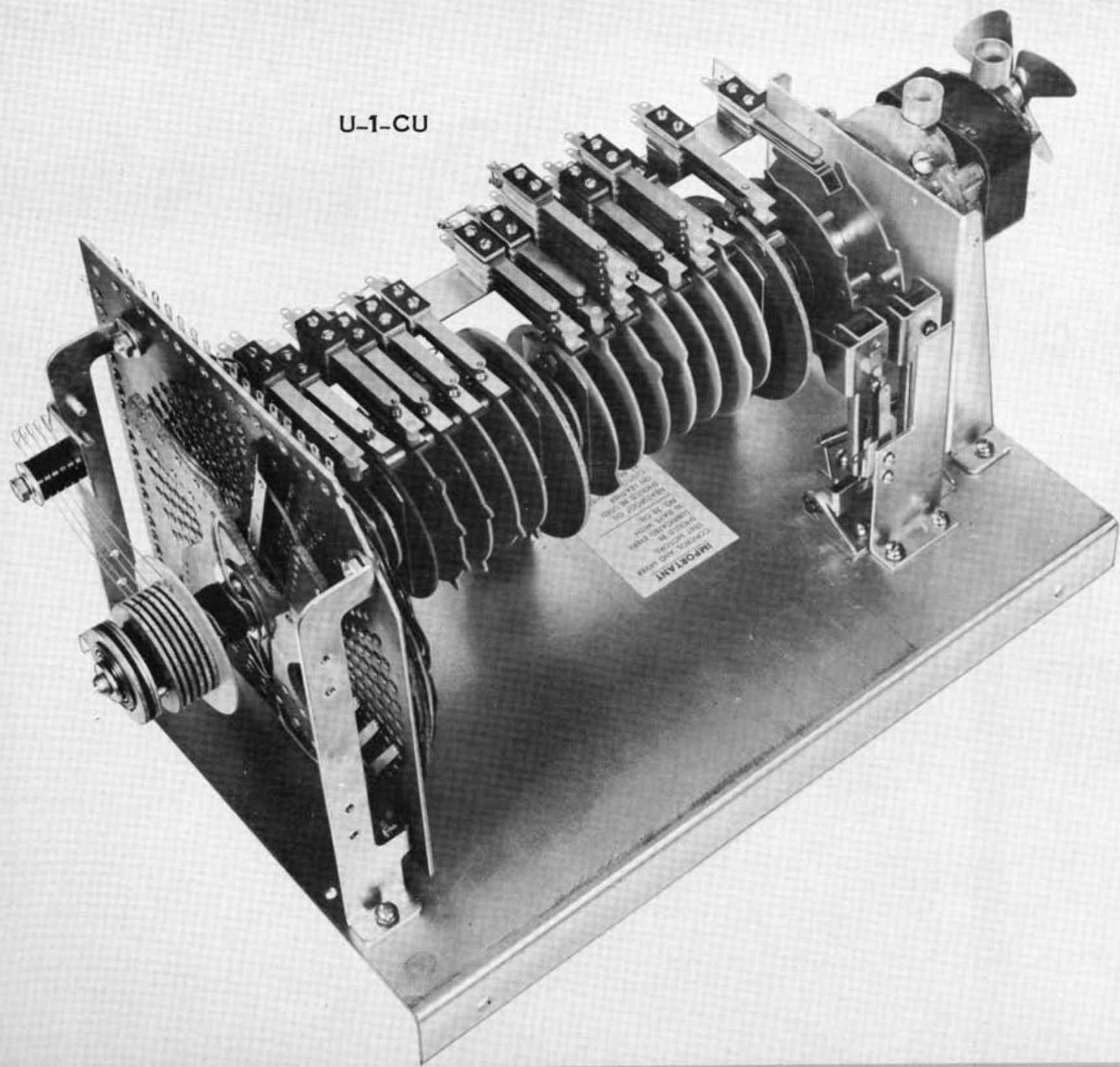
Control
Unit
Complete**PART NUMBER****DESCRIPTION**

U-1-CU Control Unit Complete

For Control Unit Parts, see following pages for part numbers and description.

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U-1-CU



U-1-CU

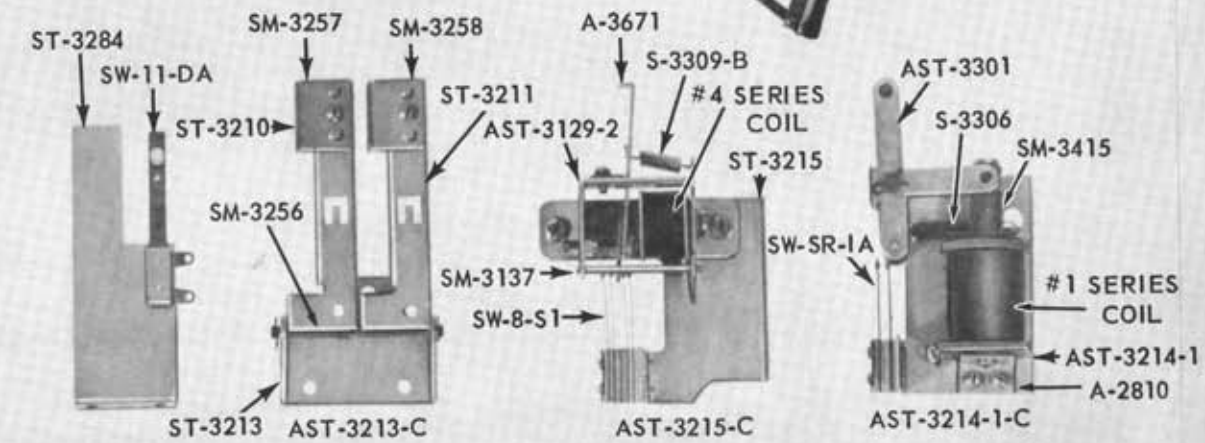
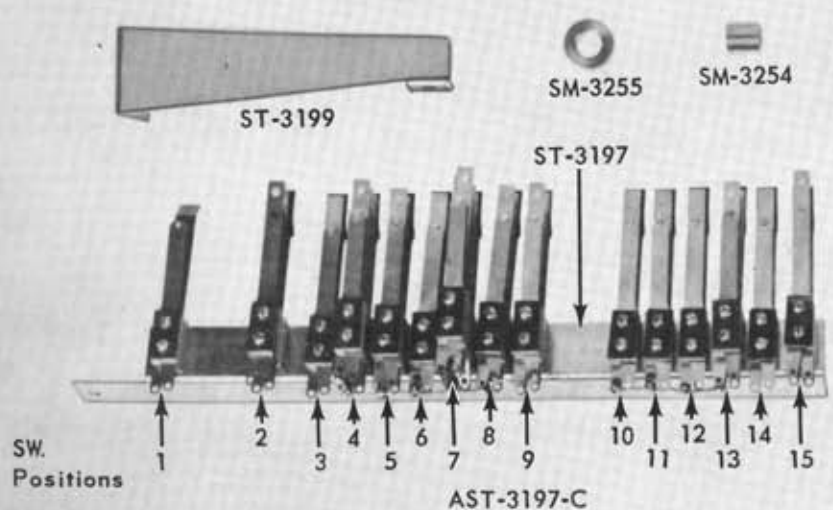
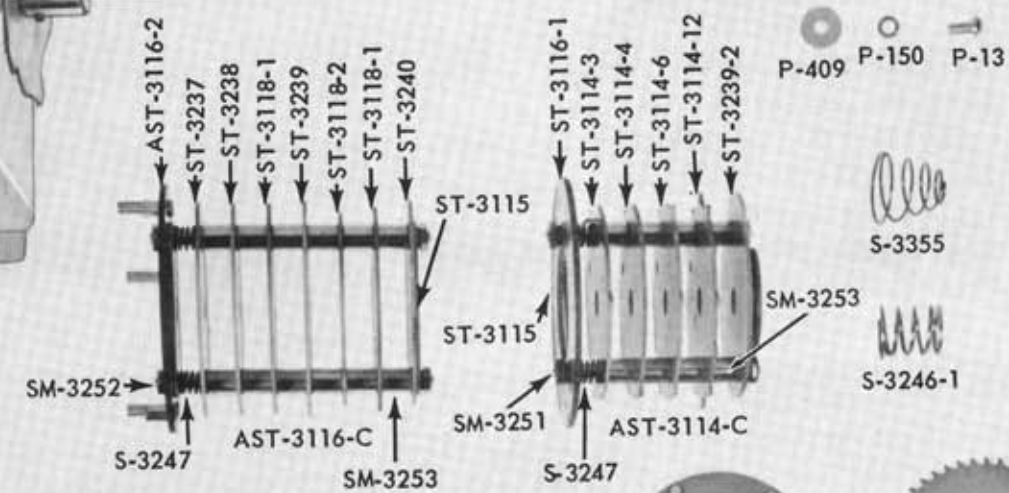
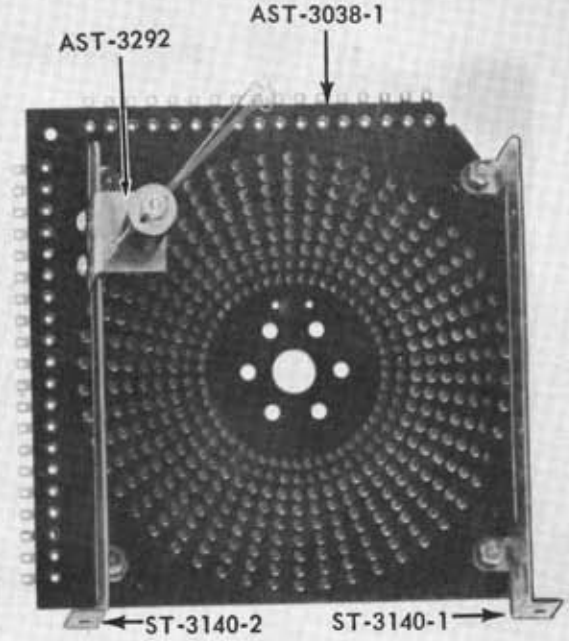
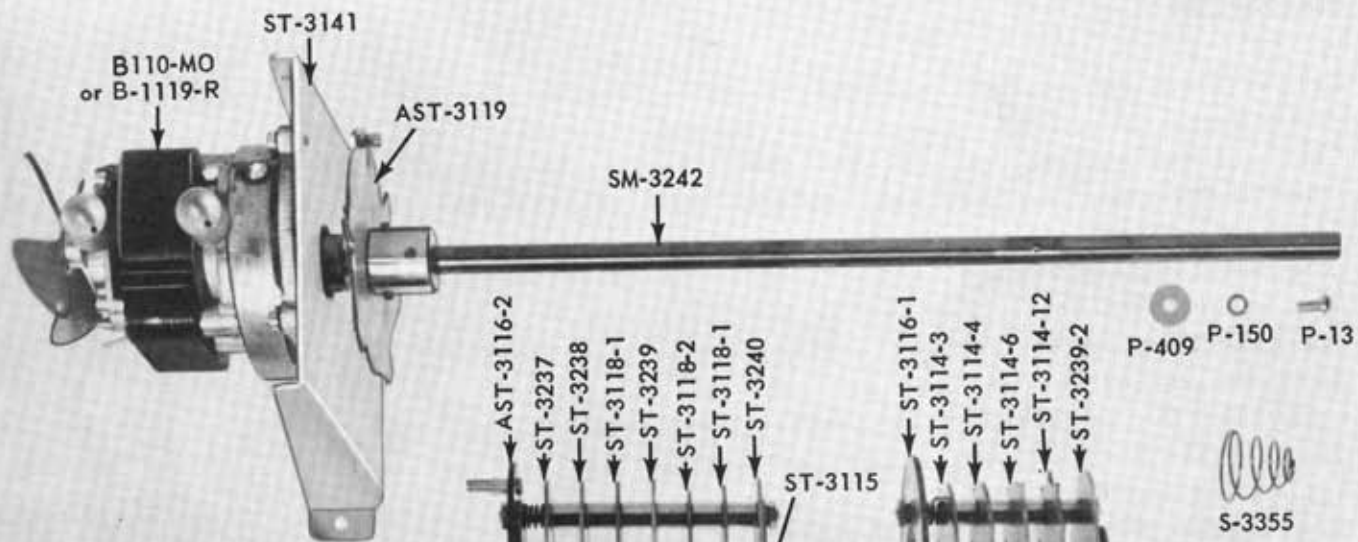
Control
Unit
Parts

PART NUMBER

DESCRIPTION

U-1-CU	Control Unit Complete	See Sections 2e and 2f
B110-MO	Merkle-Korff Motor	} State which
B1119-R	Heavy Duty Gear Motor	
ST-3141	Motor Mounting Plate	
AST-3119	Timer Mixer Cam	
SM-3242	Control Unit Shaft	
ST-3140-1	Scanning Disc Mounting Bracket	
ST-3140-2	Scanning Disc Mounting Bracket	
AST-3292	Feed Wires & Mounting Bracket Assembly	(Give number of wires)
AST-3038-1	Control Unit Scan Disc	(Wired)
AST-3116-C	Sequence Cam Assembly Complete	
AST-3116-2	Sequence Index Clutch Latch Disc	
ST-3237	Sequence Cam #1	
ST-3238	Sequence Cam #2	
ST-3118-1	Reset Impulse Cam	
ST-3239	Sequence Cam #3	
ST-3118-2	Reset Impulse Cam	
ST-3118-1	Reset Impulse Cam	
ST-3240	Sequence Cam #4	
SM-3252	Tie Rod, Sequence Cam Assembly	
S-3247	Compression Spring	
SM-3253	Cam Spacer	
ST-3115	Clutch Slip Plate	
AST-3114-C	Impulse Cam Assembly Complete	
ST-3115	Clutch Slip Plate (Not Visible)	
ST-3116-1	Replay Index Clutch Latch Disc	
ST-3114-3	Payout Impulse Cam	
ST-3114-4	Payout Impulse Cam	
ST-3114-6	Payout Impulse Cam	
ST-3114-12	Payout Impulse Cam	
ST-3239-2	Sequence Cam #3	
SM-3251	Tie Rod, Impulse Cam Assembly	
SM-3253	Cam Spacer	
P-409	3/16 x 5/8 x 1/16 Std. Washer	
P-150	#10 Split Lock Washer	
P-13	10/32 x 3/8 Round Head Machine Screw	
S-3355	Compression Spring	
S-3246-1	Clutch Spring	
AST-3108-S-C	Control Unit Scan Disc Wiper Assembly Complete	

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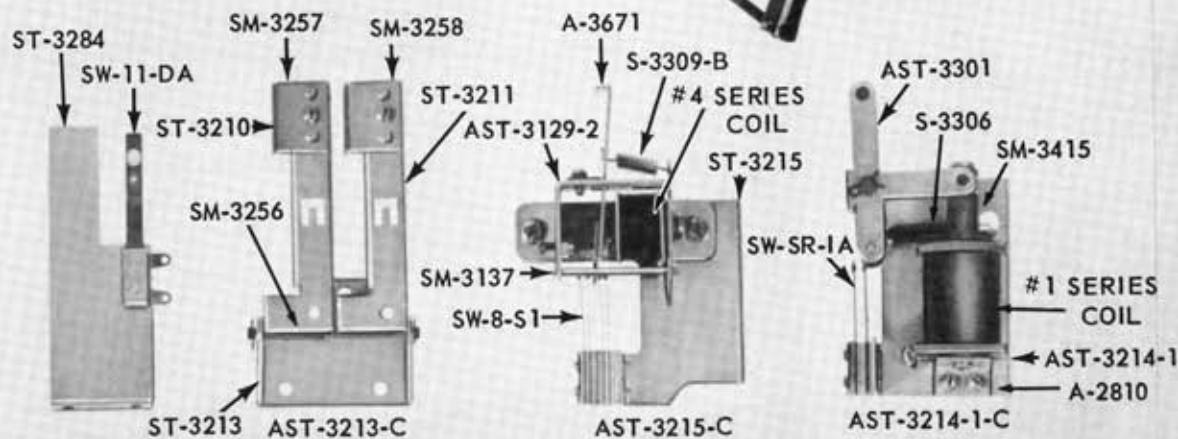
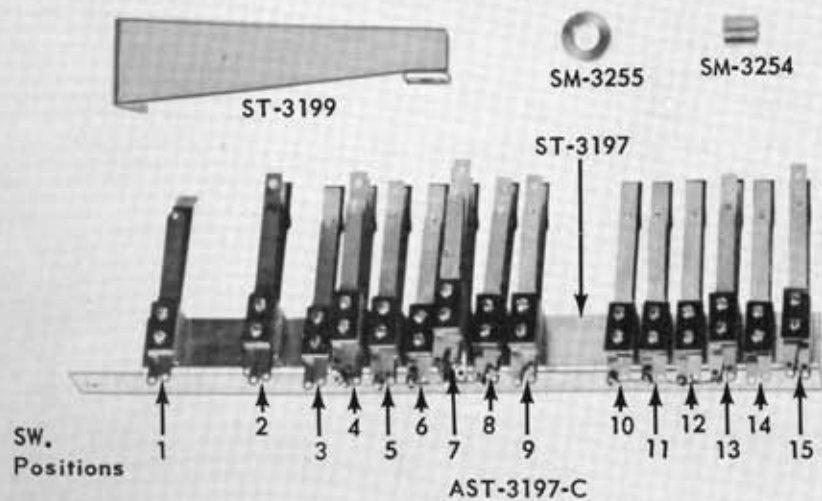
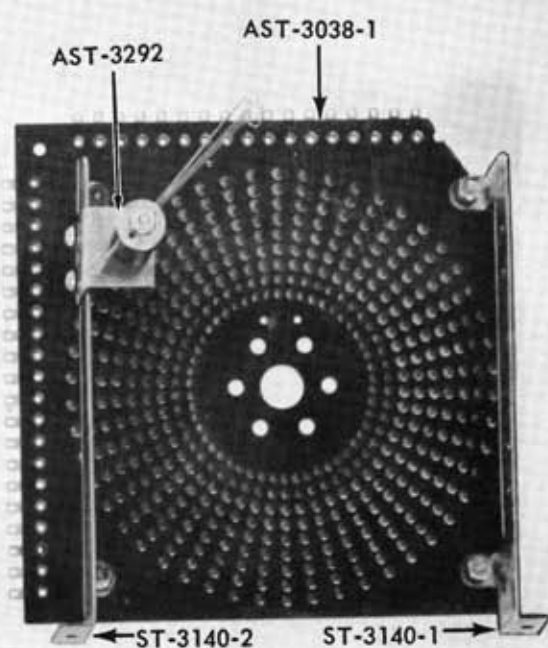
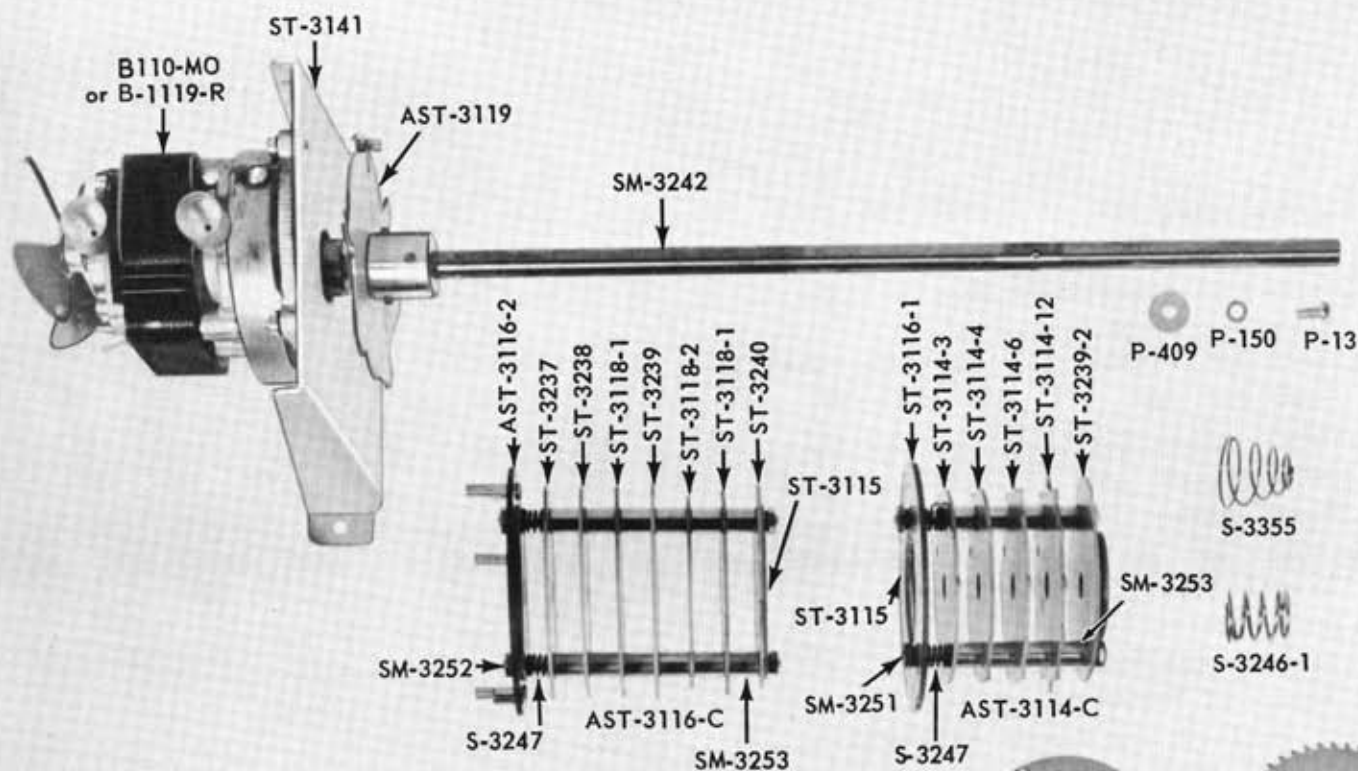
U-1-CU

Control
Unit
Parts

PART NUMBER	DESCRIPTION
AST-3146-2	Clutch Drive Washer Assembly
ST-3146-1	Clutch Washer
P-172	Chrome Leather Washer
AST-3291	Drive Washer Assembly
ST-3352	Clutch Face Washer
AST-3120	Drag Switch Mixer Cam
AST-3068	Scan Index Ratchet Assembly
AST-3197-C	Control Unit Cam Switch Assembly Complete
ST-3197	Switch Mounting Plate Only
Switches	Control Unit Cam Switches (Order by number of switch position)
ST-3284	Switch Support Bracket
SW-11-DA	Control Unit Drag Arm Switch
AST-3213-C	Mixer Latches & Drag Arms Assembly Complete
ST-3213	Mounting Plate, Mixer Latches
SM-3256	Latch Arm Shaft
ST-3210	Mixer Latch Pawl
SM-3257	Cam Follower Roller - Latch Arm
SM-3258	Cam Follower Pin - Latch Arm
ST-3211	Latch Arm, Mixer
AST-3215-C	Scanning Index Coil Assembly Complete
SW-8-SI	Control Unit Scan Index Switch
SM-3137	Relay Frame Brace
AST-3129-2	Relay Frame Assembly Only
ST-3215	Relay Frame Assembly Mounting Frame Only
A-3671	Relay Armature & Index Arm
S-3309-B	Armature Spring
#4 Series	Coil
AST-3214-1-C	Sequence & Replay Index Latch Assembly..... Complete
SW-SR-1A	Sequence & Replay Index Arm Switch
AST-3301	Latch Arm Assembly
S-3306	Latch Arm Spring
SM-3415	Solenoid Armature
#1 Series	Solenoid Coil
AST-3214-1	Mounting Frame Assembly Only
A-2810	Solenoid Stop Assembly
ST-3199	Support Bracket Switch Mounting
SM-3255	Collar Main Shaft - End of Impulse Cam Assembly
SM-3254	Spacer Main Shaft - Between Sequence & Impulse Cam Assembly

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U-1-RB

Relay
Bank
Assembly

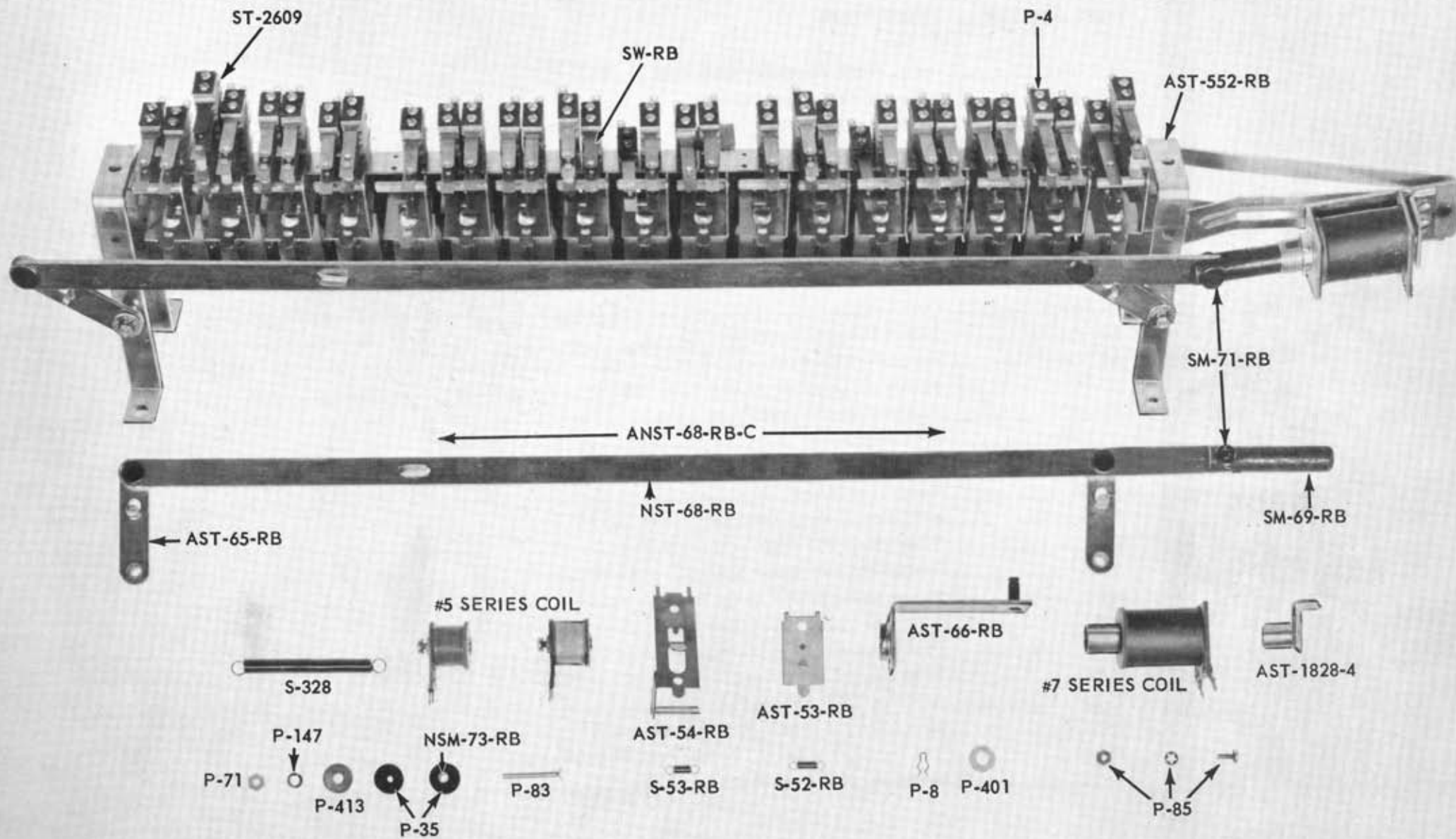
PART NUMBER

DESCRIPTION

U-1-RB	Relay Bank Assembly Complete
AST-552-RB	Relay Bank Frame Assembly
ANST-68-RB-C	Reset Bar Assembly Complete } Give overall length of bar in either the
NST-68-RB	Reset Bar Only } complete assembly or the reset bar only
AST-65-RB	Reset Bar Link Only
SM-69-RB	Reset Armature Only
SM-71-RB	Reset Armature Pin Only
#5 Series	Coil
#7 Series	Solenoid Coil
AST-54-RB	Switch Breaker Assembly } Interchangeable with U-2-RB
AST-53-RB	Armature with Rivet }
AST-66-RB	Reset Coil Bracket Assembly
AST-1828-4	Solenoid Coil Stop Bracket Assembly
SW-RB	Switch.....(Identify with label marking on bank).....
ST-2609	Switch Compression Plate
S-52-RB	Armature Spring
S-53-RB	Switch Breaker Spring
S-328	Reset Bar Spring
P-4	4/36 Round Head Machine Screw..... Give length
P-8	3/16" Hair Pin Clip
P-35	Sponge Rubber Shock Mounts (Without Bushing)
NSM-73-RB	Mounting Bushing for Shock Mounts
P-71	8/32 Nut
P-83	8/32 Flat Head Machine Screw..... Give length
P-85	8/32 x 5/16 Binder Head Machine Screw with Hex Nut & Lock Washer
P-413	#8 x 9/16" x 3/64" Thick Steel Washer
P-401	1/4" x 1/2" x 1/16" Thick Steel Washer
P-147	#8 Split Lock Washer

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U-1-RB



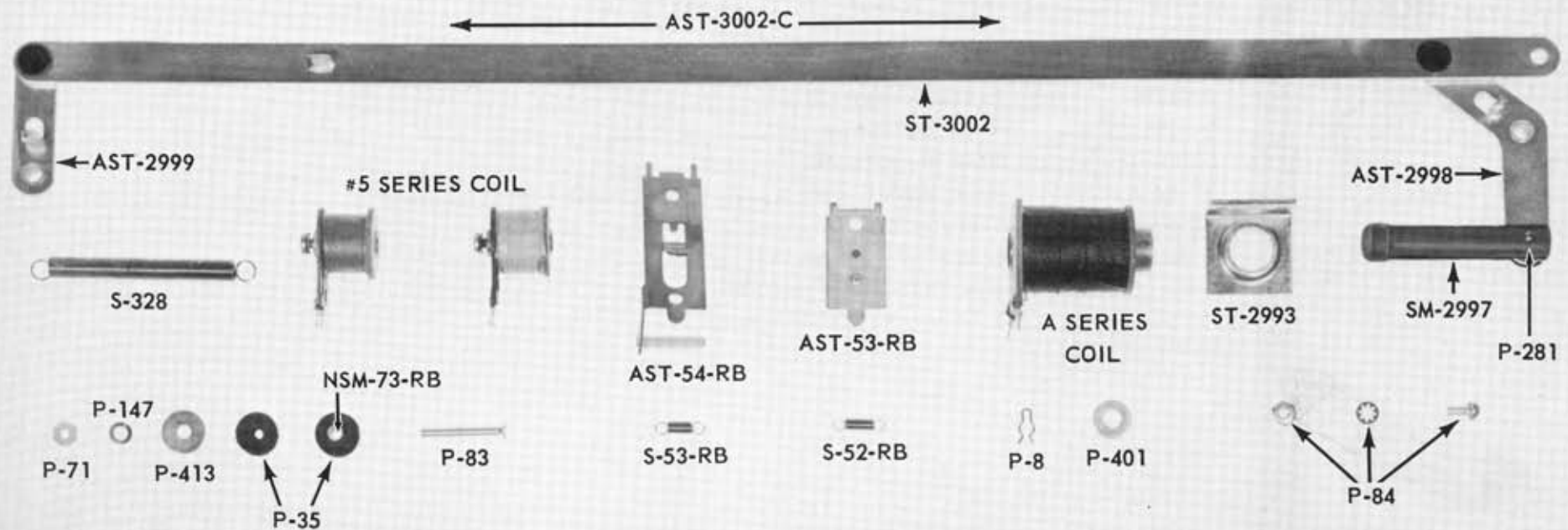
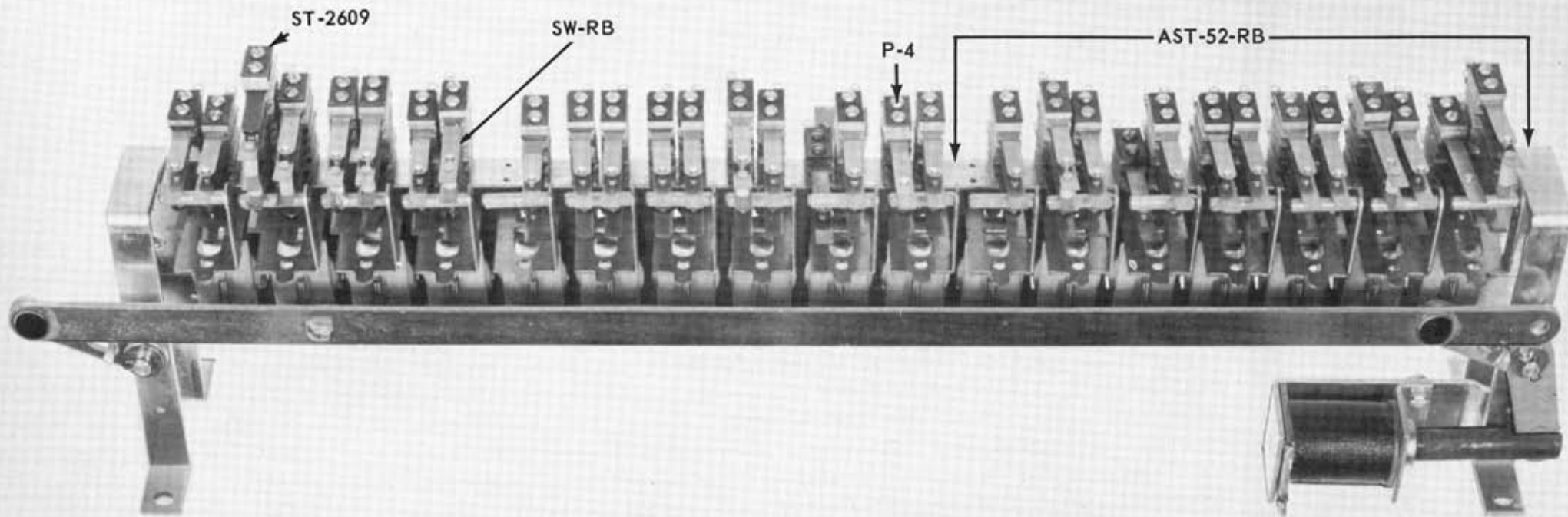
U-2-RB

Relay Bank Assembly

PART NUMBER	DESCRIPTION
U-2-RB	Relay Bank Assembly Complete
AST-52-RB	Relay Bank Frame Assembly
AST-3002-C	Reset Bar Assembly Complete } Give overall length of bar in either the
ST-3002	Reset Bar Only } complete assembly or the reset bar only
SM-2997	Reset Armature Only
AST-2998	Link Assembly only(less Armature)
AST-2999	Link Assembly only
ST-2993	Coil Retainer
A Series	Solenoid Coil
#5 Series	Coil
AST-54-RB	Switch Breaker Assembly } Interchangeable with U-1-RB only
AST-53-RB	Armature With Rivet }
SW-RB	Switch (Identify switch with label marking on Bank)
ST-2609	Switch Compression Plate
S-52-RB	Armature Spring
S-53-RB	Switch Breaker Spring
S-328	Reset Bar Spring
P-4	4/36 Round Head Machine ScrewGive length
P-8	3/16" Hair Pin Clip
P-35	Sponge Rubber Shock Mounts.....(without bushing)
NSM-73-RB	Mounting Bushing For Shock Mounts
P-71	8/32 Nut
P-83	Flat Head Machine Screw.....Give Length
P-84	8/32 x 3/8 Round Head Machine Screw With Nut And Lock Washer
P-281	3/16" x 1/2" Spring Pin
P-413	#8 x 9/16" x 3/64" Thick Steel Washer
P-401	1/4" x 1/2" x 1/16" Thick Steel Washer
P-147	#8 Split Lock Washer

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U-2-RB



U-3-RB

Relay
Bank
Assembly

PART NUMBER	DESCRIPTION
U-3-RB	Relay Bank Assembly Complete
AST-3425	Relay Bank Frame Assembly
AST-3002-C	Rest Bar Assembly Complete
ST-3002	Reset Bar Only
SM-2997	Reset Armature Only
AST-2998	Link Assembly Only (Less Armature)
AST-2999	Link Assembly Only
AST-1828-4	Solenoid Stop Bracket Assembly
A Series	Solenoid Coil
#5 Series	Coil
AST-2995	Switch Actuator Assembly
AST-2996	Armature with Rivet
SW-RB	Switch (Identify Switch w/Label marking on Bank)
ST-2609	Switch Compression Plate
S-52-RB	Armature Spring
S-53-RB	Switch Actuator Spring
S-2-SU	Reset Bar Spring
S-3192	Shock Mount Spring
ST-4481	Relay Bank Cover
ST-4693	Cable Support
P-96	8/32 x 2 1/4 Carriage Bolt
P-66	8/32 Shake Proof Hex Nut
P-65	8/32 Special 1/4 O.D. Nut
P-281	3/16" x 1/2" Spring Pin

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U-3-RB

SW-RB

ST-2609

AST-3425

ST-4481

ST-3002

AST-2999

AST-3002-C

AST-2998

SM-2997

P-281

NO. 5 SERIES COIL

AST-2995

AST-2996

A-SERIES COIL

AST-1828-4

ST-4693

P-96

P-66

P-65

S-52-RB

S-53-RB

S-3192

S-2-SU

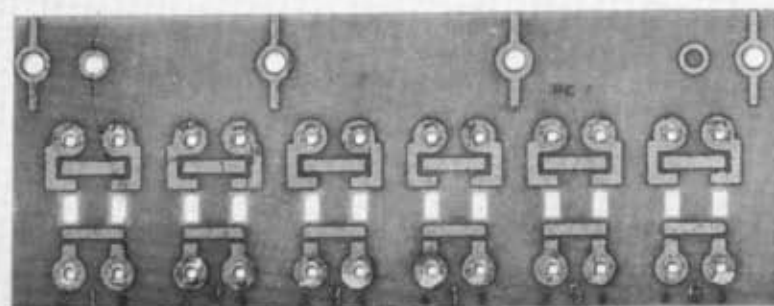
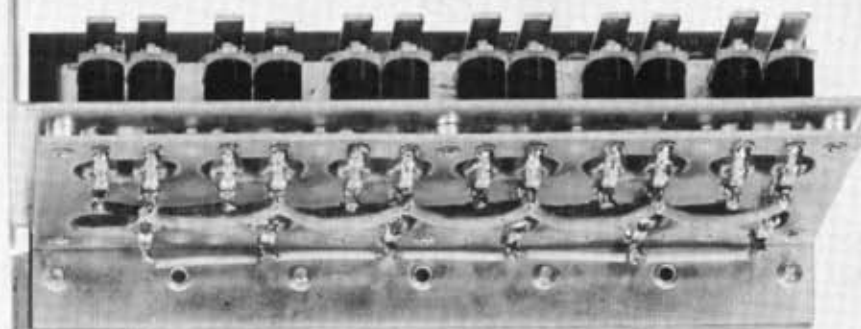
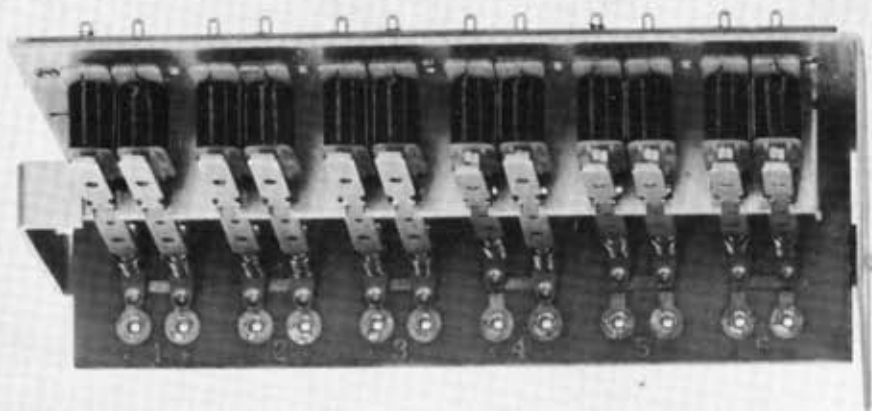
A-2650-6

Latch Group Relay Assembly

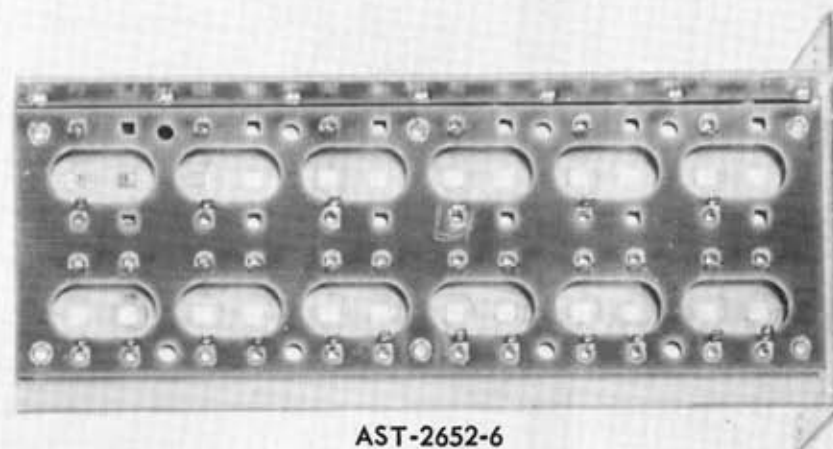
PART NUMBER	DESCRIPTION
A-2650-6	Latch Group Relay Assembly Complete
PC-2663-6.....	Latch Group Relay Printed Circuit
AST-2652-6	Latch Group Relay Frame And Terminal Plate Assembly.....
AST-3073	Retaining Bracket Assembly
ST-3075	Retaining Bracket
AST-2654-A.....	Armature and Contactor Assembly
ST-2654A	Armature Only
AST-2654-B.....	Armature and Contactor Assembly.....
ST-2654-B.....	Armature Only
P-2655	Contactor Spring Only
ST-2656.....	Contactor Only
A-2658.....	Coil Assembly
ST-2659	Pole Piece.....(Uses 2 pieces per coil assembly).....
SM-2661.....	Hex Nut.....(For pole piece and coil assembly)
P-2662	Armature Spring

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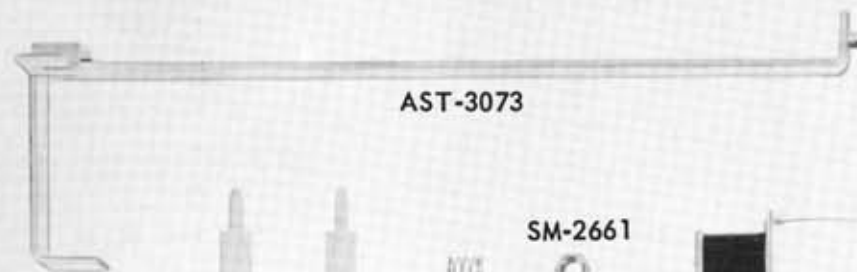
A-2650-6



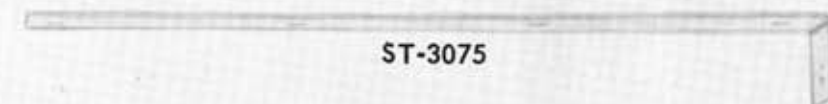
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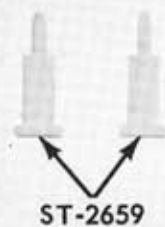
AST-2652-6



AST-3073



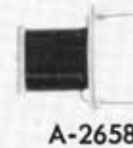
ST-3075



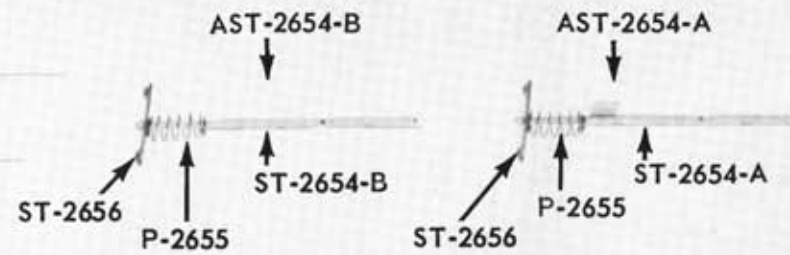
ST-2659

P-2662

SM-2661



A-2658



AST-2654-B

AST-2654-A

ST-2656

P-2655

ST-2654-B

ST-2656

P-2655

ST-2654-A

U-1-SMU

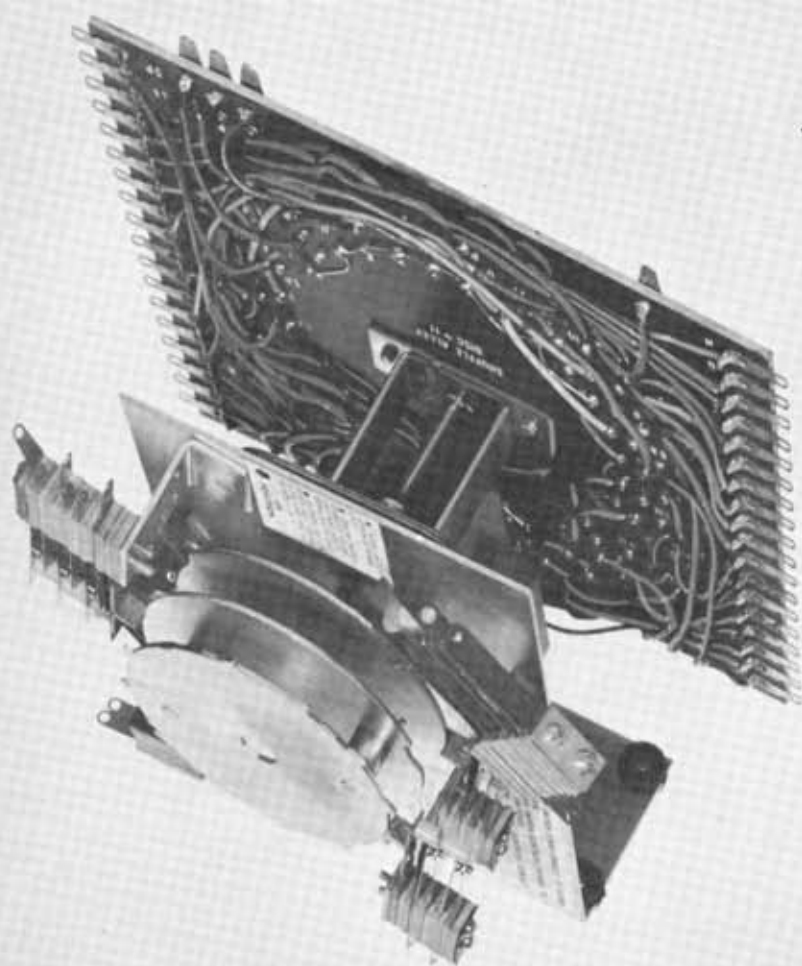
Scoring
Motor
Unit

PART NUMBER	DESCRIPTION
U-1-SMU.....	Scoring Motor Assembly Complete.....
AST-125-1-MO.....	Scoring Motor Mounting Plate Assembly
AST-128-11-MO.....	Scoring Motor Cam Assembly (Triple Cam).....
5106-MO.....	Motor..... See note below
ACW-SMU.....	Commutator Wiper Assembly (5 finger)
ACP-11-SMU.....	Commutator Plate Assembly
P-89	8-32 x 5/16 Binder Head Machine Screw.....
P-402	5/32 x 3/8 x 1/32 Thick Stl. Washer

Motor shown in the complete assembly view is discontinued, and should be replaced by new design motor 5106-MO, as illustrated on opposite page, lower left.

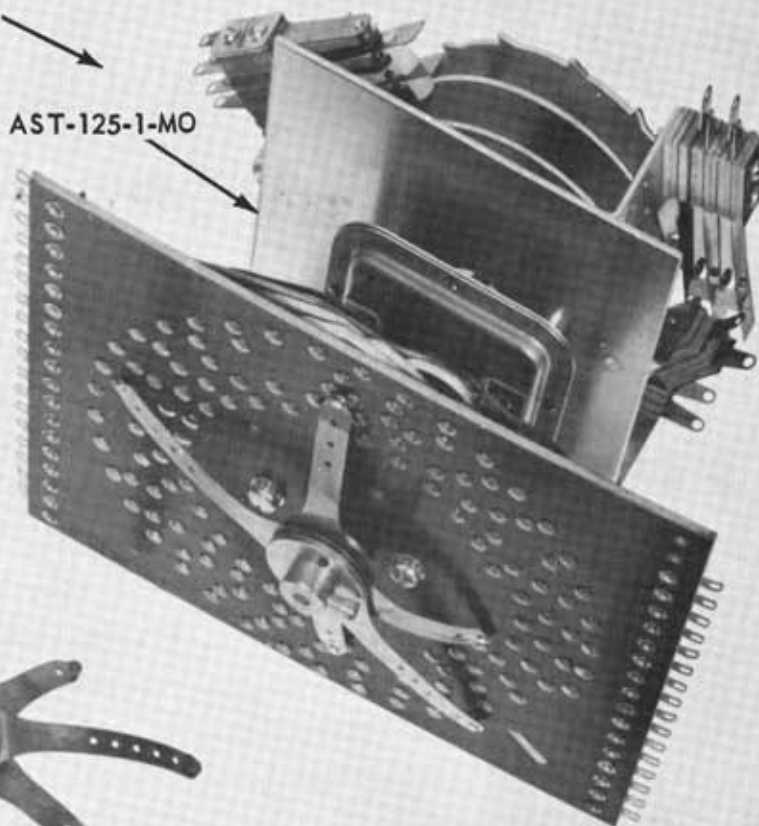
Unit on later model machines have the "6000" Series Motor as shown in section 6d

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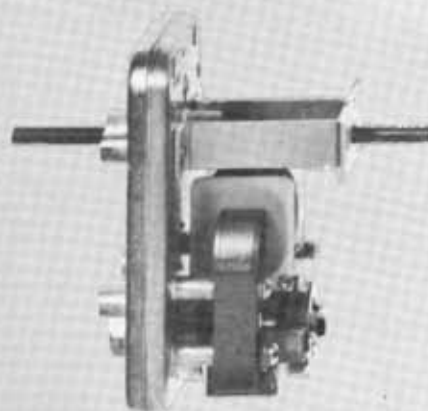


U-1-SMU

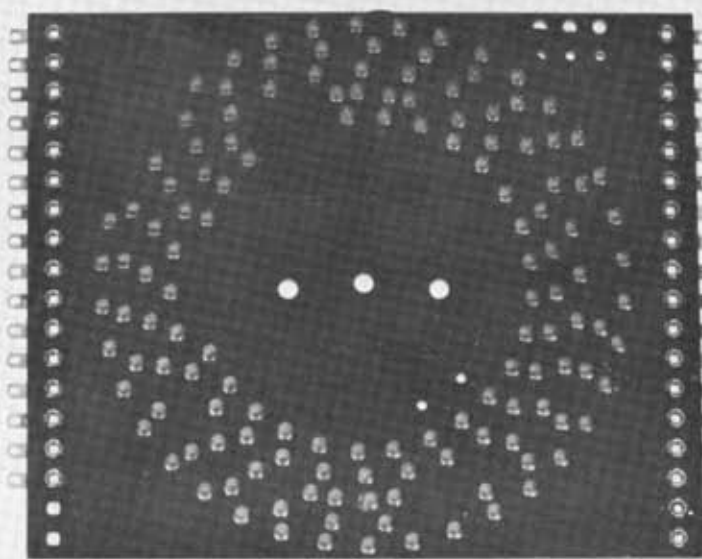
AST-125-1-MO



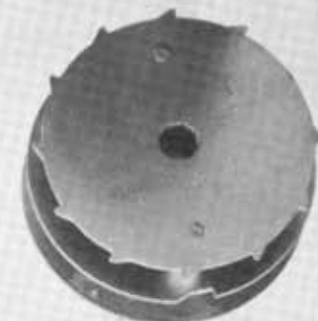
ACW-SMU



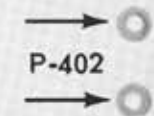
5106-MO



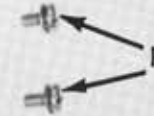
ACP-11-SMU



AST-128-11-MO



P-402



P-89

U-2-FMU

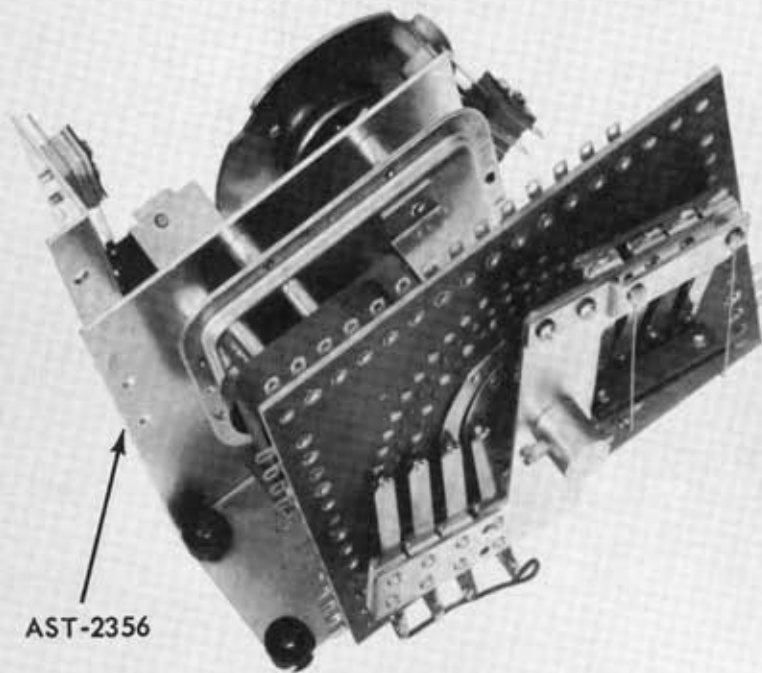
Flash
Motor
Unit

PART NUMBER	DESCRIPTION
U-2-FMU.....	Flash Motor Unit Complete
AST-2356.....	Flash Motor Mounting Plate Assembly.....
ACP-FMU	Flash Motor Commutator Plate
ST-2380	Commutator Insulator
5103-MO	Motor..... See note below
SM-2362	Clutch Adjustment Collar
231-U-113	"D" Washer
ACW-2409-FMU.....	Flash Motor Commutator Wiper Arm Assembly
ST-2844	Flash Motor Mixer Cam
AST-1605-1.....	Armature Assembly
AST-2459.....	14 T - Ratchet Assembly
S-55-2	Spring
S-3669	Clutch Spring
#6 Series	Coil
P-89	8-32 x 1/4 Binder Head Machine Screw
P-171	13/32 x 1 1/4 x 1/16 Chrome Leather Washer
SW-FMR.....	Flash Motor Release Coil Switch
SW-FMC.....	Flash Motor Cam Switch

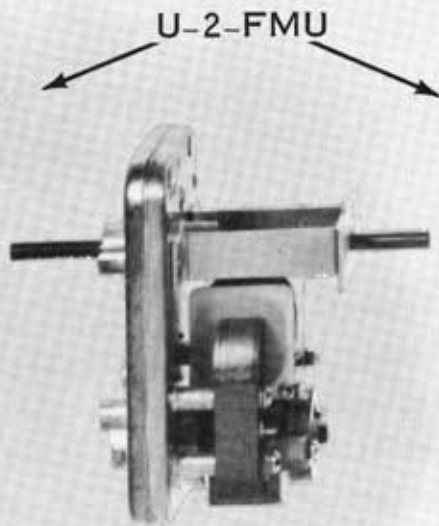
Motor shown in the complete assembly view is discontinued, and should be replaced by new design motor 5103-MO, as illustrated on opposite page, upper center.

Unit on later model machines have the "6000" Series Motor as shown in section 6d

TO AVOID
DELAY
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PART NUMBER
WITH
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SERIAL
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OF GAME

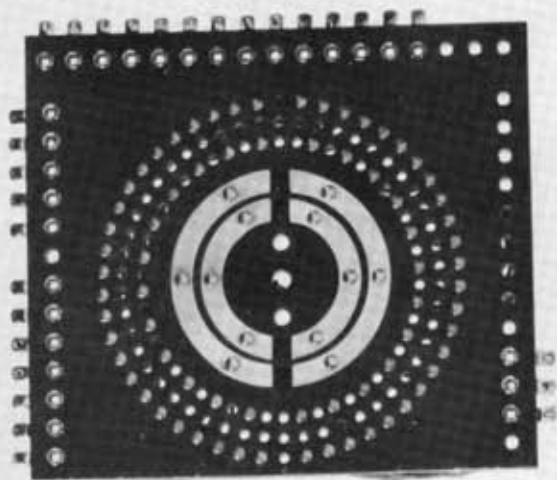
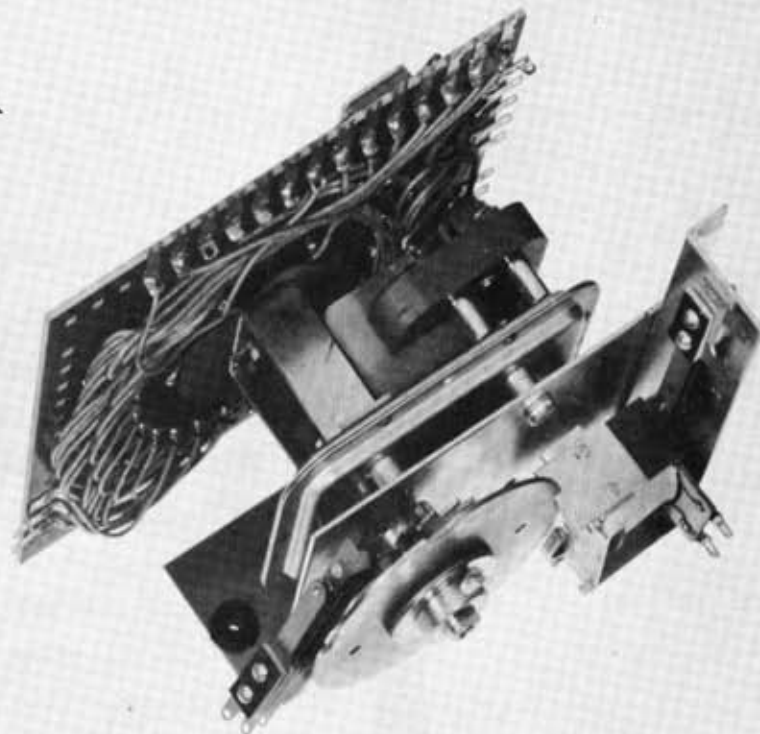


AST-2356

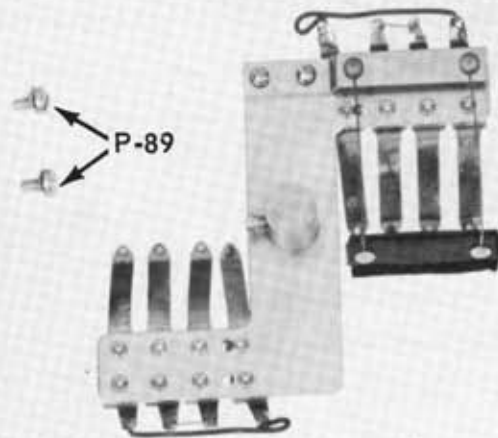


U-2-FMU

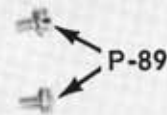
5103-MO



ACP-FMU



ACW-2409-FMU



P-89



S-55-2



AST-1605-1

#6 SERIES COIL



SW-FMC



SW-FMR



ST-2380



SM-2362



231-U-113



P-171



ST-2844



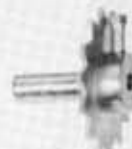
P-171



231-U-113



S-3669



AST-2459

U-3-FMU

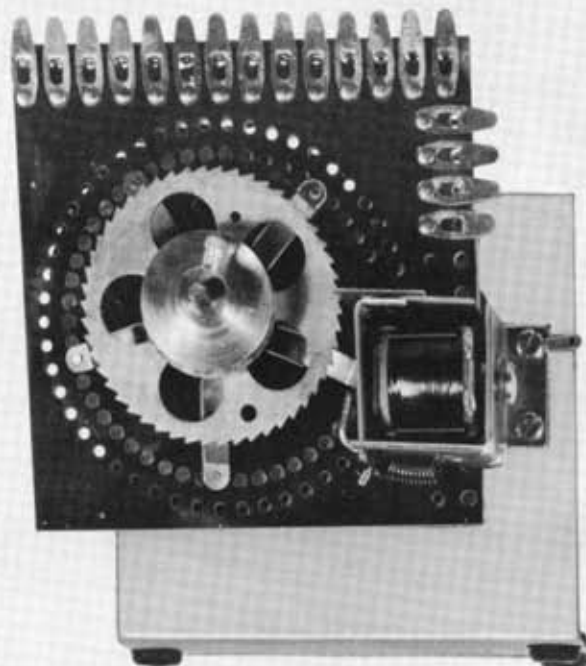
Flash
Motor
Unit

PART NUMBER	DESCRIPTION
U-3-FMU	Flash Motor Unit Complete
AST-3155	Flash Motor Mounting Plate Assembly
ACP-FMU	Flash Motor Commutator Plate
AST-1605-1	Armature Assembly
ANST-7-SU	Clutch Ratchet Assembly
ST-27-AC-S	Relay Bracket (Short)
SM-3157	Rear Clutch Plate
5109-MO	Motor See note below
#6 Series	Coil
ACW-FMU	Flash Motor Commutator Wiper Assembly (5 finger welded)
P-3160	Cork Clutch Washer
S-55-1	Spring
S-3370-2	Clutch Spring
P-3	Solder Lug
P-89	8-32 x 1/4 Binder Head Machine Screw
P-95	6-32 x 5/16 Binder Head Machine Screw
P-402	5/32 x 3/8 x 1/32 Steel Washer

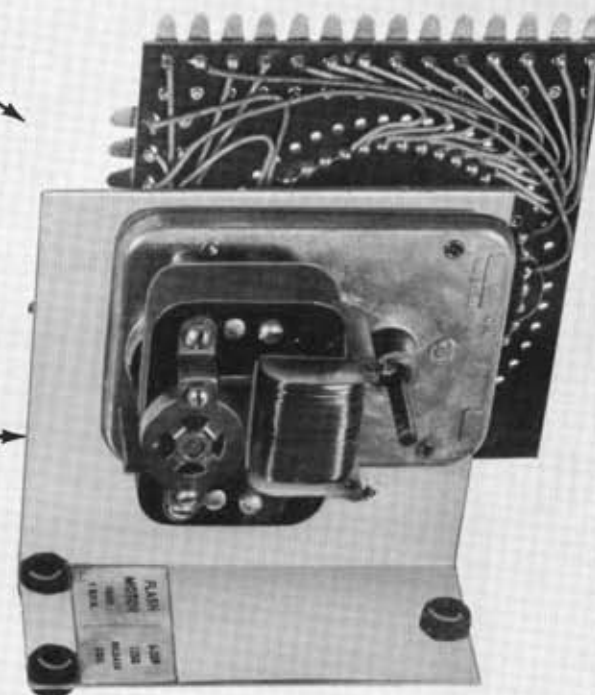
Motor shown in the complete assembly view is discontinued, and should be replaced by new design motor 5109-MO, as illustrated on opposite page, lower right.

Unit on later model machines have the "6000" Series Motor as shown in section 6d

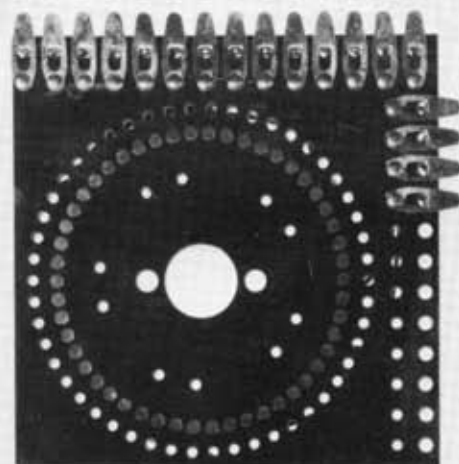
TO AVOID
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U-3-FMU



AST-3155



ACP-FMU

AST-1605-1



#6 SERIES
COIL



S-55-1



ST-27-AC-S



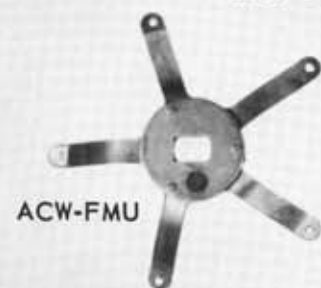
P-89



P-3



5109-MO



ACW-FMU

P-402



P-95



S-3370-2



ANST-7-SU



P-3160



SM-3157

U-3-SHMU

Shuffle
Motor
Unit

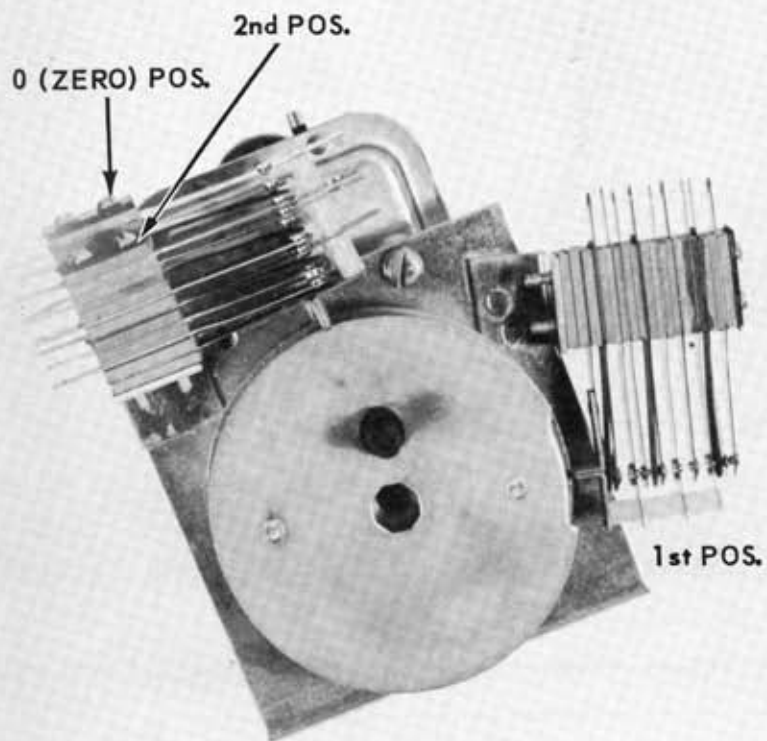
PART NUMBER	DESCRIPTION
U-3-SHMU	Shuffle Motor Unit Complete
5102-MO	Motor See note below
A-2333	Shuffle Motor Bracket Assembly
A-2334	Shuffle Motor Cam Assembly
AST-2421	Shuffle Drive Link Assembly
S-2424	Shuffle Spring
P-8	3/16 Hair Pin Clip
P-401	1/4 x 1/2 x 1/16 Steel Washer
P-89	8-32 x 5/16 Binder Head Machine Screw
SW-O-SHMU	O (Zero) Position Switch
SW-1-SHMU	1st Position Switch
SW-2-SHMU	2nd Position Switch

For various SWITCH BUILD-UPS for different games you must specify name & serial number of game, plus position, label marking and description.

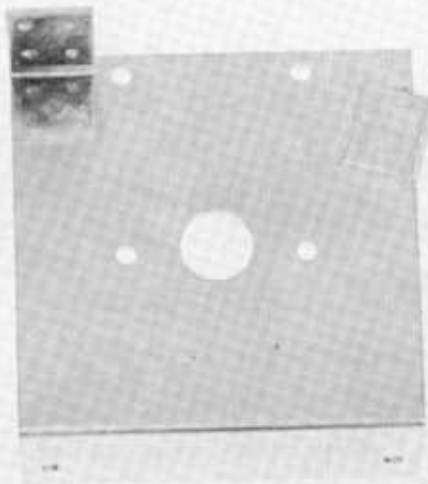
Motor shown in the complete assembly view is discontinued, and should be replaced by new design motor 5102-MO, as illustrated on opposite page, lower right.

Unit on later model machines have the "6000" Series Motor as shown in section 6d

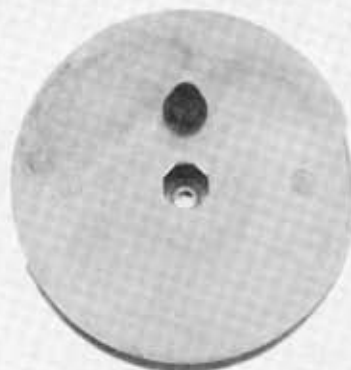
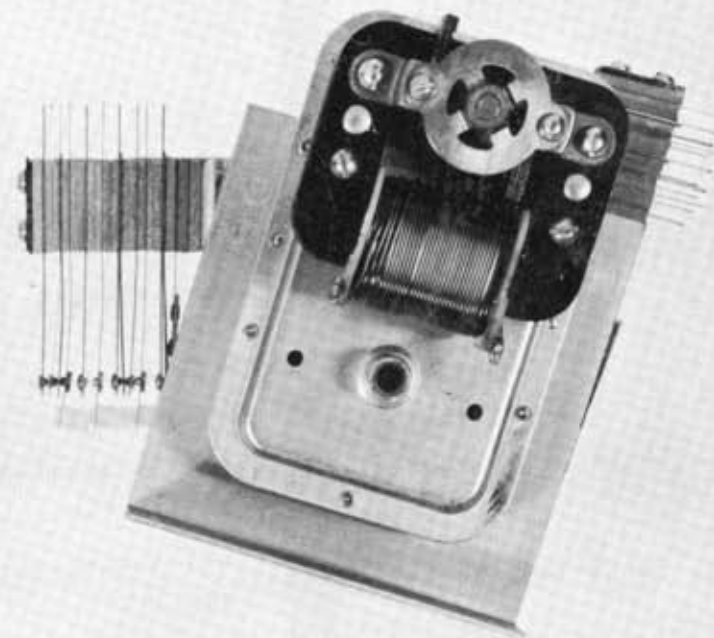
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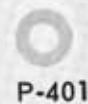
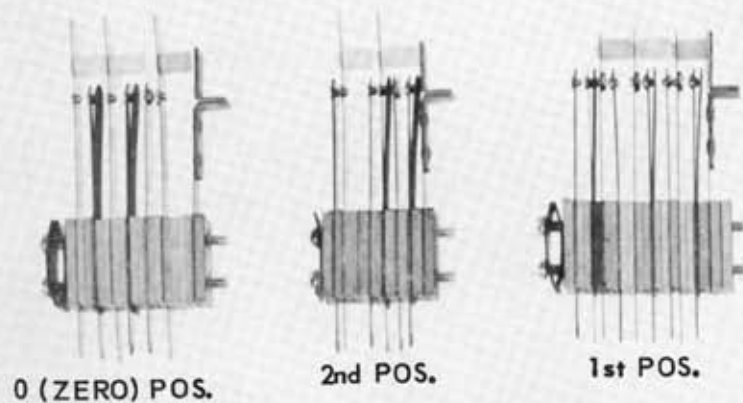
U-3-SHMU



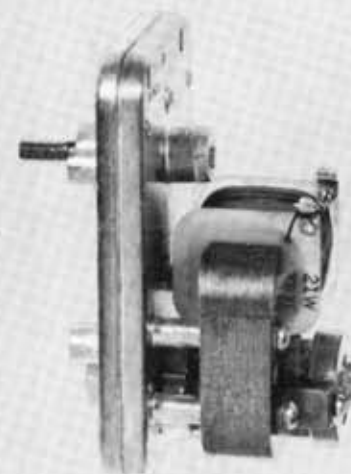
A-2333



A-2334



AST-2421



5102-MO

U-4-SMU

Scanning
Motor
Unit

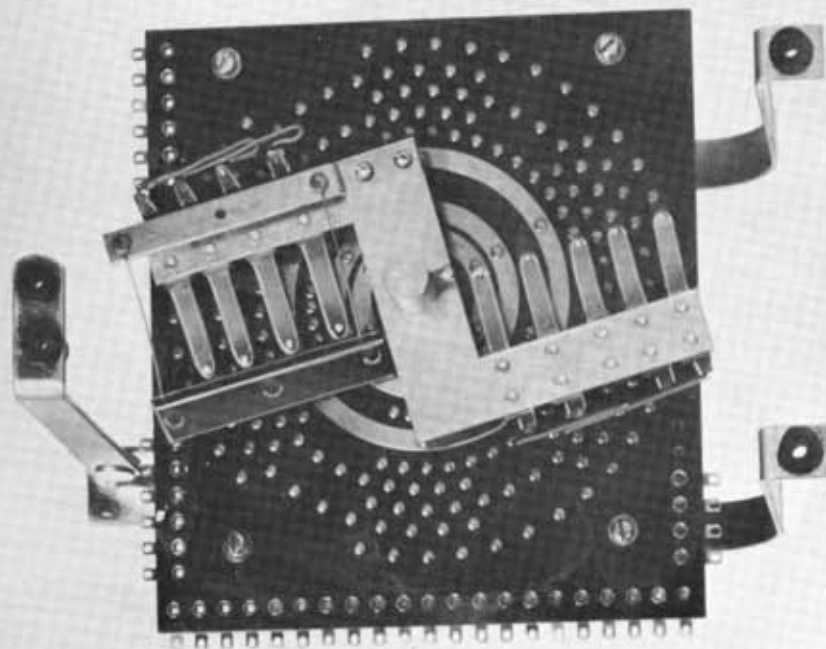
PART NUMBER DESCRIPTION

U-4-SMU	Scanning Motor Unit Complete
5101-MO	Motor ...See note below.....
AST-2321.....	Motor Unit Mounting Plate Assembly.....
ACW-1717-SM	Scanning Motor Commutator Wiper Assembly.....
AST-2325-SM	Scanning Motor Commutator Plate Assembly.....
AST-1734-1	Scanning Motor Cam Assembly (triple cam)
P-95	6-32 x 5/16 Binder head Machine Screw
P-89	8-32 x 5/16 Binder head Machine Screw
P-402	5/32 x 3/8 x 1/32 Steel Washer

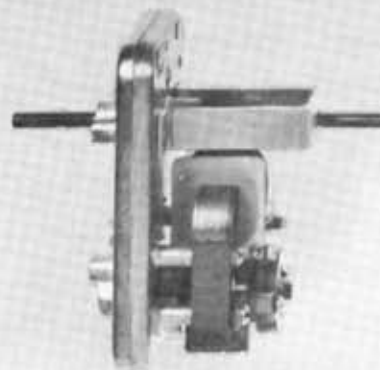
Motor shown in the complete assembly view is discontinued, and should be replaced by new design motor 5101-MO, as illustrated on opposite page, upper center.

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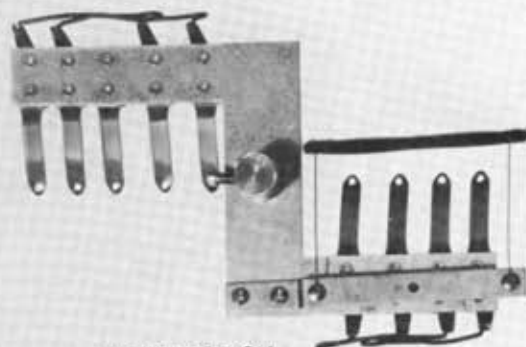
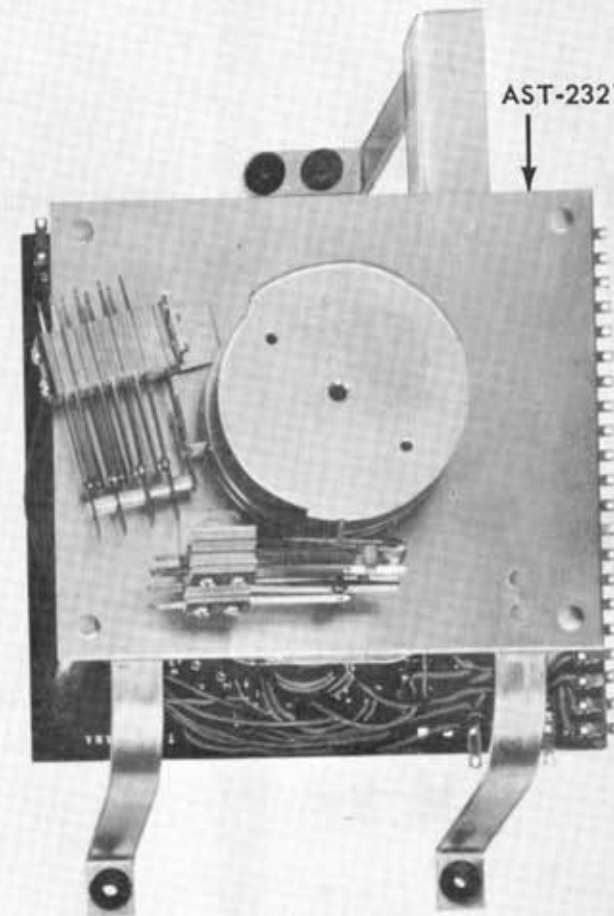
U-4-SMU



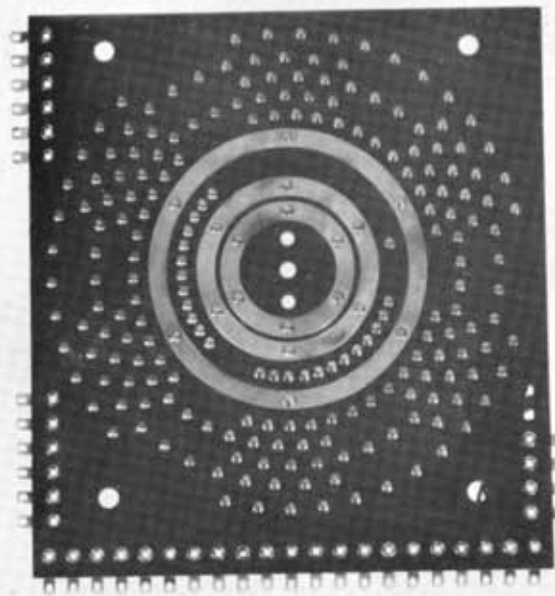
5101-MO



AST-2321



ACW-1717-SM



AST-2325-SM

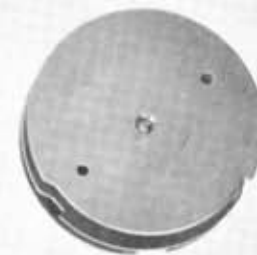
P-402



P-95



P-89



AST-1734-1

U-5-SMU

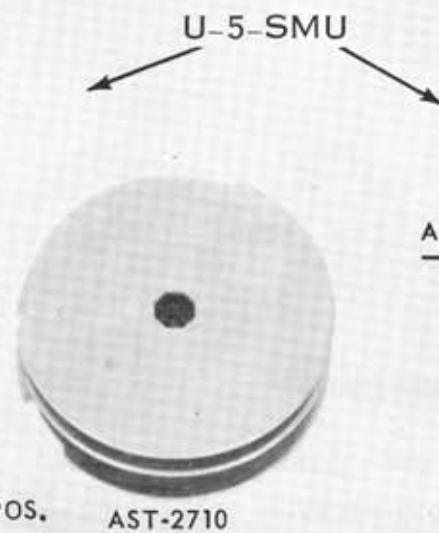
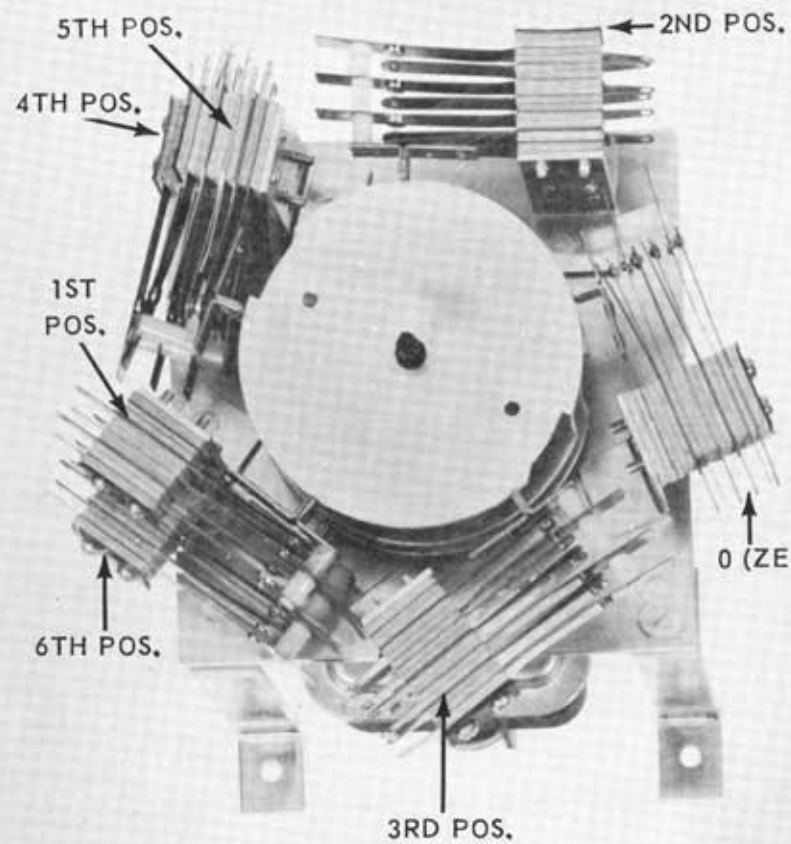
Sequence
Motor
Unit

PART NUMBER	DESCRIPTION
U-5-SMU	Sequence Motor Unit Complete.....
AST-2363	Sequence Motor Plate Assembly.....
5700-MO	Motor See note below.....
AST-2710	Sequence Motor Cam Assembly
SW-0-SMU	0 (Zero) Position Switch
SW-1-SMU	1st Position Switch
SW-2-SMU	2nd Position Switch
SW-3-SMU	3rd Position Switch
SW-4-SMU	4th Position Switch
SW-5-SMU	5th Position Switch
SW-6-SMU	6th Position Switch

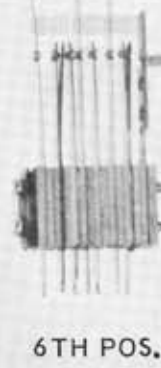
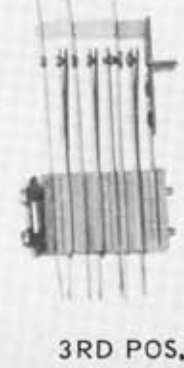
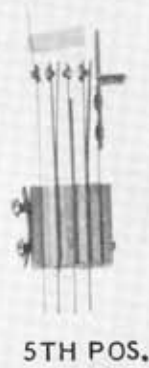
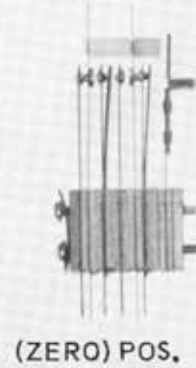
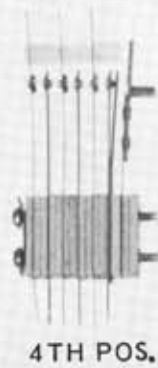
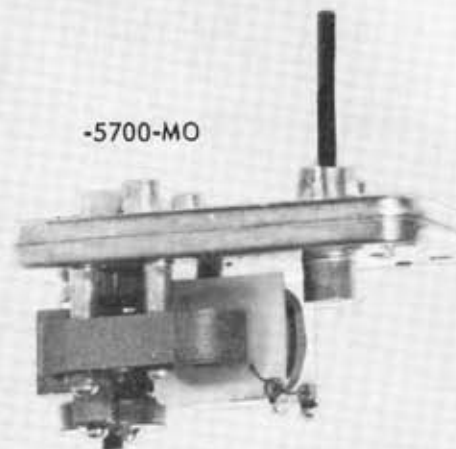
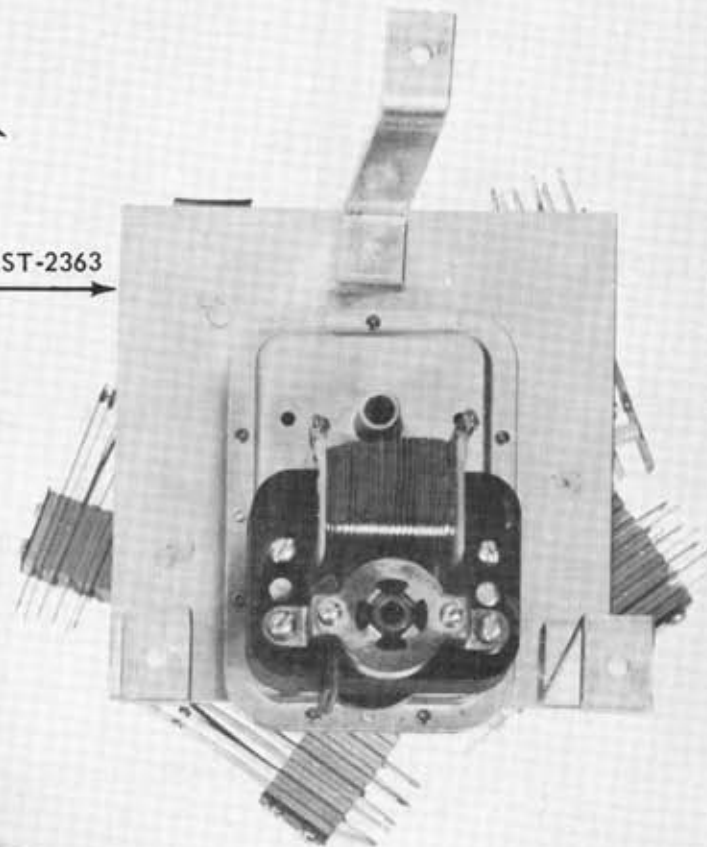
For various SWITCH BUILD-UPS for different games you must specify name & serial number of game, plus position, label marking and description.

Motor shown in the complete assembly view is discontinued, and should be replaced by new design motor 5700-MO, as illustrated on opposite page, center.

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AST-2363



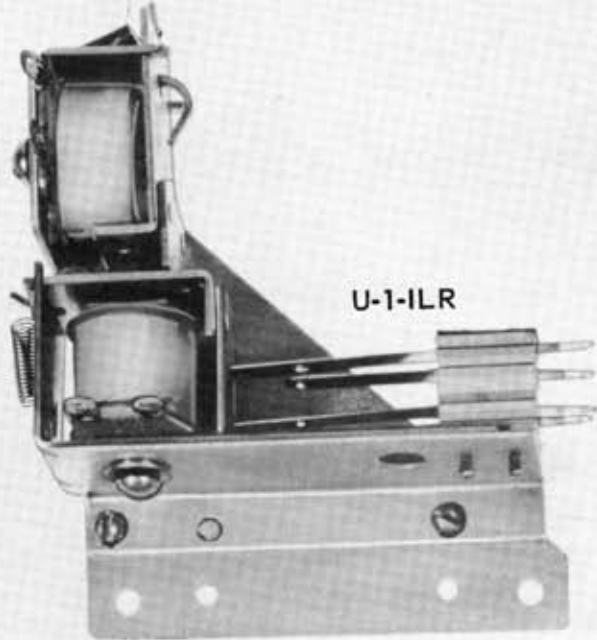
Relays

PART NUMBER	DESCRIPTION
U-1-ILR	Interlock Relay – Flat Mounting.....
U-2-ILR	Interlock Relay – Upright Mounting
U-3-ILR	Interlock Relay – Small.....
U-1-ACR.....	AC Relay.....
U-2-ACR.....	AC Relay – "M" Type
U-3-ACR.....	AC Relay – "S" Type
U-4-ACR.....	AC Relay – "S" Type

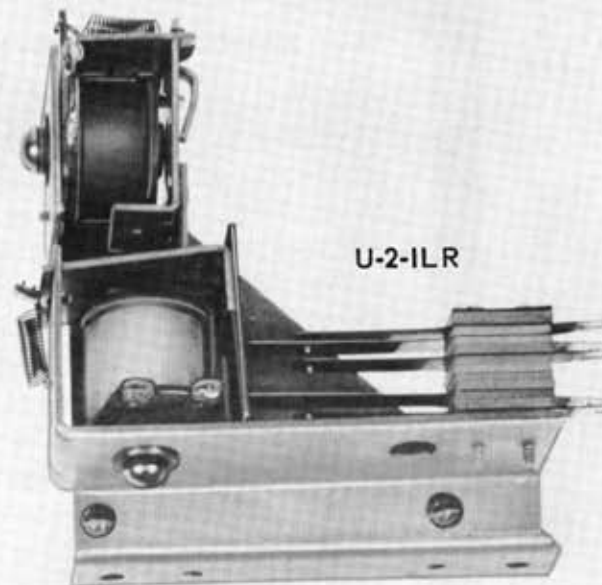
NOTE: The relays shown are only an illustration of different types available.

When ordering you must specify name and serial number of game, plus label marking or description.

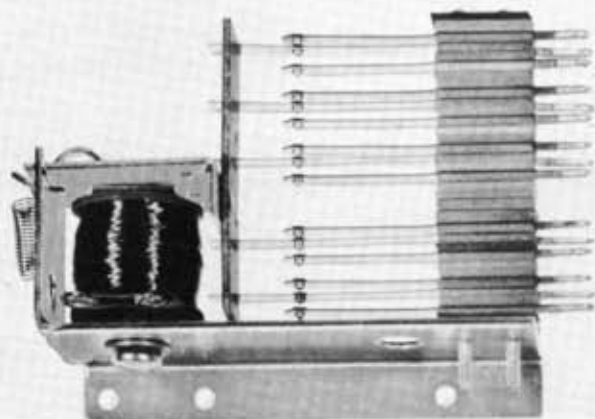
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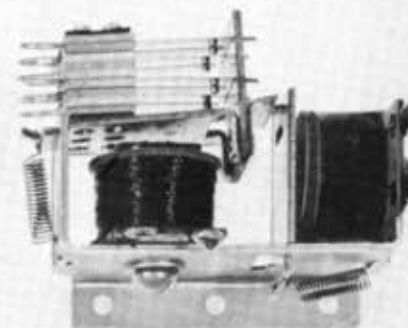
U-1-ILR



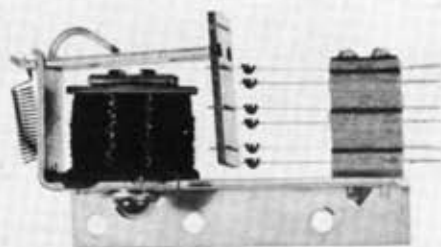
U-2-ILR



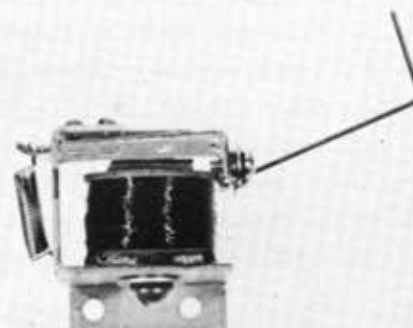
U-1-ACR



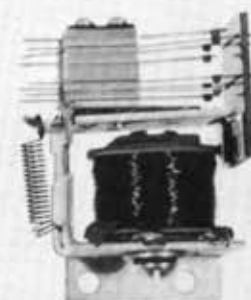
U-3-ILR



U-2-ACR



U-3-ACR



U-4-ACR

Relay
Parts

PART NUMBER

DESCRIPTION

ST-2550-2	AC Relay frame "S" type
ST-2550-1	AC Relay frame "S" type
ST-2550-3	AC Relay frame "S" type
ST-2550-1-D	DC Relay frame "S" type
ST-3007-1	AC Interlock relay frame
ST-3007-2	DC Interlock relay frame (not shown)
ST-2796-1	AC Relay frame "M" type
ST-2796-2	DC Relay frame "M" type
ST-27-AC	AC Relay frame
ST-2780	AC Lock-out relay frame
ST-3020	AC Relay frame
ST-3020-1	AC Relay frame
AST-2553-1-1SAL	AC Relay armature 1 slot switch actuator and latch assembly "S" type (not shown)
AST-2553-1-2SAL	AC Relay armature 2 slot switch actuator and latch assembly "S" type (not shown)
AST-2553-1-3SAL	AC Relay armature 3 slot switch actuator and latch assembly "S" type
AST-2553-1-1SA	AC Relay armature 1 slot switch actuator "S" type (not shown)
AST-2553-1-2SA	AC Relay armature 2 slot switch actuator "S" type (not shown)
AST-2553-1-3SA	AC Relay armature 3 slot switch actuator "S" type
AST-2797-3SA	AC Relay armature 3 slot switch actuator assembly "M" type (not shown)
AST-2797-4SA	AC Relay armature 4 slot switch actuator assembly "M" type
AST-1605-3-2SA	AC Latch release armature 2 slot switch actuator assembly
AST-1605-3-3SA	AC Latch release armature 3 slot switch actuator assembly (not shown)
AST-1605-3-4SA	AC Latch release armature 4 slot switch actuator assembly (not shown)
AST-1605-3-5SA	AC Latch release armature 5 slot switch actuator assembly (not shown)
AST-1605-1-2SA	AC Relay armature 2 slot switch actuator
AST-1605-1-3SA	AC Relay armature 3 slot switch actuator (not shown)
AST-1605-1-4SA	AC Relay armature 4 slot switch actuator (not shown)
AST-1605-1-5SA	AC Relay armature 5 slot switch actuator
AST-1605-1-L	AC Armature and latch assembly
AST-28-AC-L	AC Armature and latch assembly
ST-3008	AC Latch release armature
A-2584	Armature with stainless steel tip assembly
AST-2390-1	DC Lock-out armature assembly
511-A-394	Relay spring hook bracket
AST-2781-B	AC Lock-out armature assembly
ST-2390	AC Lock-out armature assembly

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ST-2550-2



ST-2550-1



ST-2550-3



ST-2550-1-D



ST-3007-1



ST-2796-1



ST-2796-2



ST-27-AC



ST-2780



ST-3020



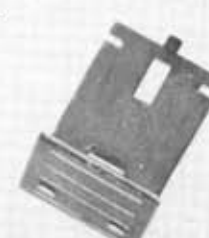
ST-3020-1



AST-2553-1-3SAL



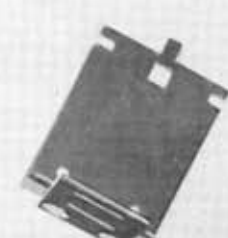
AST-2553-1-3SA



AST-2797-4SA



AST-1605-3-2SA



AST-1605-1-2SA



AST-1605-1-5SA



AST-1605-1-L



AST-28-AC-L



ST-3008



A-2584



AST-2390-1



511-A-394



AST-2781-B



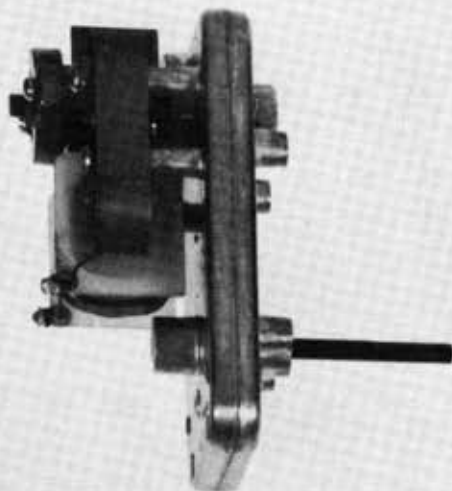
ST-2390

"5000"
Series
Motors

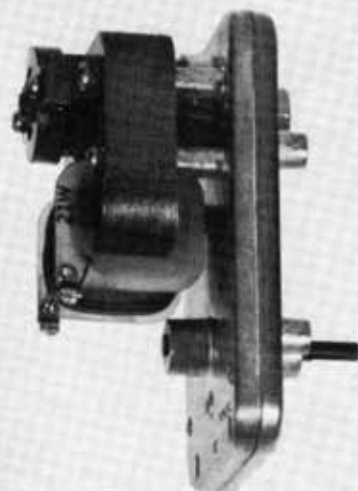
PART NUMBER	DESCRIPTION
5700-MO	24 - 26 R.P.M. - 30 Volts
5102-MO	24 - 26 R.P.M. - 30 Volts
5104-MO	42 - 44 R.P.M. - 30 Volts
5106-MO	20 - 22 R.P.M. - 30 Volts
5107-MO	24 - 26 R.P.M. - 30 Volts
5108-MO	24 - 26 R.P.M. - 30 Volts
5111-MO	24 - 26 R.P.M. - 50 Volts
5118-MO	12 - 13-1/2 R.P.M. - 50 Volts

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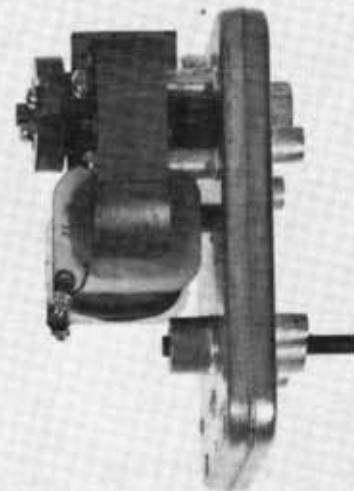
"5000" SERIES MOTORS



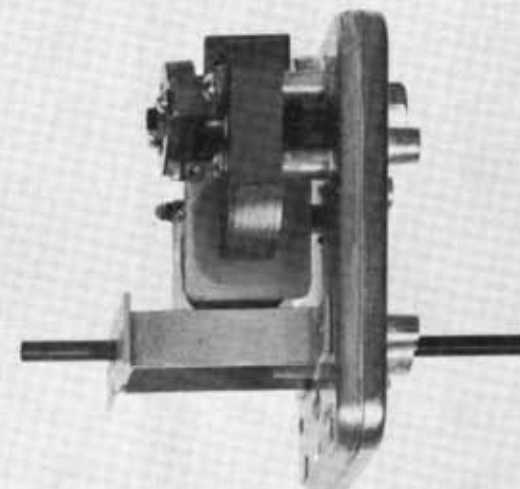
5700-MO



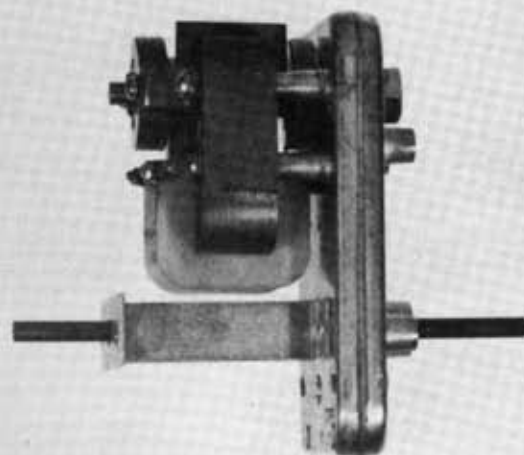
5102-MO



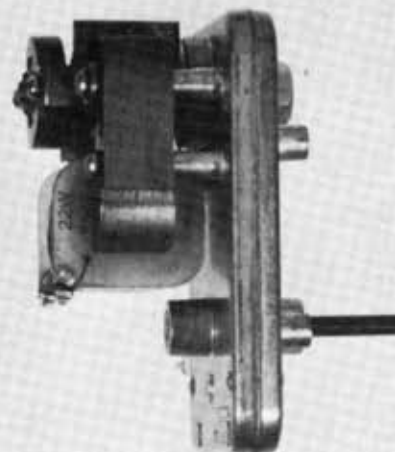
5104-MO



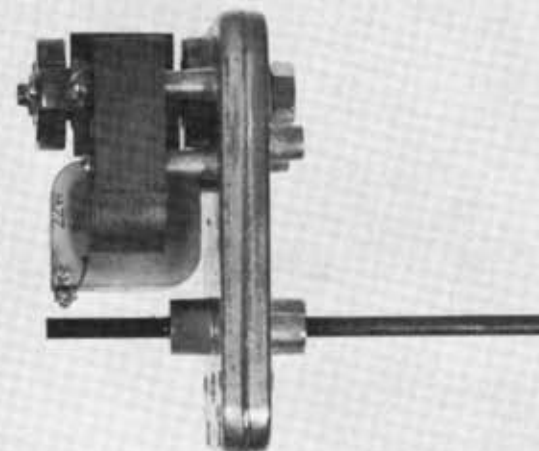
5106-MO



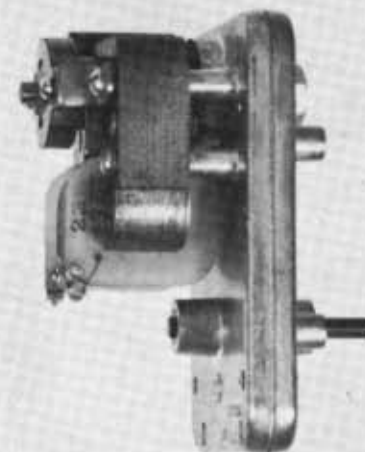
5107-MO



5108-MO



5118-MO



5111-MO

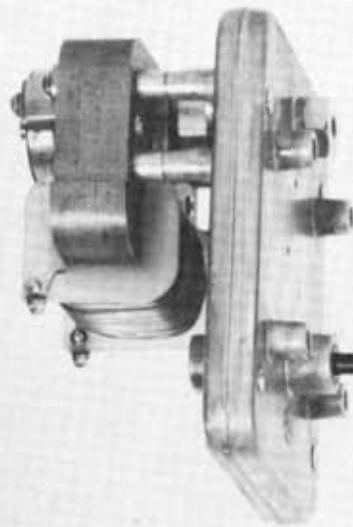
"5000"
Series
Motors

PART NUMBER**DESCRIPTION**

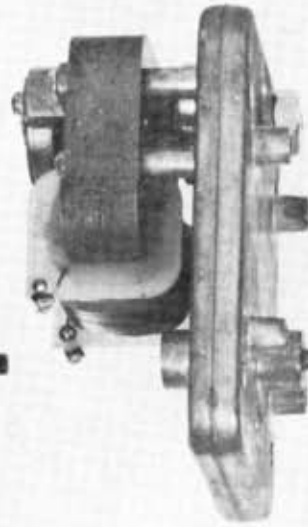
5100-MO.....	24 - 26 R.P.M. - 30 Volts
5109-MO.....	9 - 11 R.P.M. - 30 Volts
5114-MO.....	42 - 44 R.P.M. - 50 Volts
5121-MO.....	18 - 20 R.P.M. - 50 Volts
5122-MO.....	24 - 26 R.P.M. - 50 Volts
5123-MO.....	24 - 26 R.P.M. - 110 Volts
5124-MO.....	24 - 26 R.P.M. - 50 Volts
5125-MO.....	9 - 11 R.P.M. - 50 Volts

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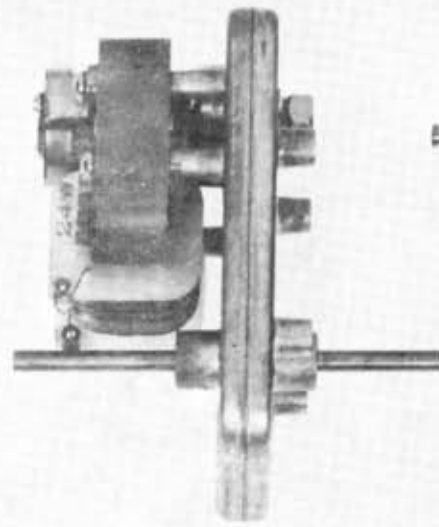
"5000" SERIES MOTORS



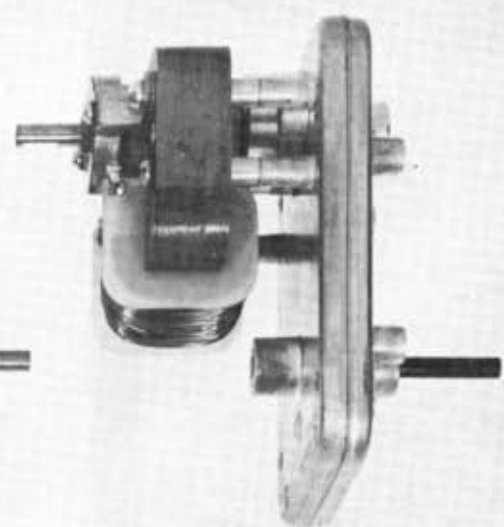
5122-MO



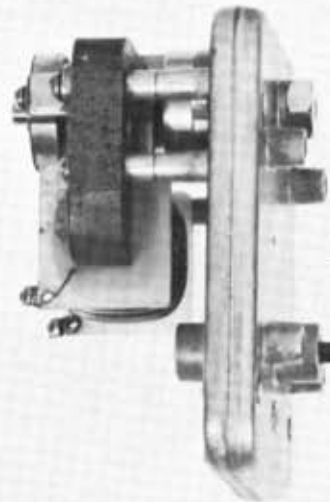
5109-MO



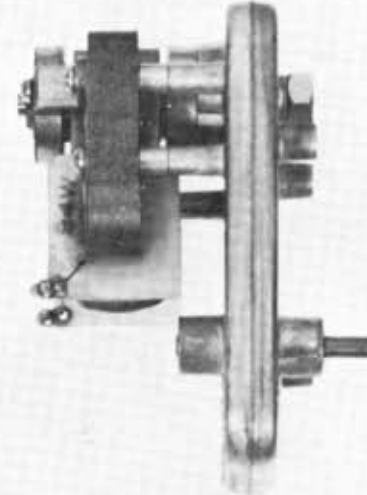
5121-MO



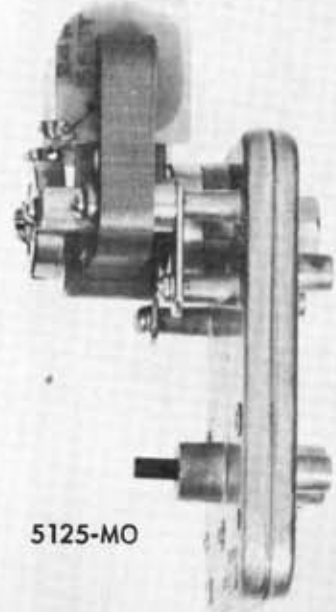
5123-MO



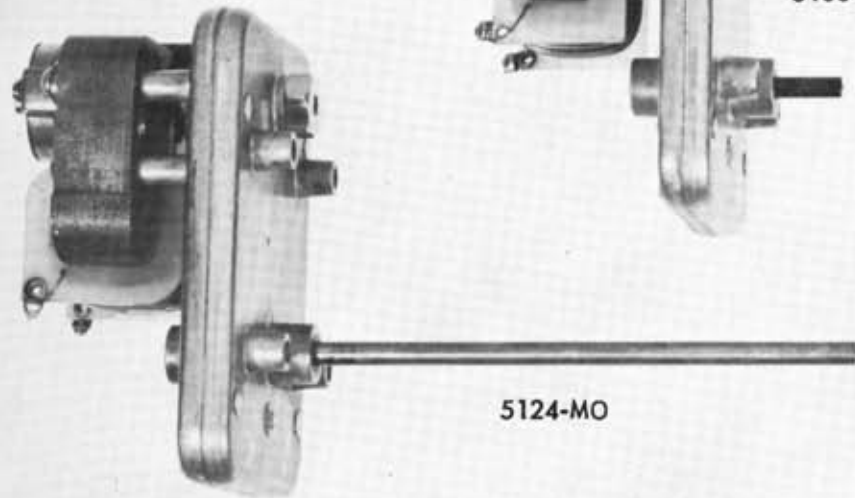
5100-MO



5114-MO



5125-MO



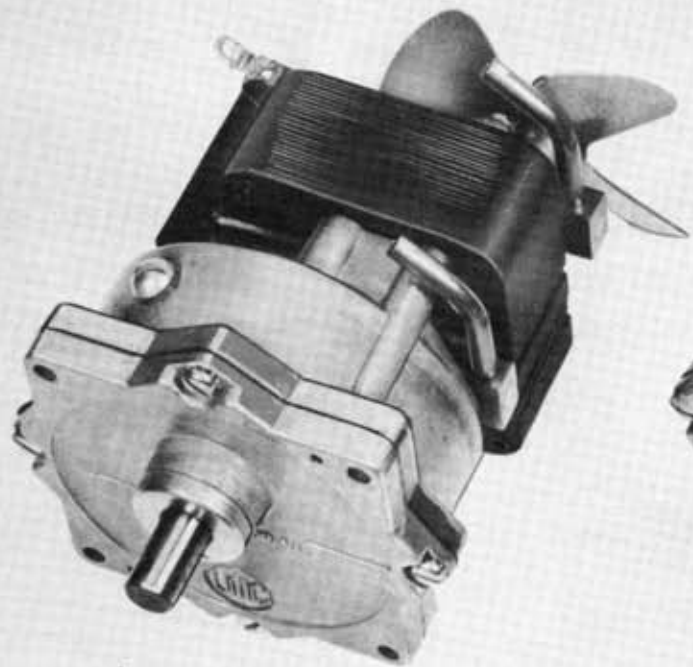
5124-MO

Heavy
Duty
Gear
Motors**PART NUMBER****DESCRIPTION**

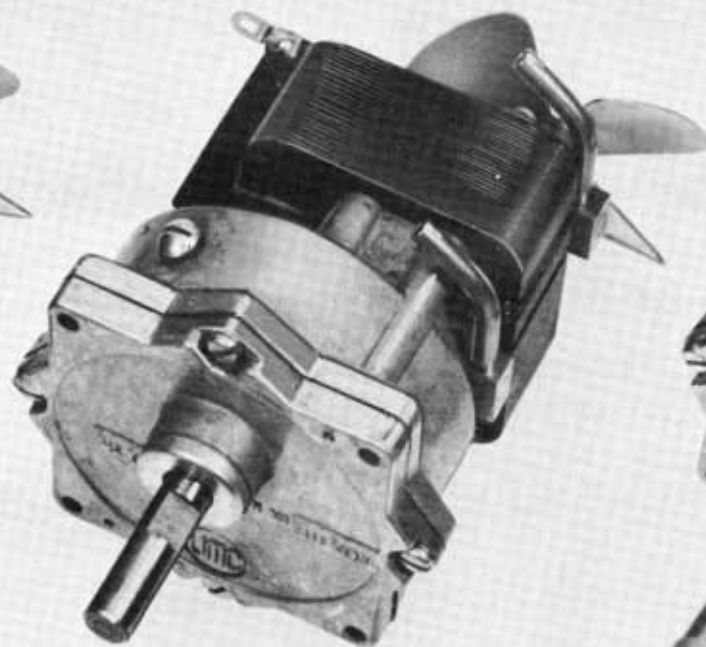
B-1119-R	19 R.P.M. - 110 Volts
B-1170-L	70 R.P.M. - 110 Volts
C-1150-L	50 R.P.M. - 110 Volts
B-1150-L	50 R.P.M. - 110 Volts.....(Not shown)
B-1178-L	78 R.P.M. - 110 Volts.....(Not shown)

TO AVOID
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OF GAME

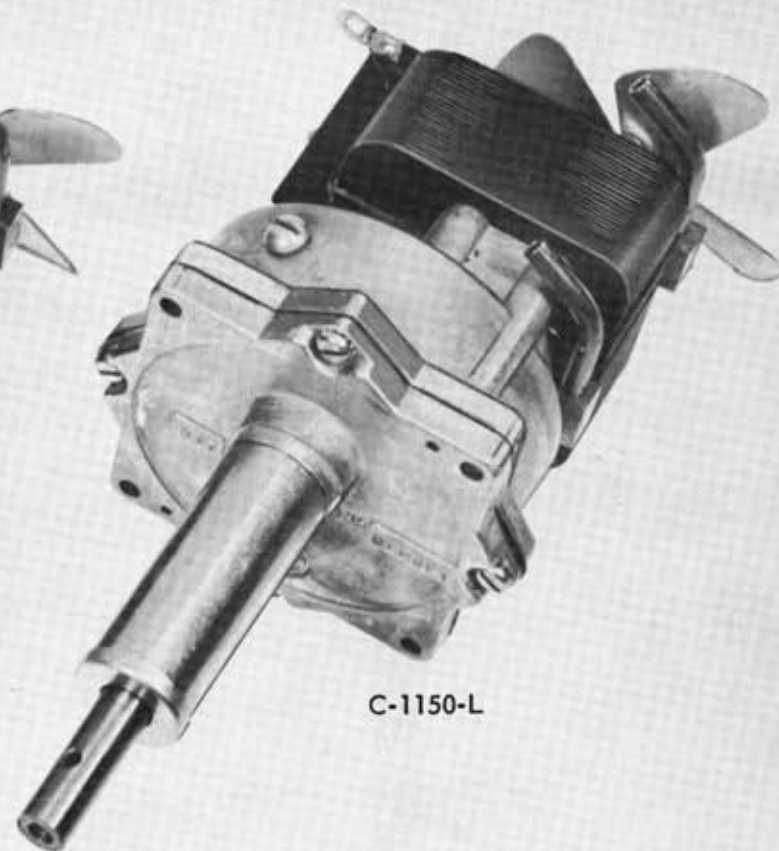
HEAVY DUTY GEAR MOTORS



B-1119-R



B-1170-L



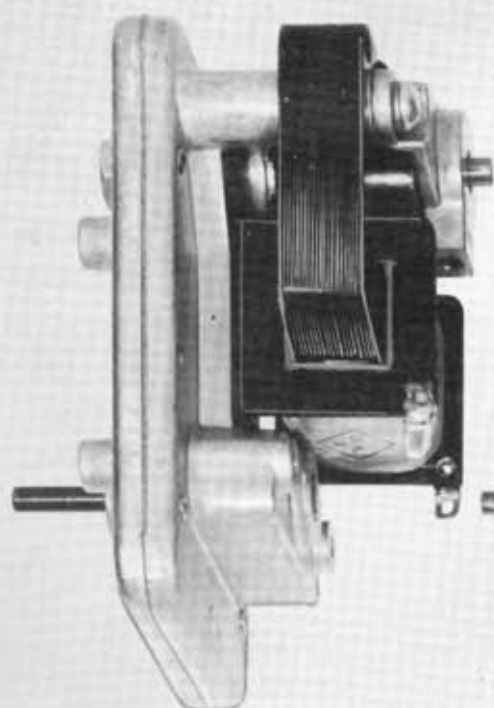
C-1150-L

"6000" Series Motors

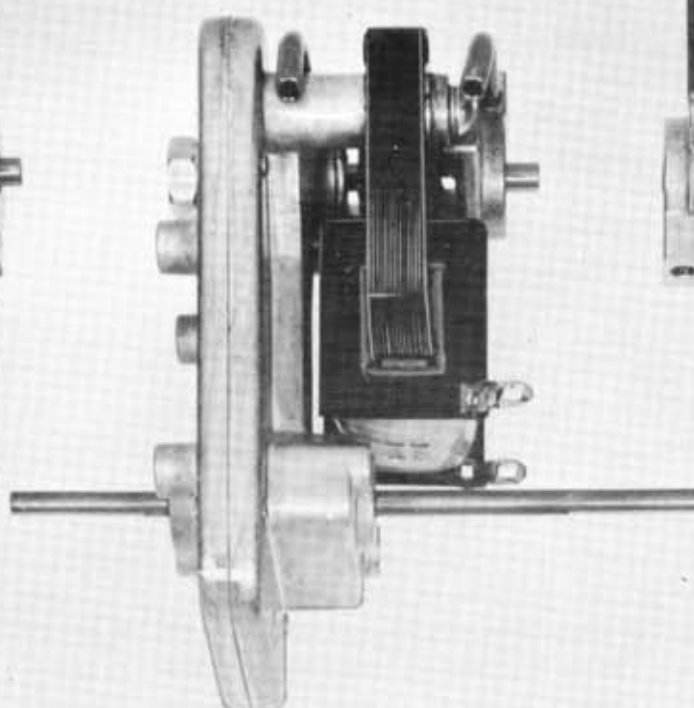
PART NUMBER	DESCRIPTION
6000-MO	42 - 44 R. P. M. - 50 Volts
6002-MO	24 - 26 R. P. M. - 50 Volts
6001-MO	42 - 44 R. P. M. - 50 Volts
6120-MO	24 - 26 R. P. M. - 50 Volts

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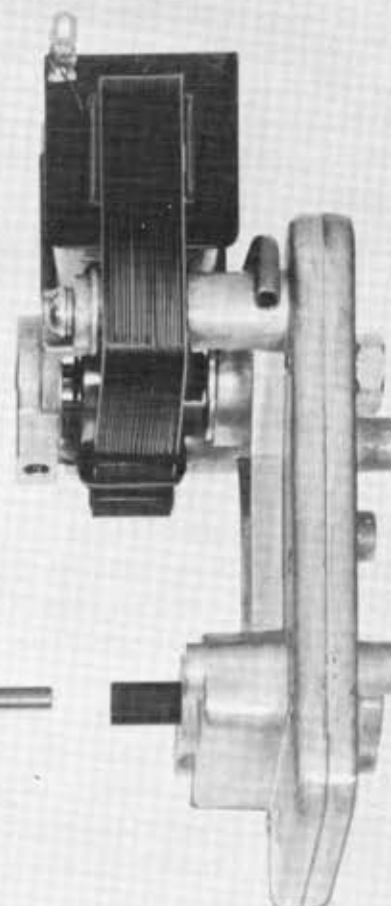
"6000" SERIES MOTORS



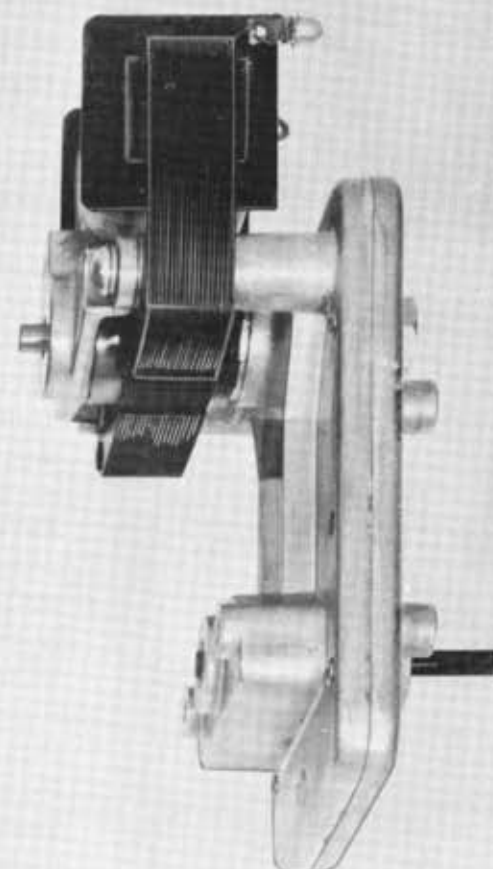
6001-MO



6120-MO



6002-MO



6000-MO

U-1-DSU

U-2-DSU

Drum

Step-Up

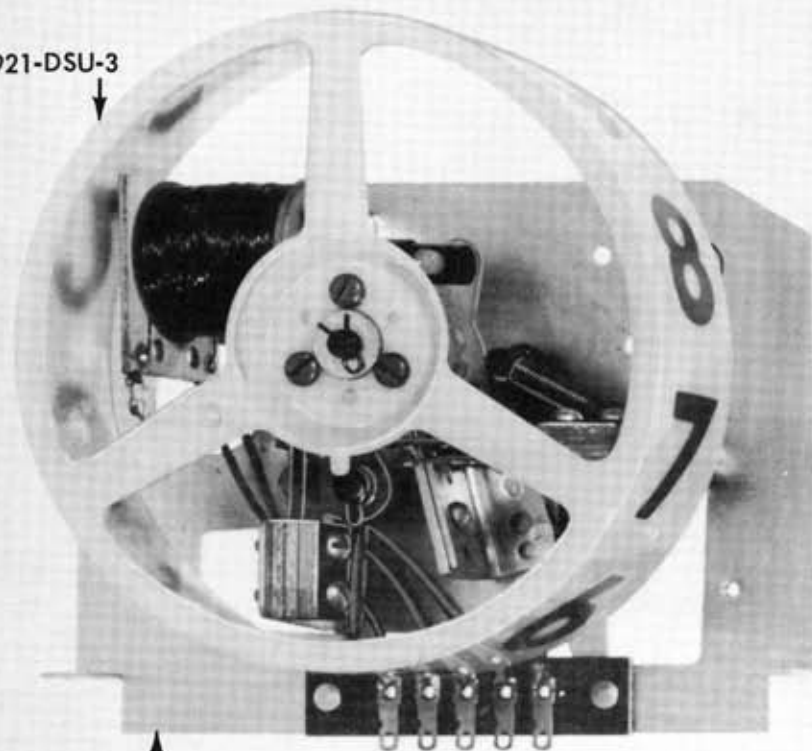
Units &

Parts

PART NUMBER	DESCRIPTION
U-1-DSU	Drum Step Up Unit Complete
U-2-DSU	Drum Step Up Unit with Commutator Plate Complete.....
1937-DSU	9th Position Switch.....
1941-DSU	Zero Position Switch.....
1939-DSU-N	Drum Hub (Nylon).....
1939-DSU	Drum Hub Assembly (Used when unit is grounded)
AST-1953-DSU	Wiper Finger & Contact Assembly.....
ST-2814	Switch Insulator (Fishpaper)
A-2810	Solenoid Stop Assembly
1945-DSU-N	Drive Arm (Nylon)
1935-DSU	Drive Spring
1936-DSU	Latch Pawl Spring.....
1943-DSU	Drive Pawl Assembly
1948-DSU	Latch Pawl Assembly.....
SM-1938-DSU	Drive Armature
#3 Series	Solenoid Coil.....
AST-1923-DSU	Drum Unit Base Plate Assembly.....
AST-1923-DSU-1	Drum Unit Base Plate Assembly (For unit with commutator).....
ST-1954-DSU	Commutator Plate.....
S-1958-DSU	Ground Wire
P-1921-DSU-1	Drum Wheel 1 to 10 Blue Numbers on Yellow Paper (Not Shown)
P-1921-DSU-2	Drum Wheel 100 to 2400 White Numbers on Red Paper (See Bonus Drum Unit, Not Shown)
P-1921-DSU-3	Drum Wheel 1 to 10 Black Numbers on Yellow Plastic
P-1921-DSU-4	Drum Wheel 1 to 10 White Numbers on Red Plastic (Not Shown)
P-1921-DSU-5	Drum Wheel 1 to 6 White Numbers on Red Plastic (Not Shown)
P-1921-DSU-6	Drum Wheel 1 to 10 White Numbers on Red Plastic (Not Shown)
P-1921-DSU-7	Drum Wheel 1 to 10 Black Numbers on White Plastic (Not Shown).....

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OF GAME

P-1921-DSU-3

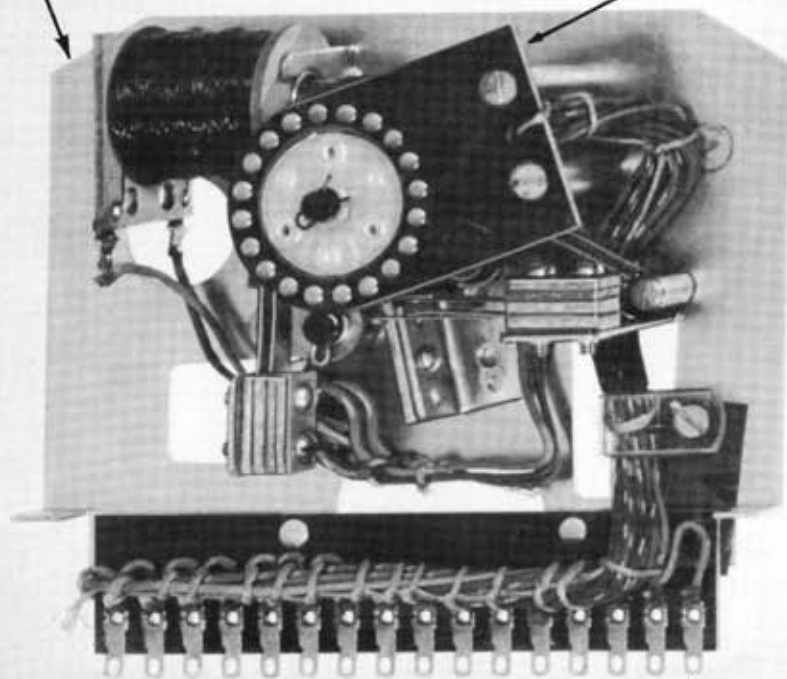


AST-1923-DSU

U-1-DSU

AST-1923-DSU-1

ST-1954-DSU



U-2-DSU

DRUMS REMOVED FOR BETTER VIEW



AST-1953-DSU



1939-DSU



1939-DSU-N



S-1958-DSU



SM-1938-DSU



1941-DSU



1937-DSU



1945-DSU-N



1943-DSU



1948-DSU



1936-DSU



A-2810

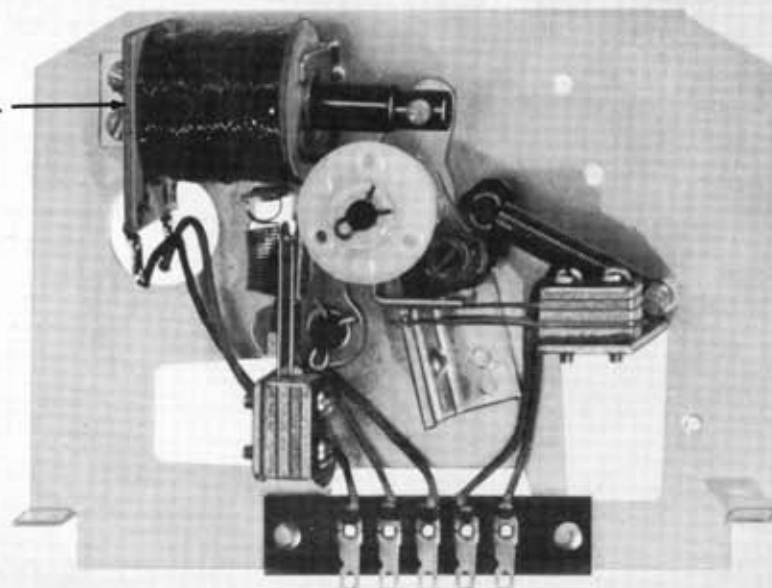


1935-DSU



ST-2814

#3 SERIES COIL



U-1-DSU

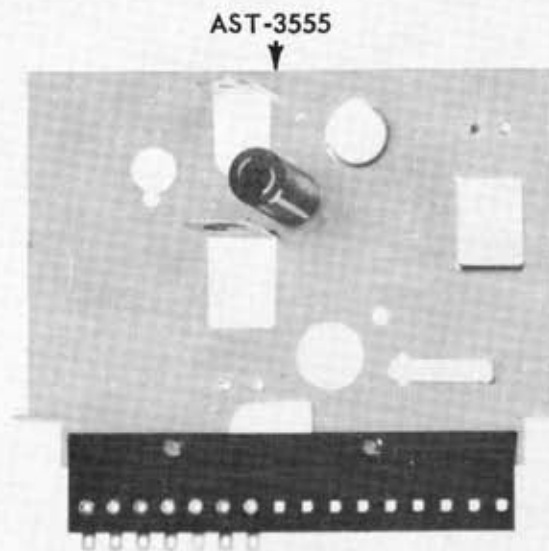
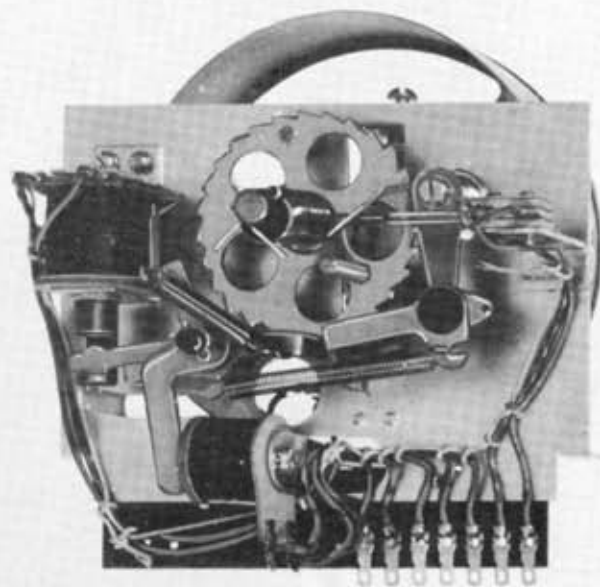
U-1-BDSU

Bonus
Drum
Step Up
Unit

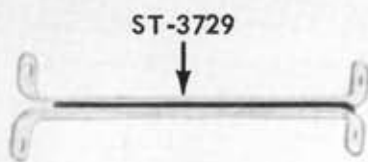
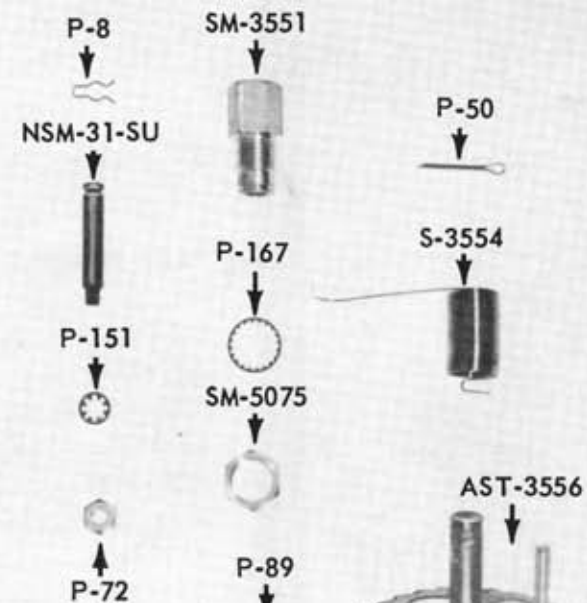
PART NUMBER	DESCRIPTION
U-1-BDSU	Bonus Drum Step Up Unit Complete
AST-3555	Base Plate Assembly
ST-3729	Drum Unit Mounting Bracket
P-1921-2	Drum Wheel
AST-3558	Reset Pawl
SW-Z	Bonus Step Up Zero Switch
ST-3548	Drive Arm, Solenoid Side
P-1	10/32 x 3/4 Brass Round Head Mach. Screw W/Nut & Lock Washer
AST-3547	Drive Arm & Pawl Assembly
NSM-13-ASU	Reset Armature
SM-3557	Drive Armature
NSM-31-SU	Reset Pawl Post
P-8	3/16 Hair Pin Clip
P-151	#10 Internal Lock Washer
P-72	10/32 Nut
NST-17-ASU	Escapement Pawl
#A-2 Series	Solenoid Coil
#3 Series	Solenoid Coil
#5 Series	Coil
A-2810	Solenoid Stop Assembly
SM-3551	Drive Arm Shaft Bushing
P-167	1/2" Internal Lock Washer
SM-5075	1/2" - 20 Jam Nut
P-89	8/32 x 5/16 Binder Head Mach. Screw
P-402	5/32 x 3/8 x 1/32 Thick Washer
SM-3549	Drive Arm Shaft
P-10	6/32 x 3/16 Round Head Mach. Screw
P-50	1/16 x 1" Cotter Pin
S-3554	Torsion Spring
AST-3556	27 T. Ratchet Assembly
ST-3553	Drum Drive Washer - Tapped
P-2	1/4 - 28 Nut & Lock Washer
S-3-SP	Escapement Pawl Spring
S-3-SU	Drive Arm Spring

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U-1-BDSU



AST-3555



ST-3729



AST-3558

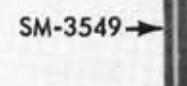


AST-3547

NST-17-ASU



P-130



P-402



ST-3553



P-1921-2



SW-Z

ST-3548



P-1



NSM-13-ASU

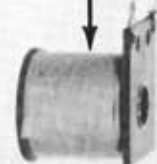


SM-3557

A-2 SERIES COIL



#3 SERIES COIL

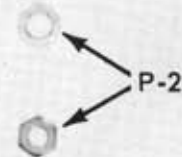


A-2810

P-89



S-3-SP



P-2

#5 SERIES COIL



S-3-SU

U-1-BDSU

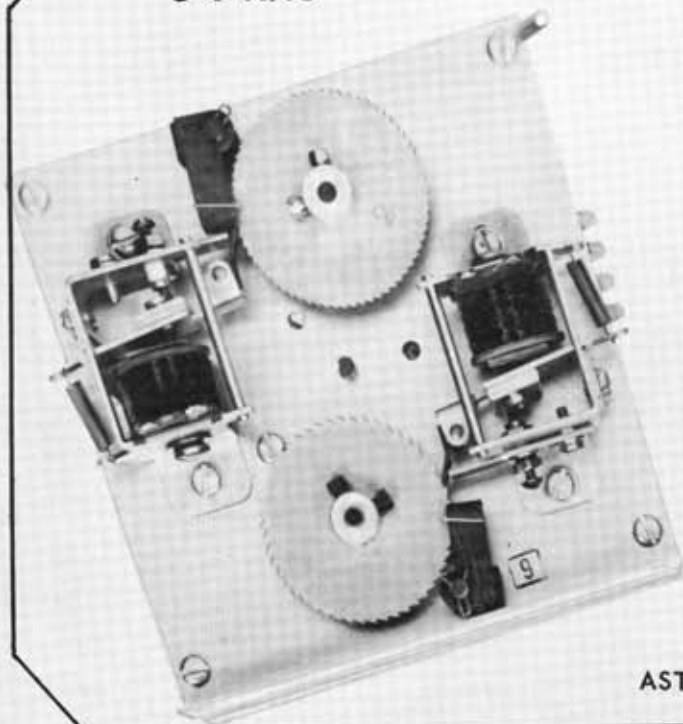
U-1-RXU

Reflex
Unit

PART NUMBER	DESCRIPTION
U-1-RXU	Reflex Unit Complete
AST-3087-1	Main Plate
AST-3087-2	Main Plate
ST-3100	Reflex Unit Cover
ACP-3070	Commutator Plate Assembly
ACW-2450	Commutator Wiper Assembly
AST-3105	67 T. Ratchet Assembly
AST-3106	70 T. Ratchet Assembly
AST-3104	50 T. Ratchet Assembly
AST-3107	72 T. Ratchet Assembly
ST-3098	Ratchet Dog
S-3176	Ratchet Dog Spring
DC-3062	Bevel & Pinion Gear Differential
DC-3061	Pinion Gear-Differential
DC-3060	Bevel Gear-Differential
SM-3091	Main Shaft - Differential
SM-3092	Bevel Idler Gear Shaft
ASM-3096	Ratchet & Gear Shaft (Short)
ASM-3097	Ratchet & Gear Shaft (Long)
AST-3129-1	Drive Unit Frame Assembly only
AST-3129-1C	Drive Unit Assembly Complete
AST-3130	Inertia Armature Plate Assembly
ST-3136	Armature Travel Control Plate
ST-3131	Lock Plate
#4 Series	Coil
S-3329	Armature Return Spring
ST-3129-3	Fish Paper Insulator
SM-3223	Short Shoulder Adaptor

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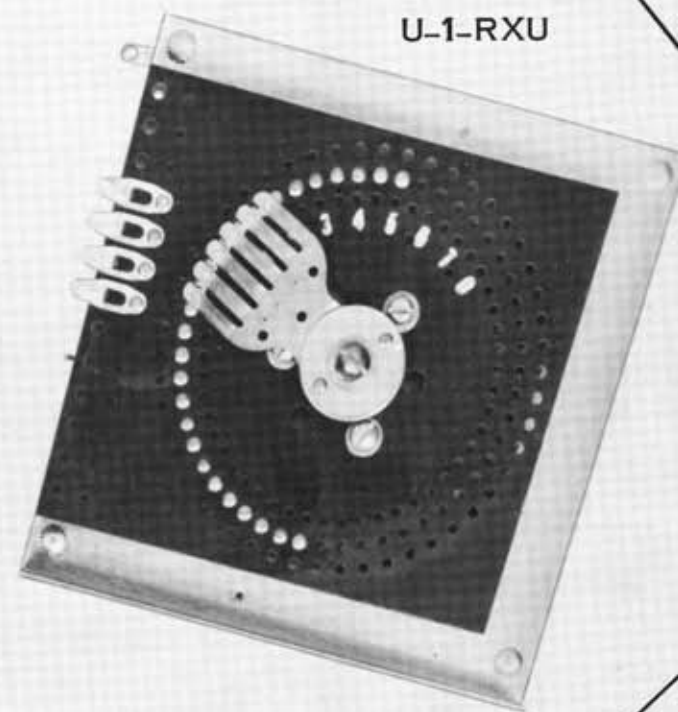
U-1-RXU



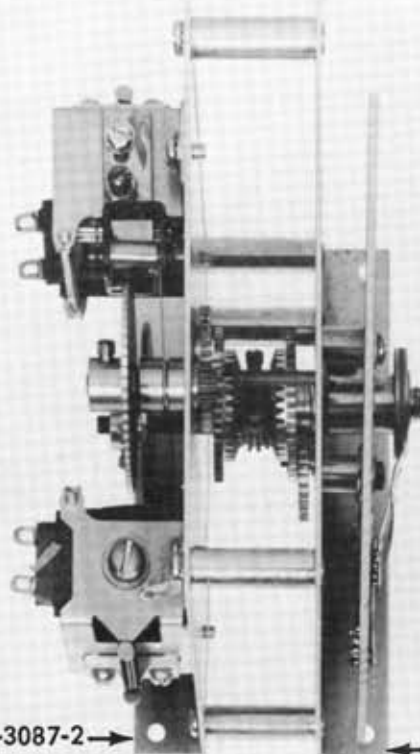
ST-3100



U-1-RXU



AST-3087-2 → ← AST-3087-1



AST-3105



AST-3106



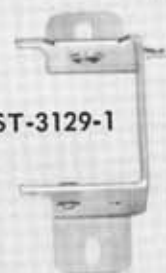
DC-3062



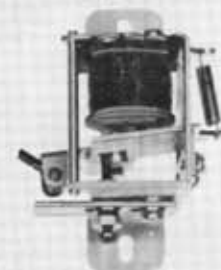
DC-3061



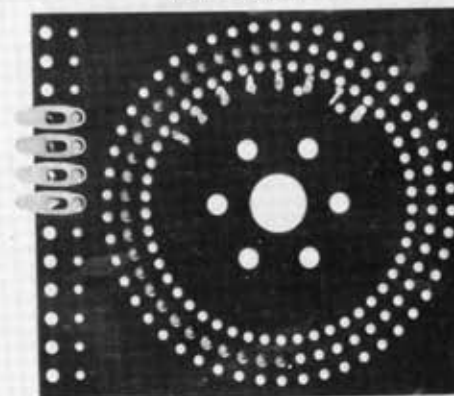
AST-3129-1



AST-3129-1C



ACP-3070



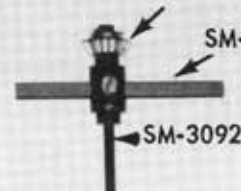
AST-3104



AST-3107



DC-3060



SM-3091

SM-3092

AST-3130



ST-3136



ST-3131



#4 SERIES COIL



S-3329



ST-3098



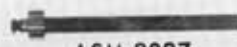
S-3176



ASM-3096



ASM-3097



ST-3129-3



ACW-2450

SM-3223



U-1-MSQU

Magic
Squares
Unit

PART NUMBER

DESCRIPTION

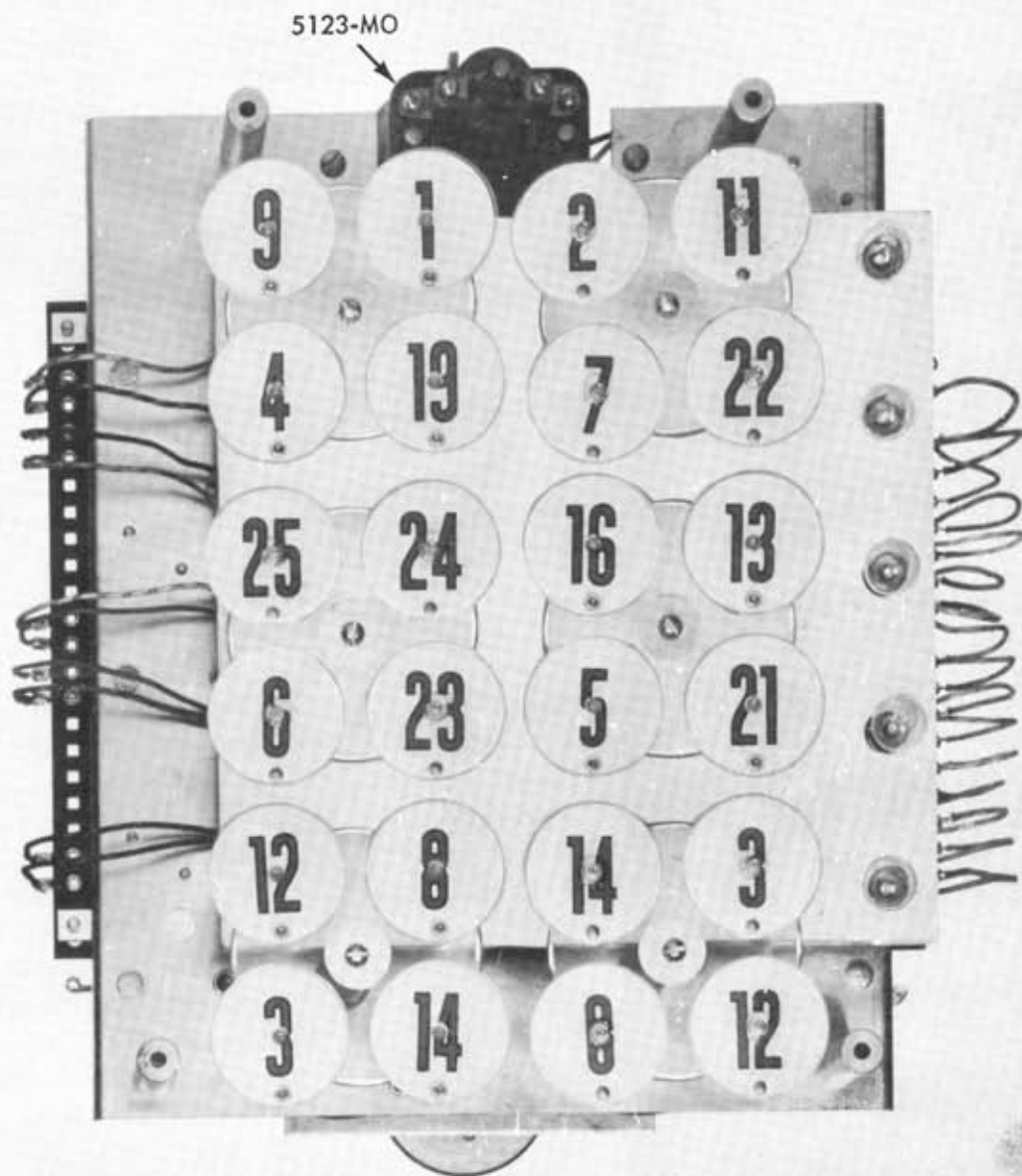
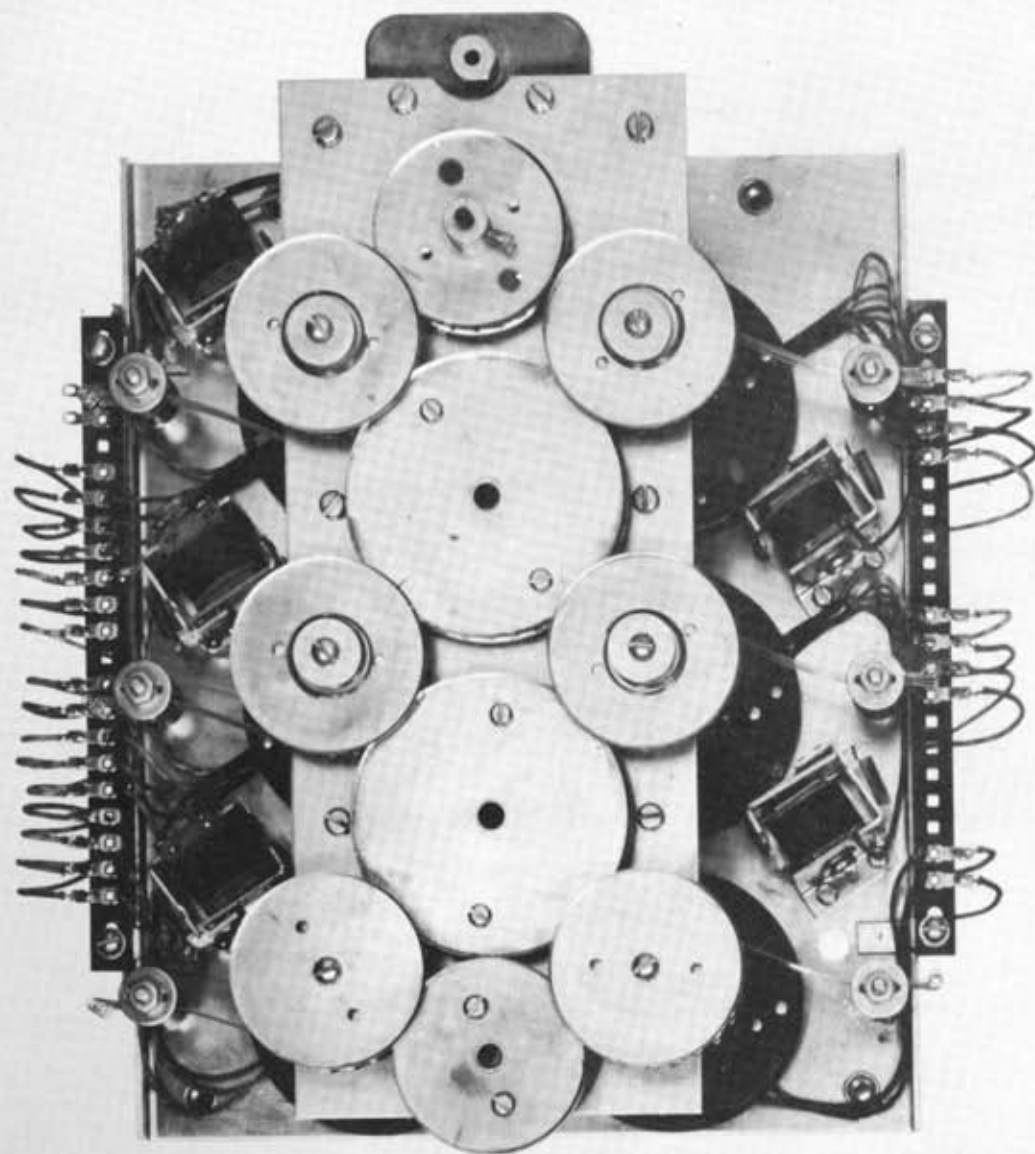
U-1-MSQU.....

Magic Square Unit Complete.....

See following pages for part numbers and description

TO AVOID
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U-1-MSQU



U-1-MSQU

Magic
Squares
Unit &
Parts

PART NUMBER	DESCRIPTION
U-1-MSQU	Magic Squares Unit Complete..... See Section 9a
AST-4348-5	Position Cam Assembly (5 Blade)
ST-3164	Wiper Finger with Contact
AST-4348-4	Position Cam Assembly (4 Blade)
AST-4349-E2	Commutator Disc Assembly
AST-4349-A	Commutator Disc Assembly
AMSQ-IRE-C	Magic Square Index Relay Assembly Complete
P-3058	Commutator Feed Wiper Spring
AST-4443-2	Clutch Drive Washer Assembly
ST-4443-1	Clutch Drive Washer
AST-4345	Large Idler Gear Assembly
AST-4344-3	Small Idler Gear Assembly
ST-4447-2	Shaft Gear
ST-4447-1	Shaft Gear
ST-4344-2	Clutch Gear
ST-4347	Guide Plate Idler Gear (Large)
AST-4344-4	Guide Plate and Gear Assembly
ST-4346-3	Guide Plate
AST-4346-1	Guide Plate Assembly
ASM-4371	Gear Shaft
SM-4372	Gear Shaft Spacer
ST-4444	Leather Clutch Washer
S-4422	Clutch Comp. Spring
P-5133-37	Tru Arc Retainer
P-3055	Commutator Spring Spacer
P-410	3/16 x 3/4 x 1/32 Washer
P-411	3/8 x 1/2 x .022 Washer
AP-4352-A	"A" Number Disc Assembly
AP-4352-B	"B" Number Disc Assembly
AP-4352-C	"C" Number Disc Assembly
AP-4352-D	"D" Number Disc Assembly
AP-4352-EL	"E" Left Number Disc Assembly
AP-4352-ER	"E" Right Number Disc Assembly
5123-MO	Motor (See photo of complete unit on preceding page)

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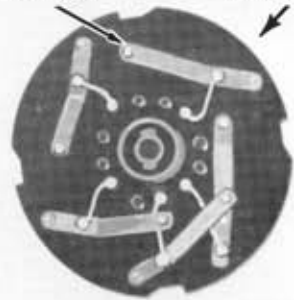
ST-3164

AST-4348-5

AST-4348-4

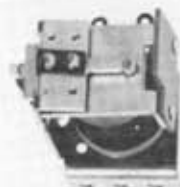
AST-4349-E2

AST-4349-A

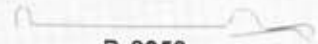


AP-4352-A

AP-4352-B



AMSQ-IRE-C



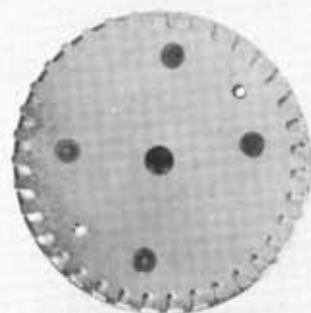
P-3058



AST-4443-2



ST-4443-1



AST-4345



AST-4344-3



ST-4447-2



ST-4447-1



ST-4344-2

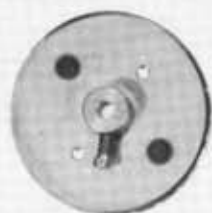


AP-4352-C

AP-4352-D



ST-4347



AST-4344-4



ST-4346-3



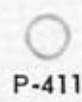
AST-4346-1



P-3055



P-410



P-411



P-5133-37



AP-4352-EL

AP-4352-ER



ASM-4371



SM-4372



ST-4444



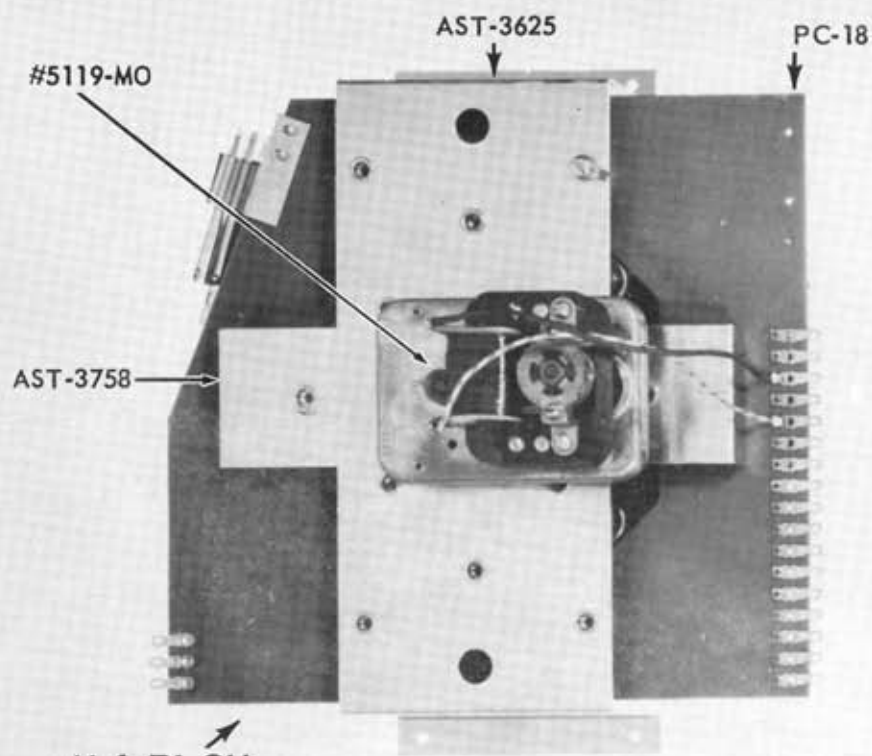
S-4422

U-1-RLCU

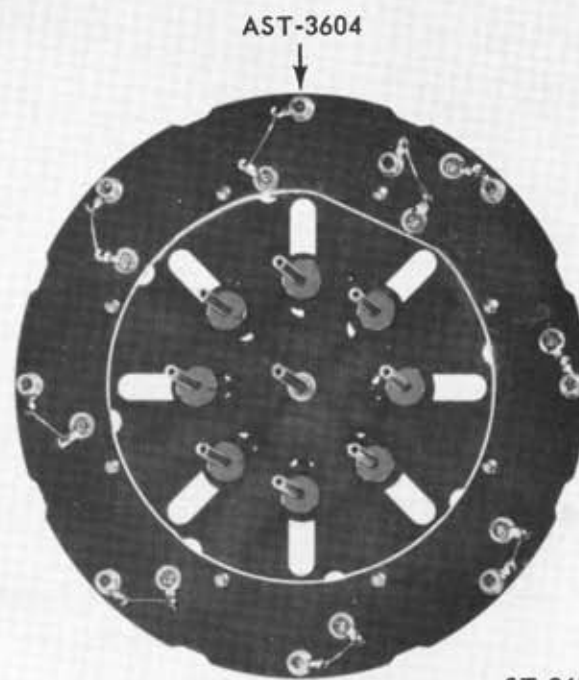
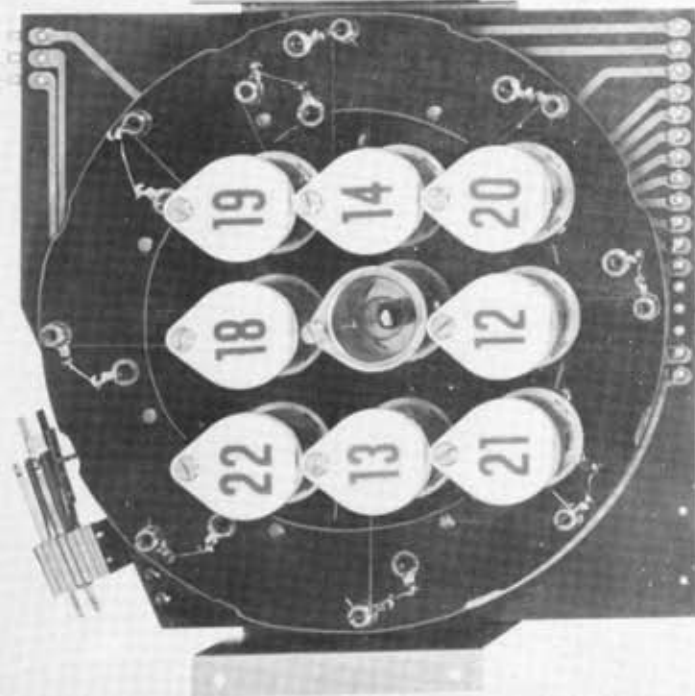
Roto
Light
Carrier
Unit

PART NUMBER	DESCRIPTION
U-1-RLCU.....	Roto Light Carrier Unit Complete.....
AST-3625.....	Motor Mounting Frame Assembly.....
AST-3758.....	Commutator Support Bracket.....
PC-18.....	Printed Circuit Commutator Plate (ST-3602).....
5119-MO.....	Motor.....
AST-3604-C.....	Commutator & Carrier Disc Assembly Complete.....
AST-3604.....	Commutator Disc Assembly Only.....
AST-3606.....	Carrier Disc Assembly Only.....
P-203.....	H-1 Hartford Ball Bearing.....
ST-3605.....	Cam.....
S-3651.....	Retracting Spring.....
S-3217.....	Shoe Wiper Spring.....
SM-3627.....	Shoulder Screw.....
SM-3626.....	Brush Ring Insulator.....
ST-3676.....	Switch Bracket.....
SW-RC.....	Roto Cam Switch.....
ST-3642.....	Wiper, Shoe Type 13/16" Long.....
ST-3642-1.....	Wiper, Shoe Type 1" Long.....
SM-3632.....	Attaching Brush, Contact Wire.....
S-3640-1.....	Contact Wire, Center Lite.....
S-3639-1.....	Contact Wire, Lite Carrier.....
ST-3611.....	Spring Attachment Washer.....
ASM-3600.....	Lite Socket Assembly.....
P-3610.....	Number Holder.....

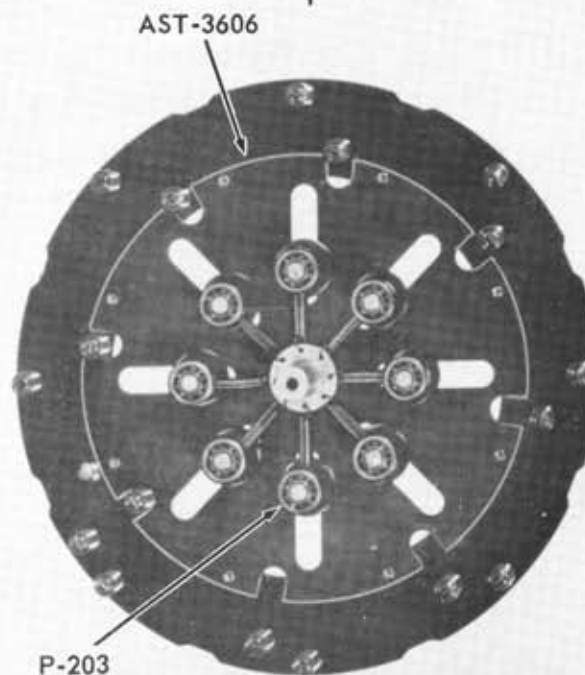
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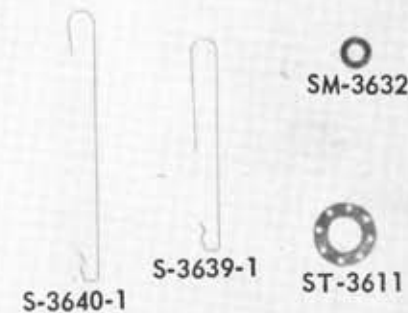
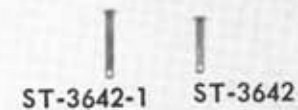
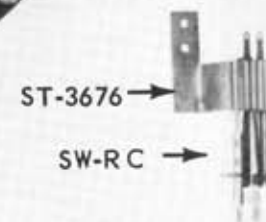
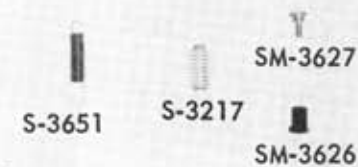
U-1-RLCU



AST-3604-C



ST-3605



U-1-RSA

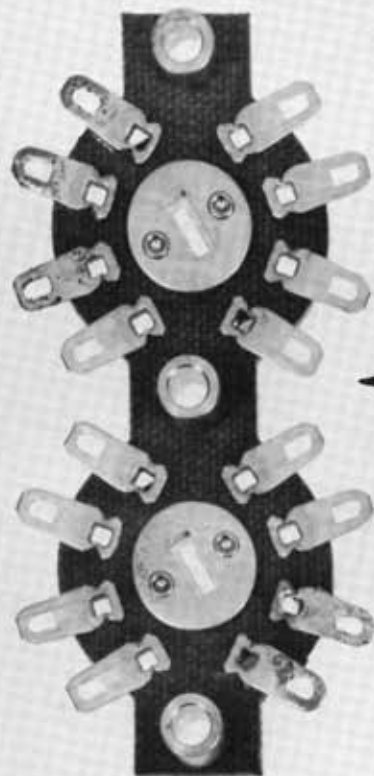
Rotary
Switch
Assemblies

PART NUMBER	DESCRIPTION
A-3356	2 Position Rotary Switch Assembly
A-3357	Duplex Rotary Switch Assembly
A-3368	Tandem Rotary Switch Assembly
A-3375	Tandem Rotary Switch Assembly

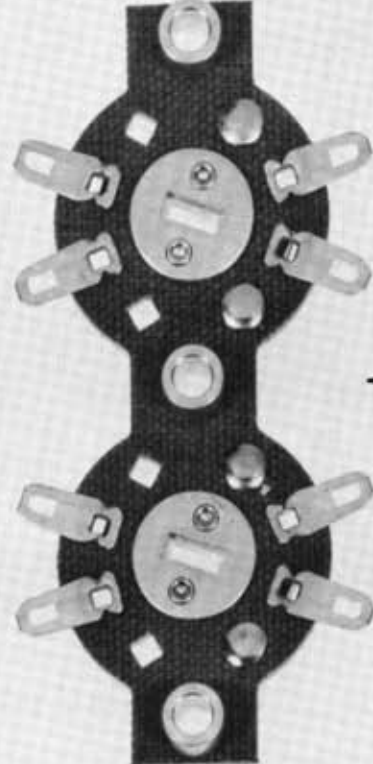
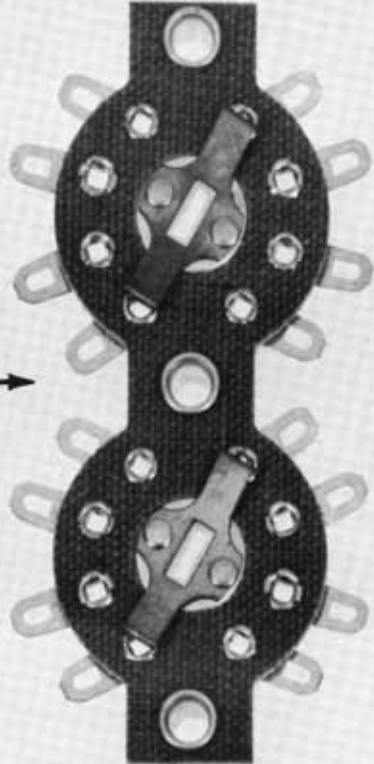
NOTE: The Rotary Switches shown above are only an illustration of many different types available and are variously called Tap Switches, Control or Adjustment Jacks, depending on particular application.

When ordering you must specify name and serial number of game, plus label marking and description for proper build-up.

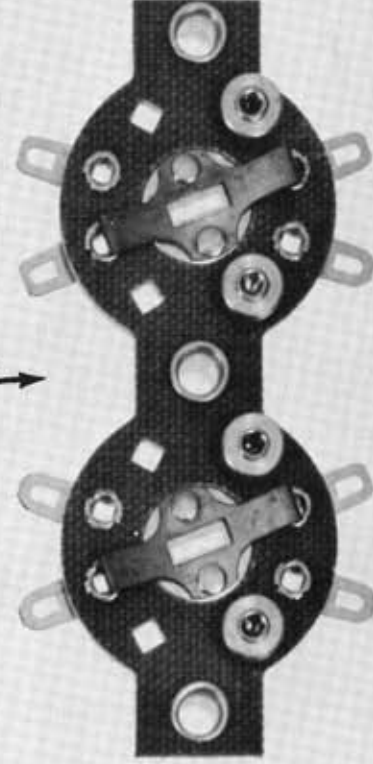
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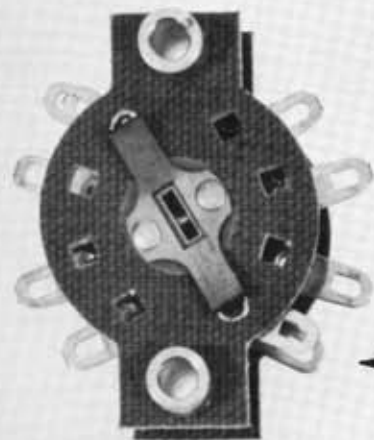
← A-3356 →



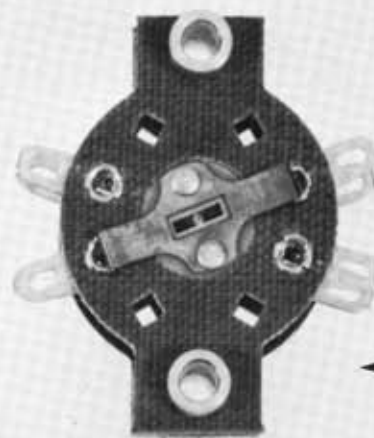
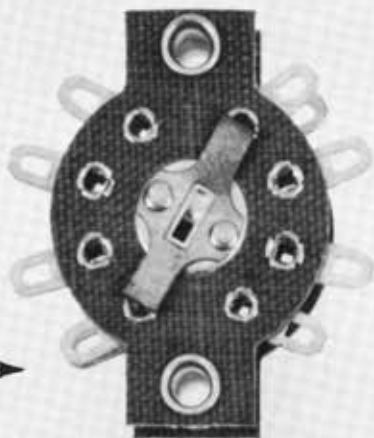
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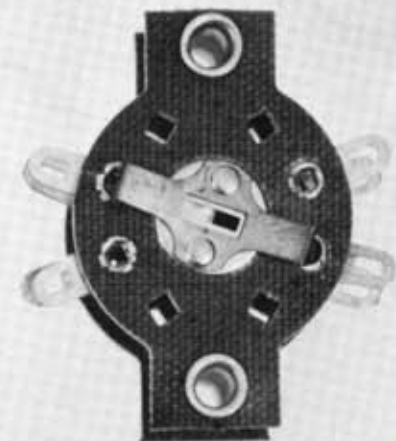
U-1-RSA



← A-3375 →



← A-3368 →



Bowling
Game
Replacement
Parts

PART NUMBER	DESCRIPTION
P-3550-1	Giant Pins 10 3/8" Overall Height Hard (Polystyrene)
P-3550-2	Giant Pins 10 3/8" Overall Height Flexible (Polyethelene)
P-3550-3	Giant Pins 10-3/8" Overall Height Flexible Numberless (Polyethelene) (Not Shown)
P-4890	Small Pins 6 1/4" Overall Height #4 to 10 included
P-4890-1	Small Pins 6 1/4" Overall Height #1 to 3 have P-4883 attachment
P-2500	Jumbo Pins 8 1/2" Overall Height (not shown)
ST-4731	Pin Attachment Bracket (For Small Pins)
ST-5123	Pin Attachment Bracket for Giant Numberless Pin (Not Shown)
ST-4733	Reset Guide (used on Midget #5 Pin only)
SM-2680-1	Pivot Pin for Large Pin to Hanger Assembly
SM-2680-3	Pivot Pin for Hanger to Frame (all assemblies)
SM-2680-4	Pivot Pin for Small Pin to Hanger Assembly
S-3657	Trip Spring
S-4807-3	Pivot Spring Midget Alley No. 1 Pin
S-4807-1	Pivot Spring Midget Alley No. 2 to 10 Pin
S-4551-1	Pivot Spring (all large assemblies)
P-52	1/16 Hair Pin Clip

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P-4890-1



P-4890



ST-4733



ST-4731



S-4807-3



S-3657



SM-2680-3



P-52



S-4807-1



S-4551-1



SM-2680-1



SM-2680-4

P-3550-1 or -2

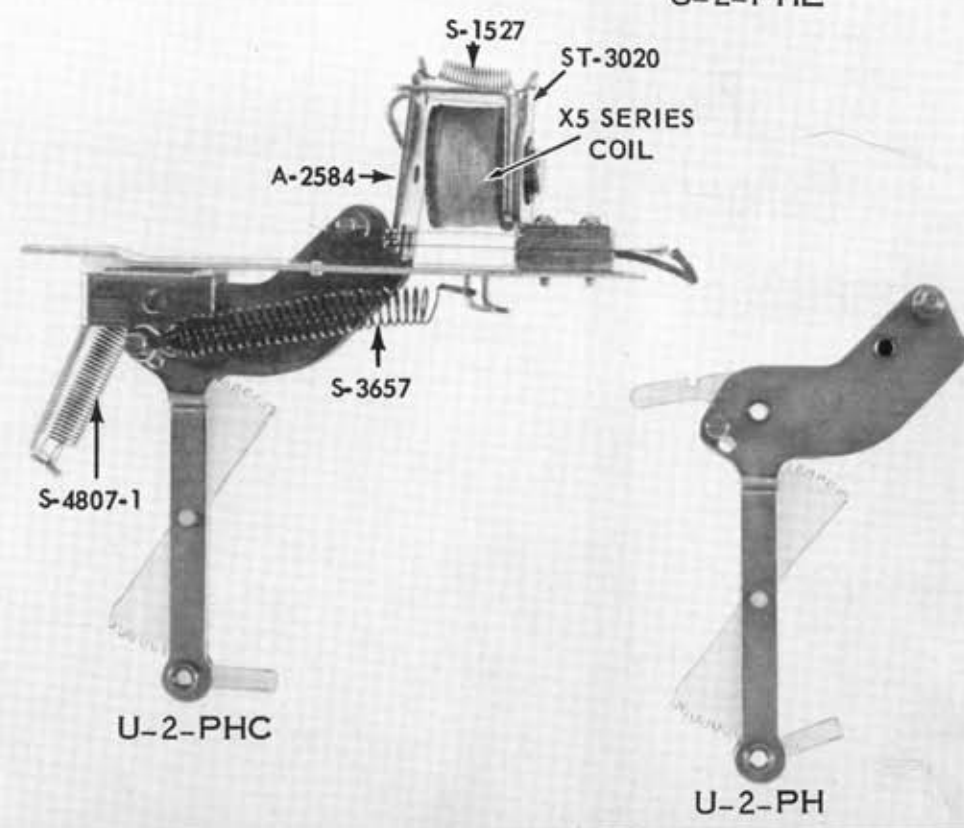
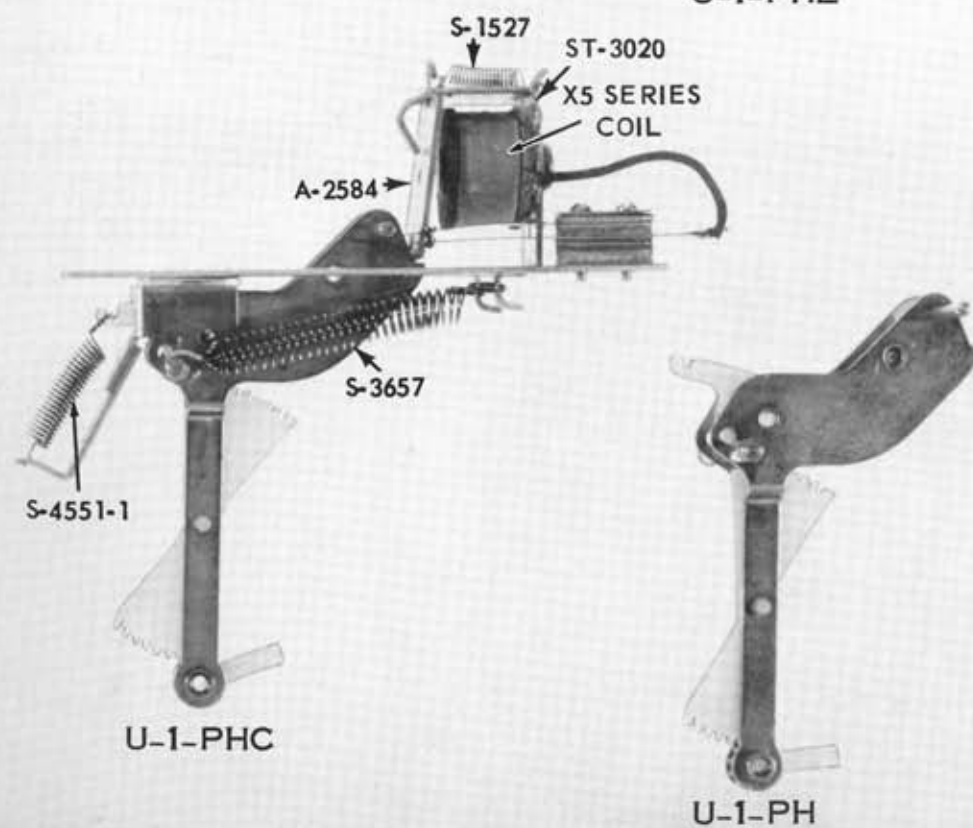
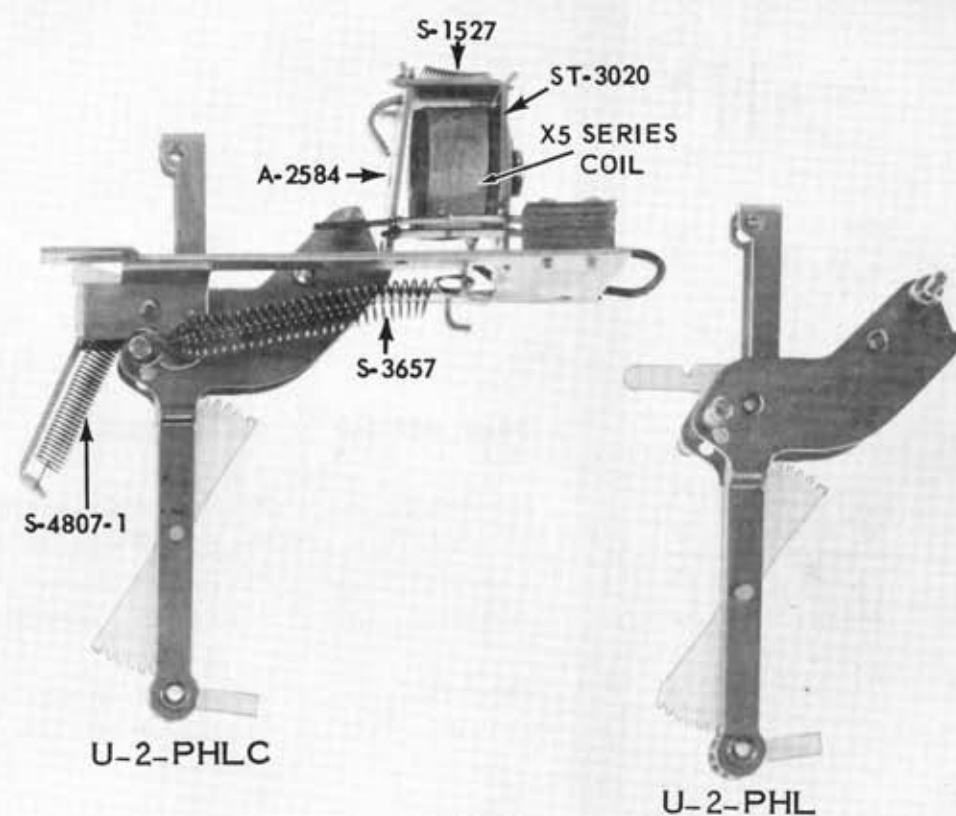
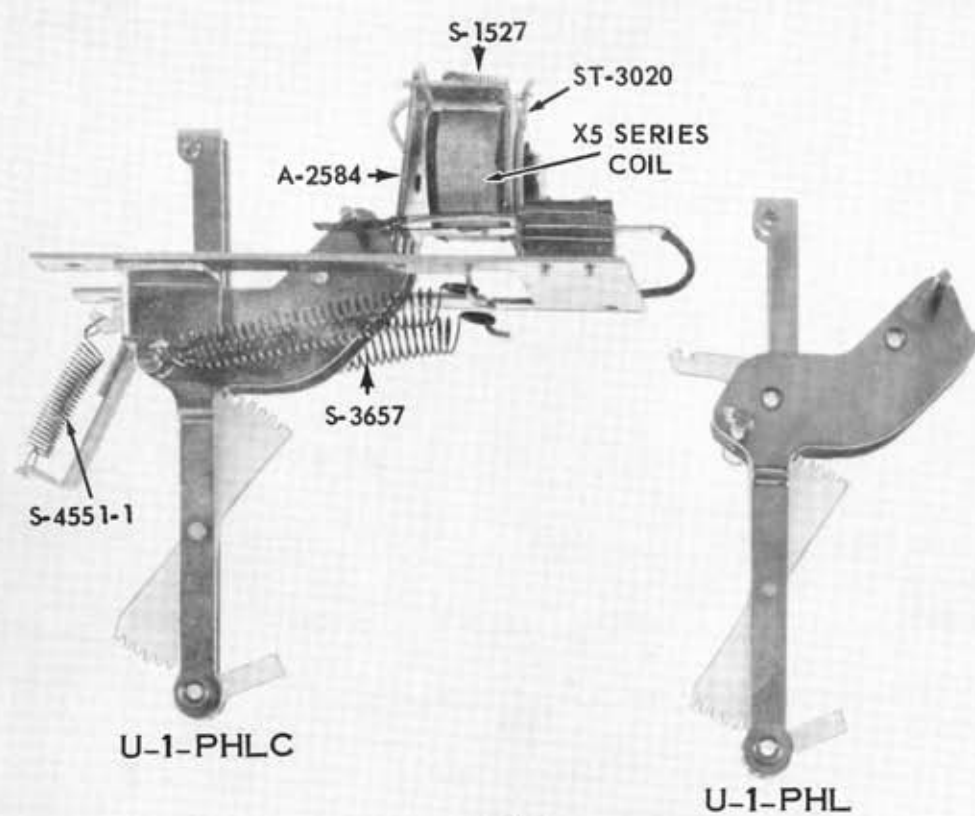
U-1-PHLC
 U-2-PHLC

Pin Hanger Assemblies

PART NUMBER	DESCRIPTION
U-1-PHLC	Pin Hanger Assembly with Link Complete (Less Pin)
U-1-PHL	Pin Hanger Assembly with Link Less Base
U-1-PHC	Pin Hanger Assembly Complete (Less Pin)
U-1-PH	Pin Hanger Assembly Less Base
U-2-PHLC	Pin Hanger Assembly with Link Complete (Less Pin)
U-2-PHL	Pin Hanger Assembly with Link Less Base
U-2-PHC	Pin Hanger Assembly Complete (Less Pin)
U-2-PH	Pin Hanger Assembly Less Base
X5 SERIES	Relay Coil
A-2584	Armature Assemblysee Relay Parts List
ST-3020	Relay Framesee Relay Parts List
S-3657	Trip Spring
S-4551-1	Pivot Spring
S-4807-1	Pivot Spring Used only on Midget Alley Pin Assemblies #2 to 10
S-4807-3	Pivot Spring Used only on Midget Alley Pin Assemblies #1 (not shown)
S-1527	Armature Spring

See Bowling Game Replacement Parts List for parts not shown on these pages

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U-3-PHLC

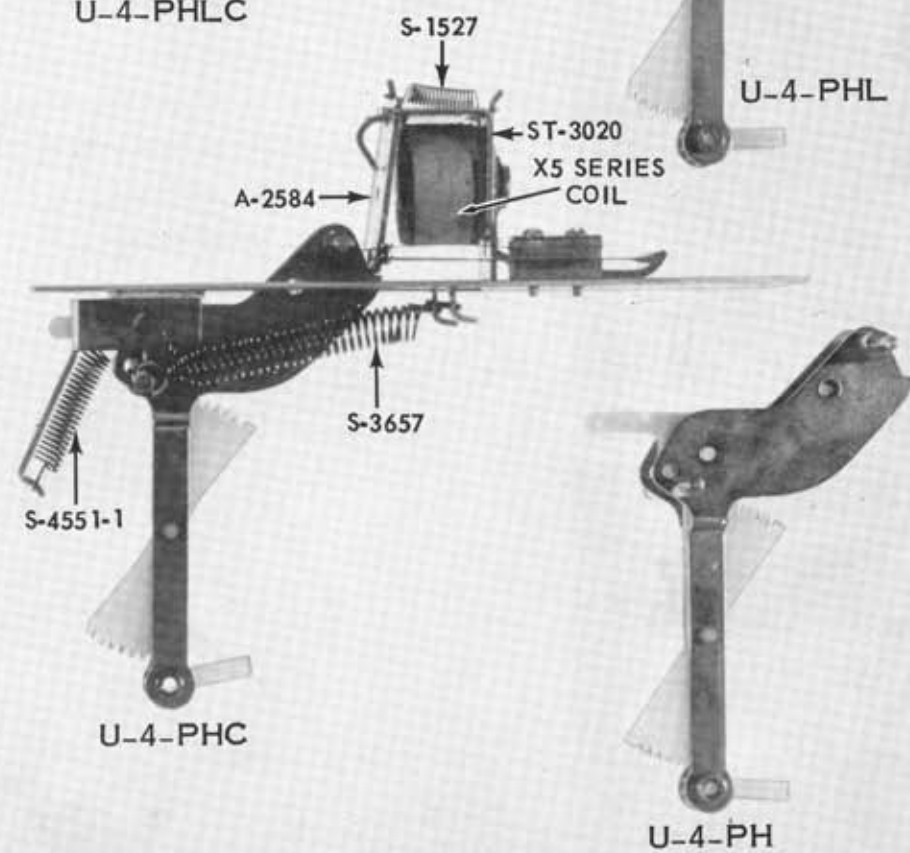
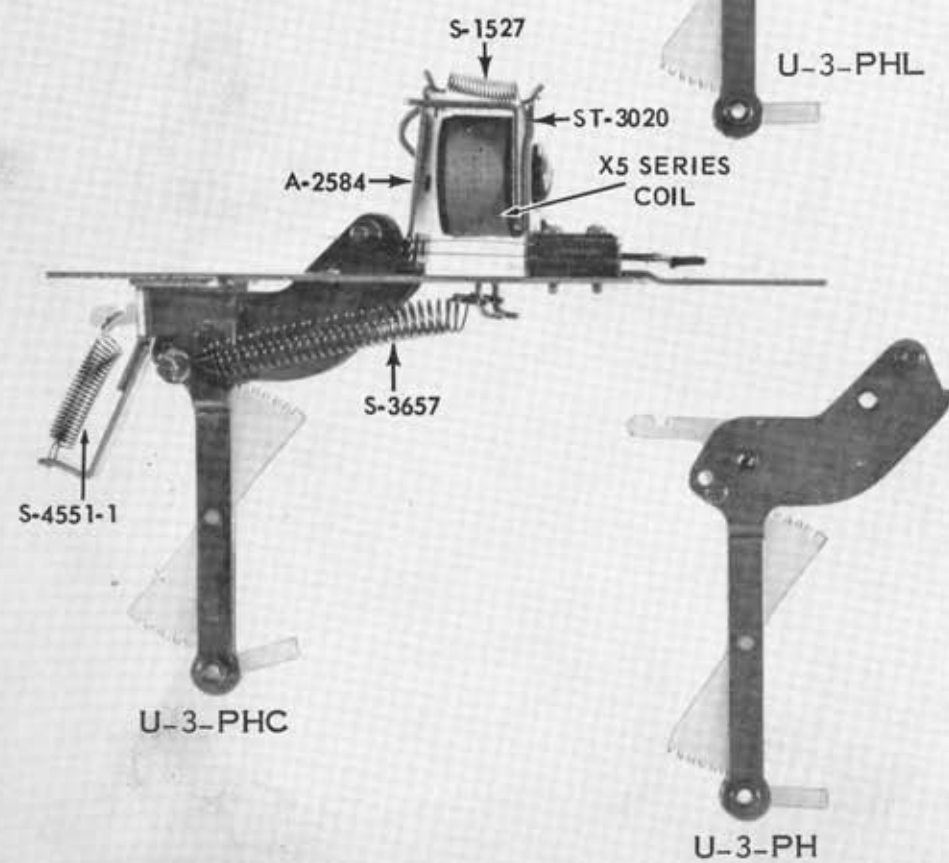
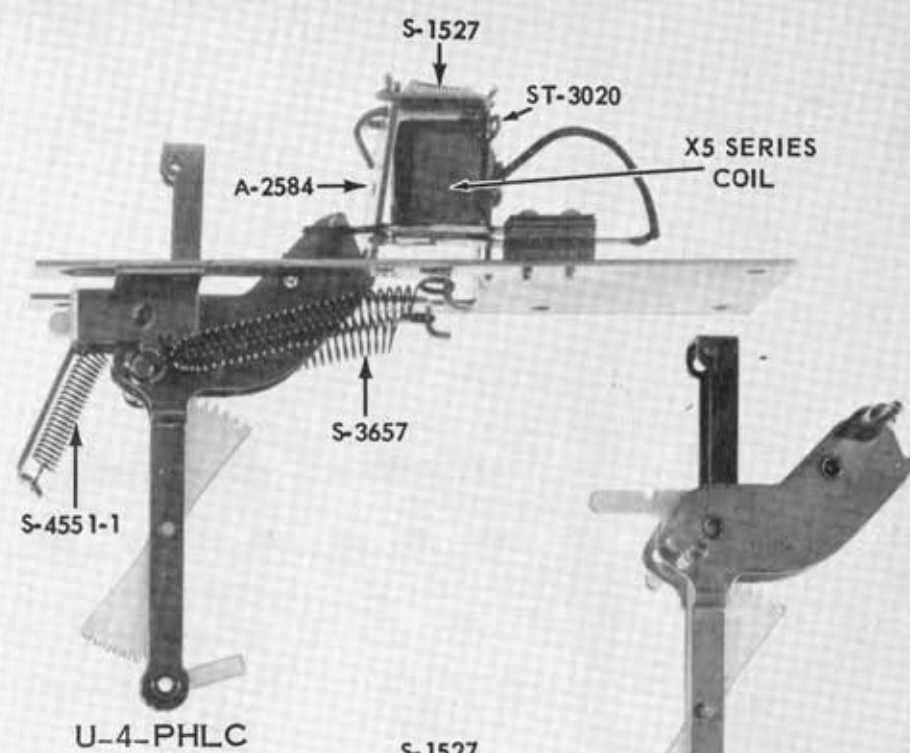
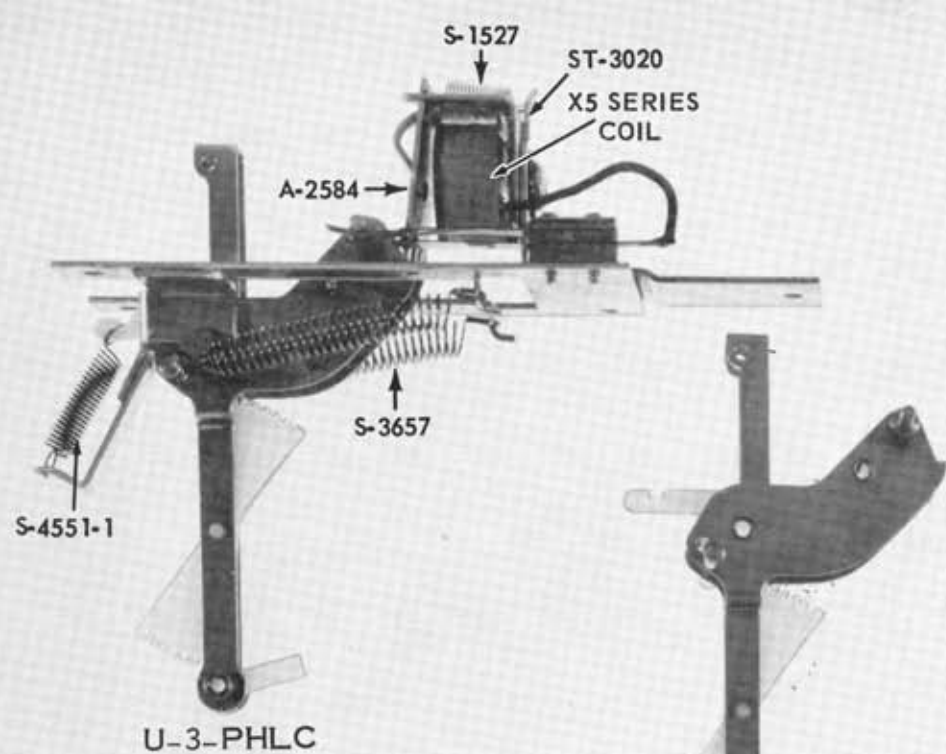
U-4-PHLC

Pin Hanger Assemblies

PART NUMBER	DESCRIPTION
U-3-PHLC	Pin Hanger Assembly with Link Complete (Less Pin)
U-3-PHL	Pin Hanger Assembly with Link Less Base
U-3-PHC	Pin Hanger Assembly Complete (Less Pin)
U-3-PH	Pin Hanger Assembly Less Base
U-4-PHLC	Pin Hanger Assembly with Link Complete (Less Pin)
U-4-PHL	Pin Hanger Assembly with Link Less Base
U-4-PHC	Pin Hanger Assembly Complete (Less Pin)
U-4-PH	Pin Hanger Assembly Less Base
X5 SERIES	Relay Coil
A-2584	Armature Assembly see Relay Parts List
ST-3020	Relay Frame see Relay Parts List
S-3657	Trip Spring
S-4551-1	Pivot Spring
S-4807-1	Pivot Spring Used only on Midget Alley Pin Assemblies #2 to 10
S-4807-3	Pivot Spring Used only on Midget Alley Pin Assemblies #1 (not shown)
S-1527	Armature Spring

See Bowling Game Replacement Parts List for parts not shown on these pages

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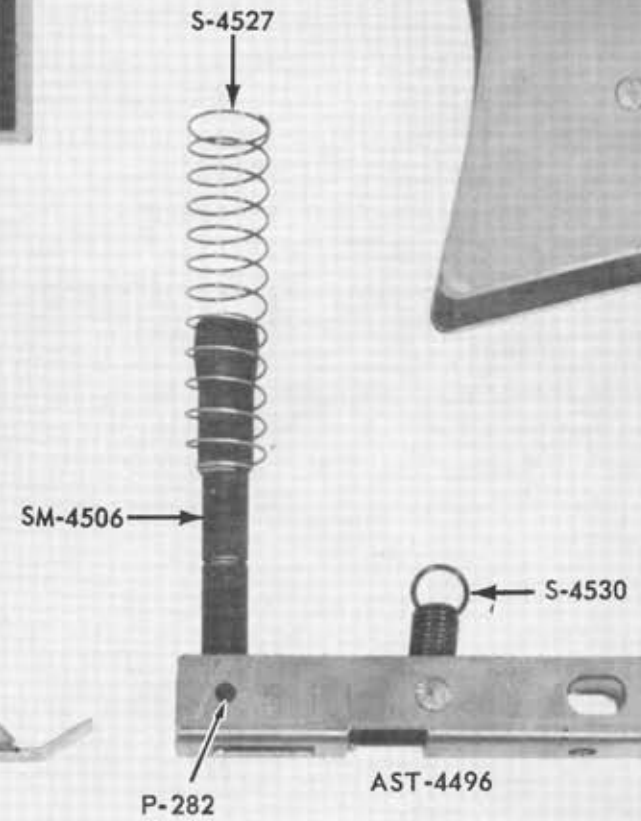
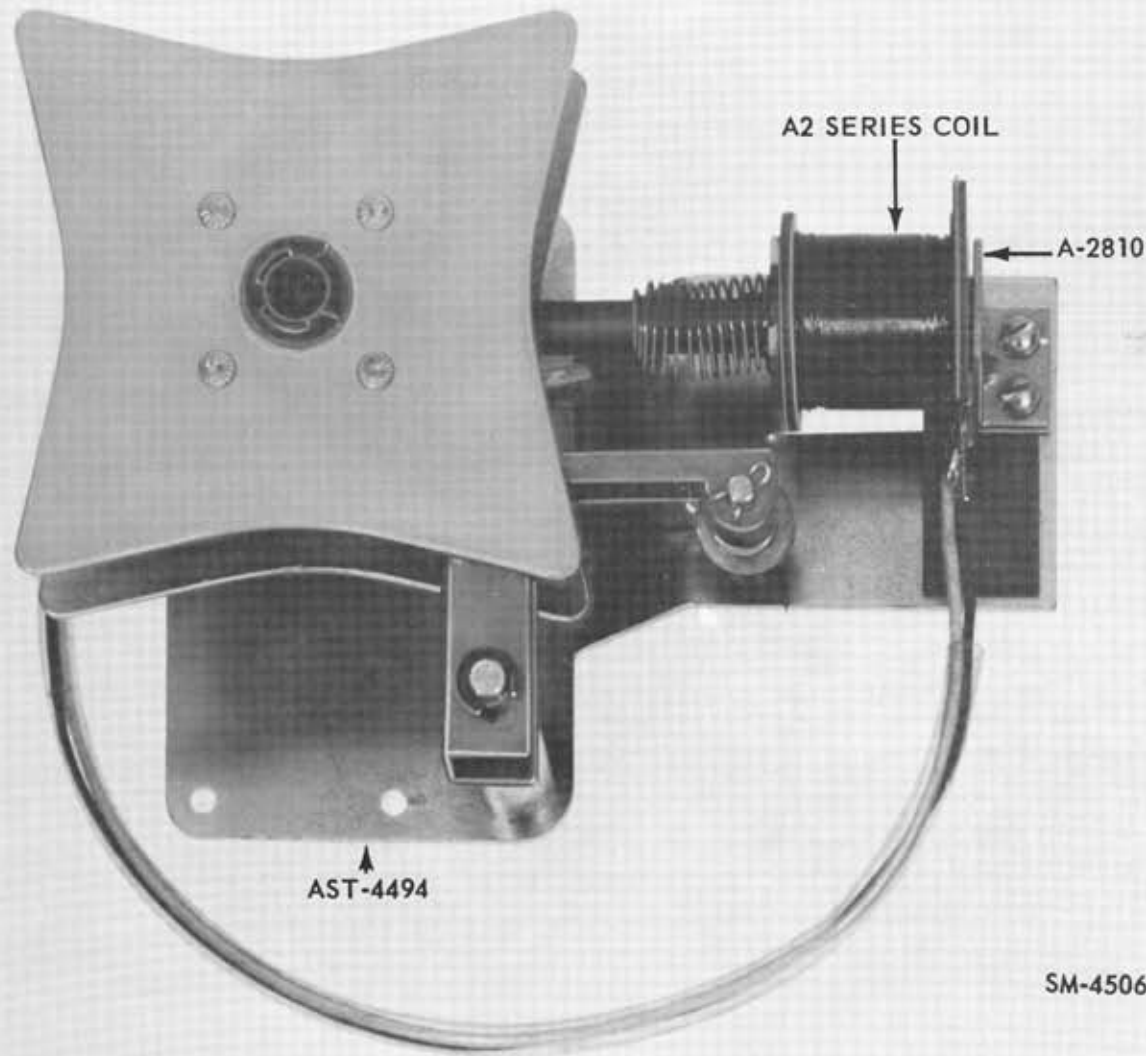
U-2-BG

Ball
Gate
Assembly

PART NUMBER	DESCRIPTION
U-2-BG.....	Ball Gate Assembly Complete
A2 Series.....	Solenoid Coil.....
A-2810	Solenoid Stop Assembly.....
AST-4492	Ball Hopper Assembly.....
AST-4494	Base Plate Assembly.....
ST-4495.....	Latch Arm
AST-4496	Index Arm Assembly Complete
SM-4506.....	Drive Armature
S-4527.....	Drive Spring
S-4528-1.....	Index Spring
S-4530	Release Spring
P-5133-21.....	Tru-Arc Retainer.....
P-5133-37.....	Tru-Arc Retainer.....
P-282	1/8" x 1/2" Spring Pin

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U-2-BG



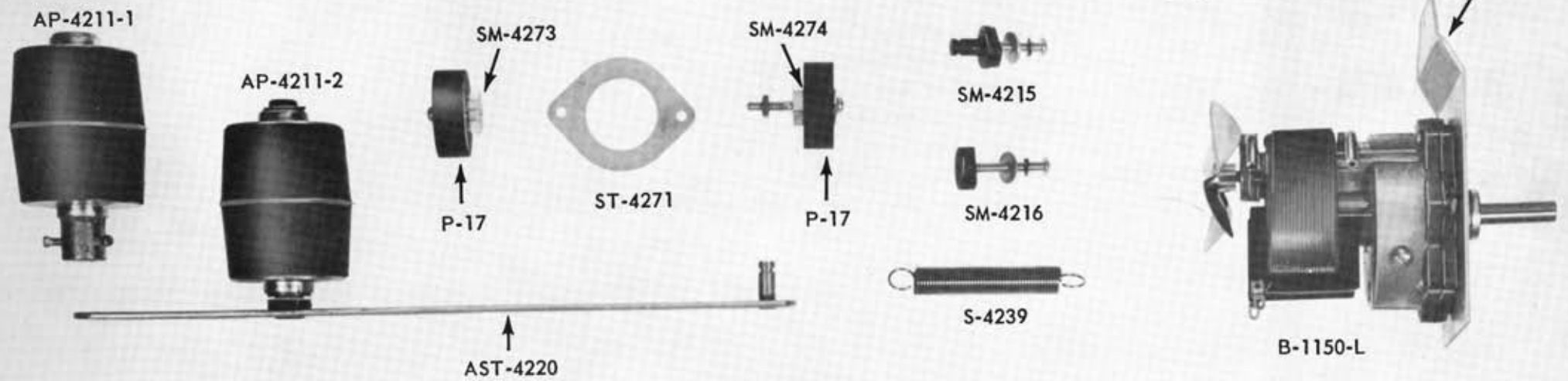
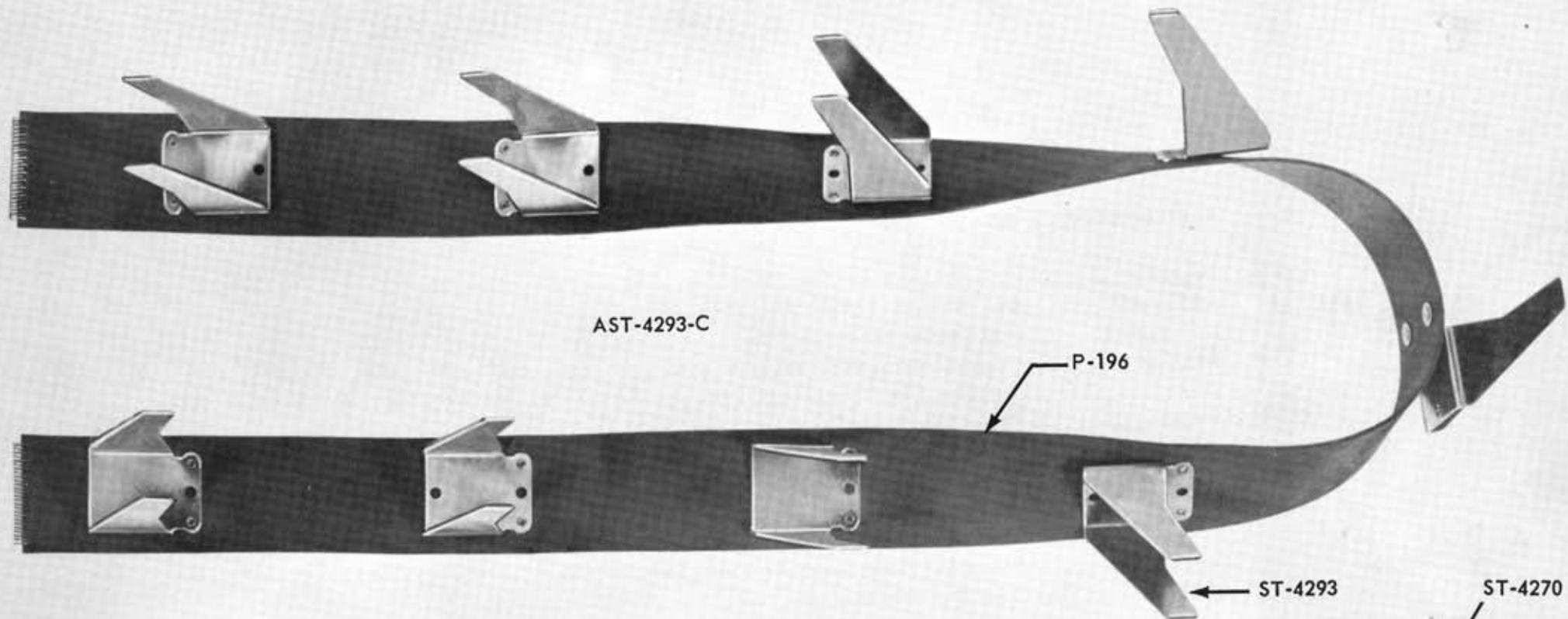
U-3-BLB

Ball Lift
Belt Type
and Parts

PART NUMBER	DESCRIPTION
U-3-BLB	Ball Lift Belt Type and Parts
AST-4293-C	Ball Lift Belt Assembly – Give overall length
P-196	Ball Lift Belt only – Give overall length
ST-4293	Ball Lift Fork only
AP-4211-1	Driver Pulley Assembly
AP-4211-2	Driven Pulley Assembly
B-1150-L	Motor
ST-4270	Motor Support Plate
SM-4215	Guide Stud w/ Screw & Washers
SM-4216	Guide Stud Short w/ Screw & Washers
SM-4273	Upper Motor Mounting Stud
SM-4274	Motor Mounting Stud - Adjustable
P-17	Rubber - Motor Shock Mount
ST-4271	Shock Mount Retainer
S-4239	Tension Spring
AST-4220	Belt Tensioner Bar Assembly Only

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U-3-BLB



U-4-BLC

Ball Lift
Chain Type
and Parts

PART NUMBER	DESCRIPTION
U-4-BLC	Ball Lift — Chain Type and Parts
AST-4488-C	Ball Carriers & Chain Assembly Complete
AST-4488	Ball Carrier Assembly Only —
P-201	Ball Lift Chain 12½" Long (4 to unit) — Not shown separately
P-202	Ball Lift Chain Connecting Link (Includes - Link, Plate & Clip) ... Not shown separately
P-194	Protective Rubber Molding
SM-4273	Upper Motor Mounting Stud
SM-4274	Adjustable Motor Mounting Stud
ST-4271	Shock Mount Retainer
P-17	Rubber - Motor Shock Mount
AST-4490	Alignment Plate Assembly (Less Sprocket)
P-4513	Idler Sprocket
P-4515	Drive Sprocket
P-5133-37	Tru-Arc Retainer
P-283	1/8" x 3/4" Spring Pin
S-4583	Upper Ball Guide
S-4584	Lower Ball Guide
ST-4582	Ball Guide Holder
ST-4270	Motor Support Plate
C-1150-L	Motor — Must give number stamped on housing cover plate

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U-4-BLC

AST-4488-C

P-201

AST-4488

P-194

SM-4274

SM-4273

P-17

P-17

ST-4271

ST-4270

P-4513

AST-4490

S-4583

ST-4582

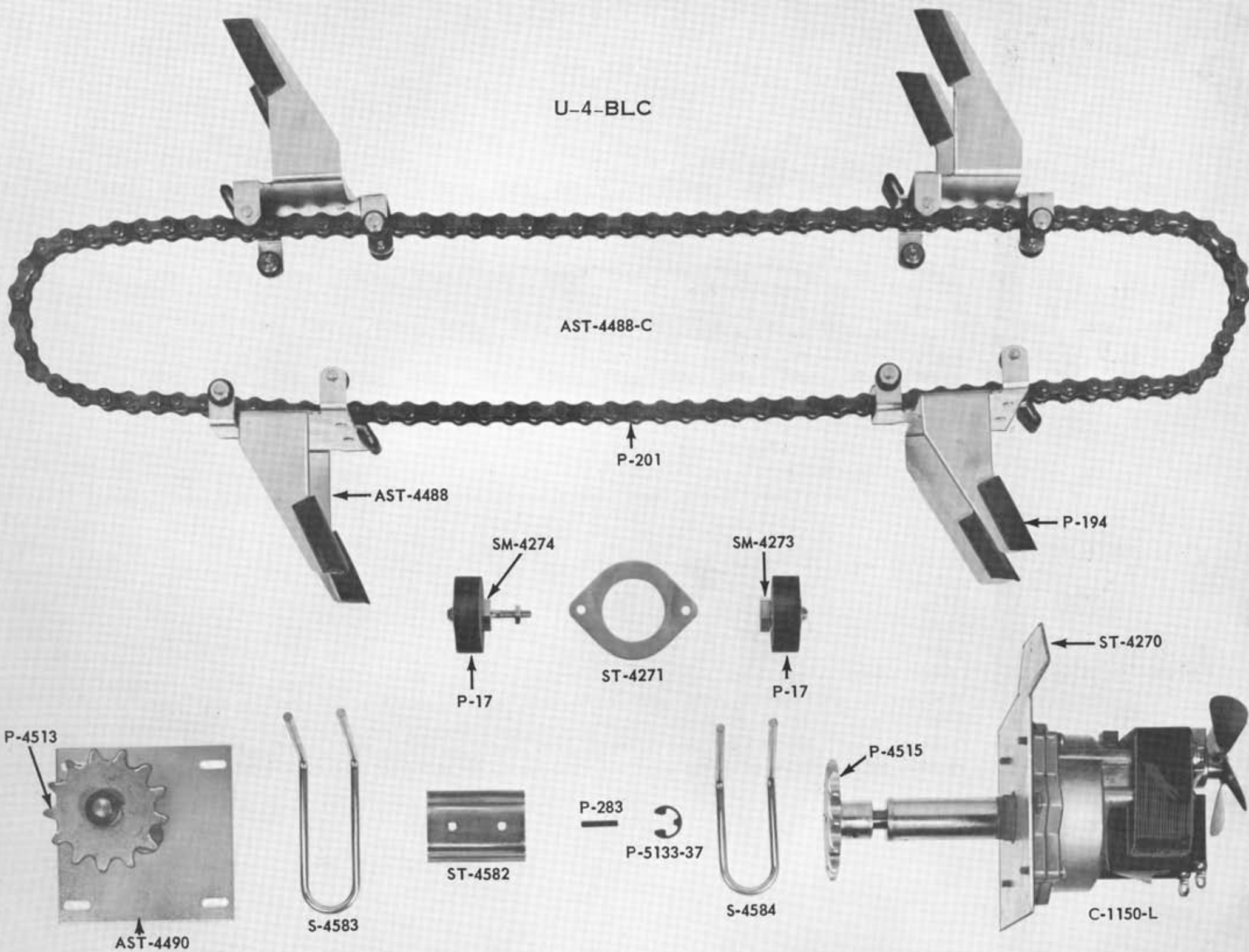
P-283

P-5133-37

S-4584

P-4515

C-1150-L



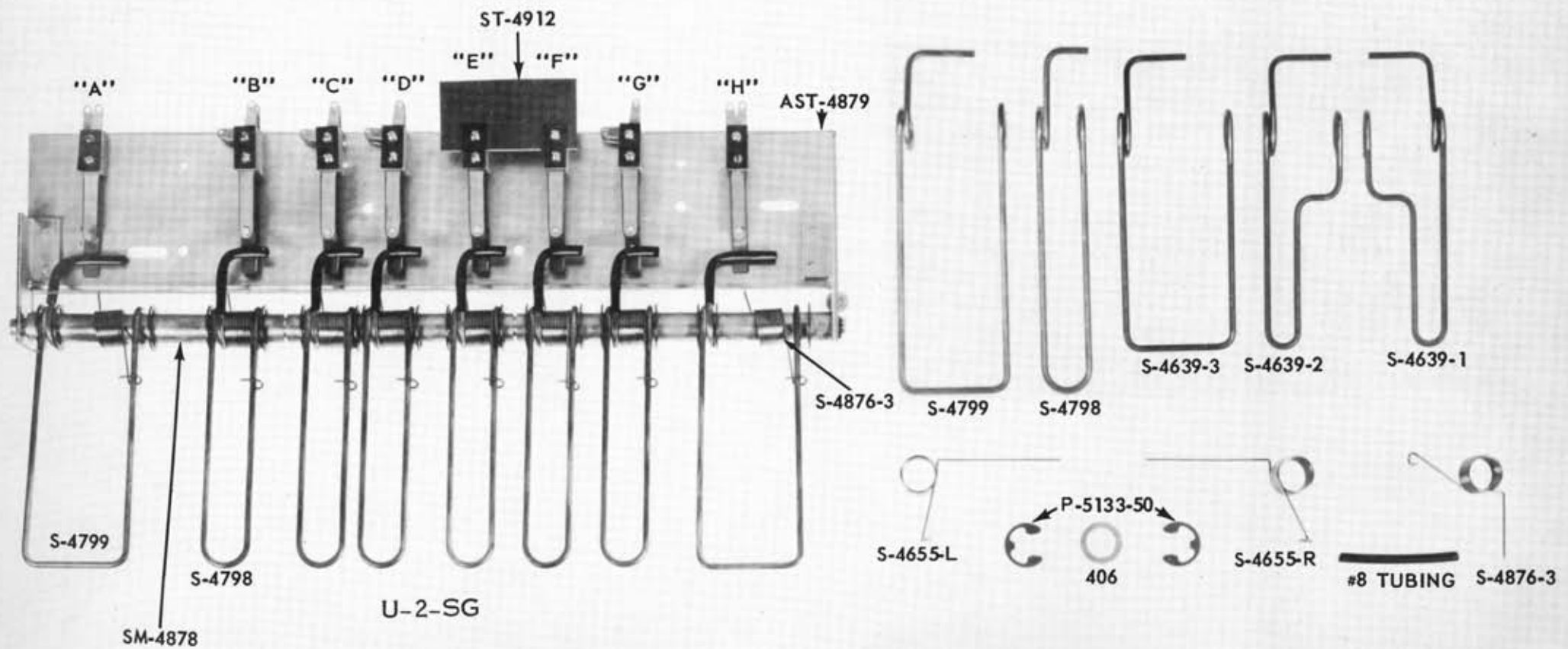
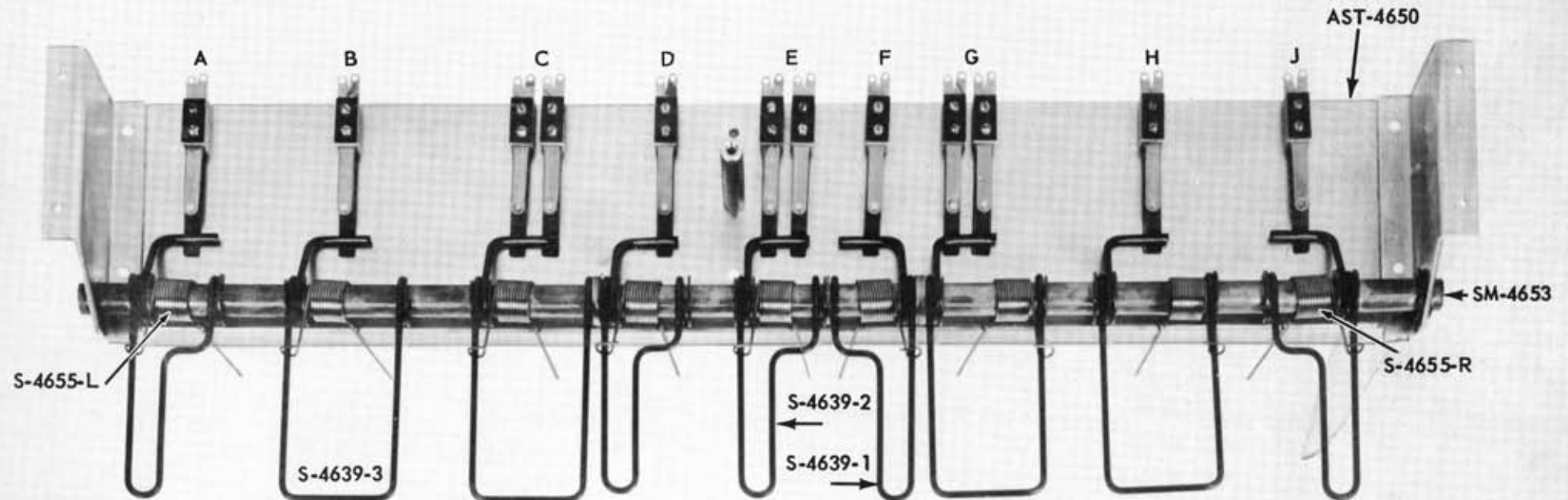
U-1-SG
U-2-SG

Switch Gate Assemblies

PART NUMBER	DESCRIPTION
U-1-SG	Switch Gate Assembly Complete
AST-4650	Base Plate Assembly
S-4639-1	Wire Form Right
S-4639-2	Wire Form Left
S-4639-3	Wire Form
SM-4653	Gate Rod
S-4655-L	Left Torsion Spring
S-4655-R	Right Torsion Spring
P-5133-50	Tru-Arc Retainer
P-129	.515 x 3/4 x 1/16 Stl. Washer
SW-1-SG	Switches - State which - Letter, Name - Serial Number of Game
U-2-SG	Switch Gate Assembly Complete
AST-4879	Base Plate Assembly
S-4798	Wire Form
S-4799	Wire Form
S-4876-3	Torsion Spring
SM-4878	Gate Rod
ST-4912	Switch Insulator - Fish Paper
P-5133-50	Tru-Arc Retainer
P-193	#8 Black Extruded Tubing 2" Long
SW-2-SG	Switches - State which - Letter, Name & Serial Number of Game

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U-1-SG



U-1-KNMU

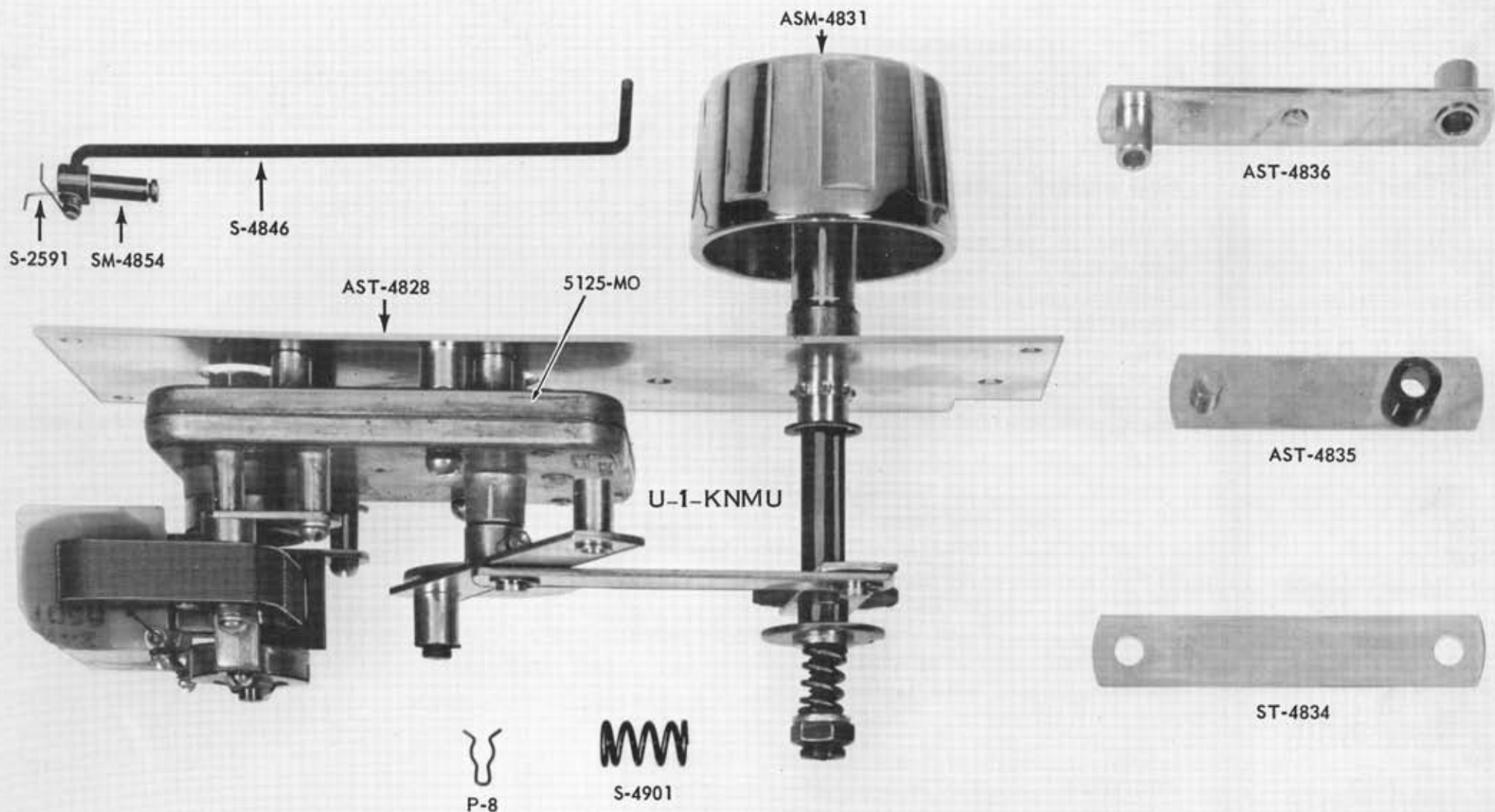
Knob
Motor
Unit
and Parts

PART NUMBER

DESCRIPTION

U-1-KNMU	Knob Motor Unit Complete
AST-4828	Base Plate Assembly Only
5125-MO	Motor
ASM-4831	Knob & Shaft Assembly
AST-4836	Link Assembly
AST-4835	Clutch Cam Link Assembly
ST-4834	Link
AST-4832	Drive Cam Assembly
P-171	Leather Washer
ST-2611-2	Inner Clutch Compression Plate
ST-2465-1	Clutch Compression Plate
S-4901	Clutch Compression Spring
P-8	3/16 Hair Pin Clip
P-401	1/4 x 1/2 x 1/16 Stl. Washer
P-67	1/4 - 20 Shake Proof Hex Nut
P-5133-21	Tru-Arc Retainer
P-5133-37	Tru-Arc Retainer
S-2591	Spring Type Retainer
SM-4854	Guide Pin
S-4846	Wire Form - Ball Guide Link

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U-2-BSH

Ball Shooter Assembly and Parts

PART NUMBER**DESCRIPTION**

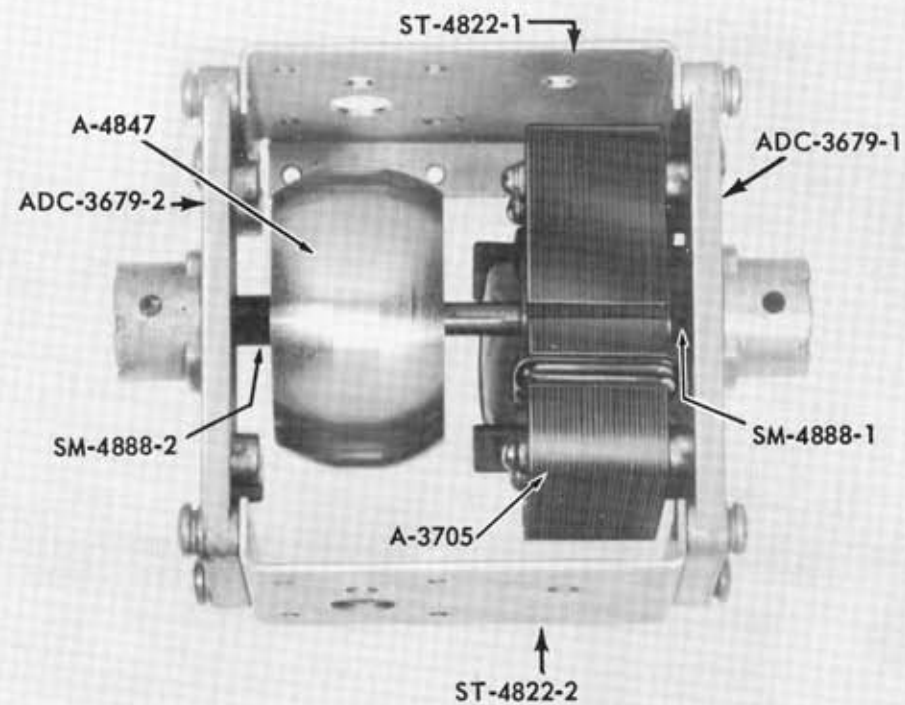
U-2-BSH	Ball Shooter Assembly Complete (Midget BA)
AST-4826	Base Plate Assembly
ST-4271	Shock Mounting Retainer
ASM-4274	Shock Mounting Rubber with Hex Stud
SM-4274	Hex Stud Only
P-17	1/2 x 1 1/2 x 1/4" Hole Round Rubber Only
ST-4820	Ball Guide Cover
AST-4821	Support Bracket
ST-4823	Ball Guide Bracket
AST-4827	Link Bracket Assembly
SM-4845	Ball Shooter Mounting Stud
AST-4853	Ball Shooter Stop Bracket Assembly, Complete
ST-4853	Ball Shooter Stop Bracket Only
SM-4273	Hex Stud Only
A-4908-C	Switch Bracket Assembly with Switch
P-5133-50	Tru-Arc Retainer
A-4889	Roller Assembly
U-5-MO	Ball Shooter Motor Only, Complete
ADC-3679-1	Motor Mounting and Bearing Bracket
ADC-3679-2	Motor Mounting and Bearing Bracket
A-3705	Field Lamination Assembly
ST-4822-1	Motor Frame Spacer
ST-4822-2	Motor Frame Spacer
A-4847	Roller, Shaft and Rotor Assembly
SM-4888-1	Shooter Motor Spacer (Short)
SM-4888-2	Shooter Motor Spacer (Long)

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U-2-BSH

U-5-MO →

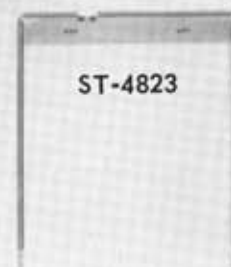
AST-4826



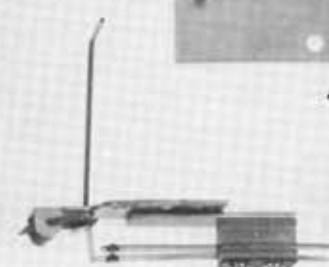
AST-4821



AST-4827



ST-4823



A-4908-C



ST-4271



A-4889



SM-4845



SM-4274

P-17

SM-4273



P-5133-50



AST-4853



ST-4853

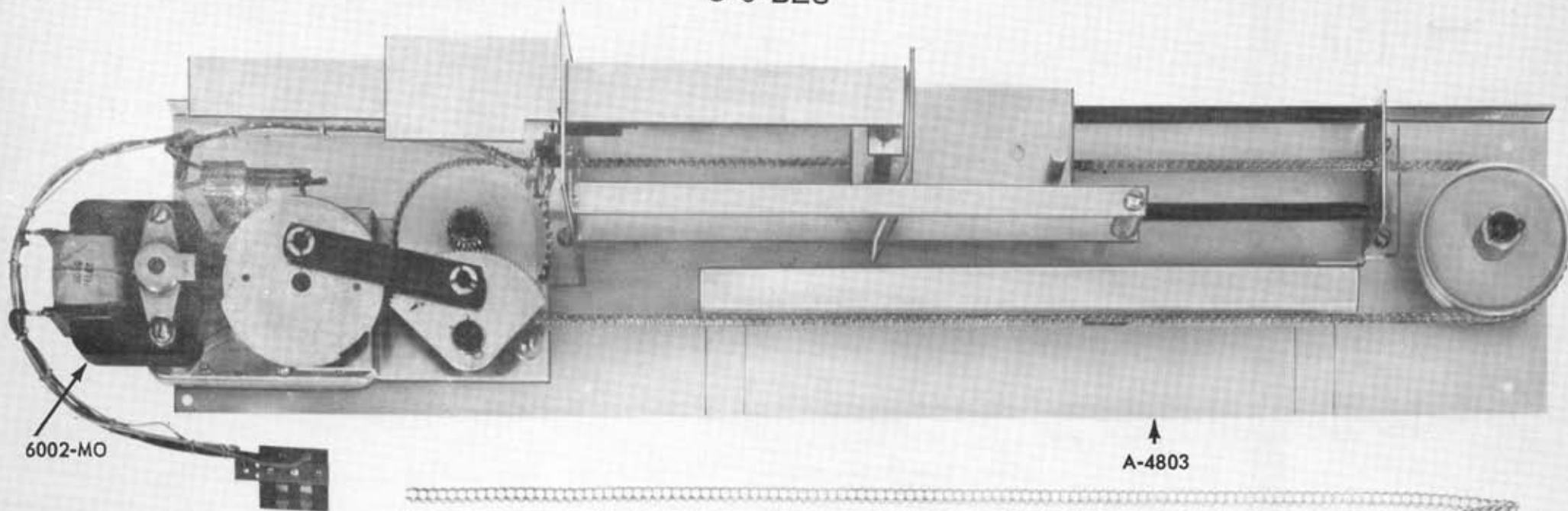
U-5-BLU

Ball
Lift
Unit

PART NUMBER	DESCRIPTION
U-5-BLU	Ball Lift Unit Complete
A-4802	Lower Bracket Assembly – Less Switch
A-4803	Base Plate Assembly, only
A-4804	Carriage Assembly
A-4724	Sprocket and Gear Assembly
A-4761	Pulley Assembly
A-4785	Segment and Hub Assembly
A-4789	Cam Assembly Motor Run
A-4773	2nd Ball Strap Assembly
S-4807-3	Pivot Spring
S-4770	Chain Holder, Wire Form
S-4865	Swivel Type Spring
S-4862	Wire Form, Chain Hitch
P-8	3/16 Hair Pin Clip
P-51	5/16 Hair Pin Clip
P-4864	Chain, Ball Lift
6002-MO	Motor
ST-4748	Ball Elevator
ST-4834	Link
ST-4863	Counter Weight
ST-4774	Front Ball Guide Strap
ST-4808	2nd Ball Deflector
SM-4776	Roller, Trip
SM-4777	Trip Spacer
SM-4762	Guide Rod
SM-4842	Ball Trough Shaft
SM-4787	Actuator, Elevator Switch
P-403	1/8 x 1/4 x .020 Washer
SW-BLST	Ball Lift Starter Switch

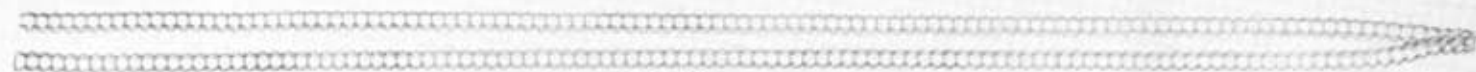
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U-5-BLU

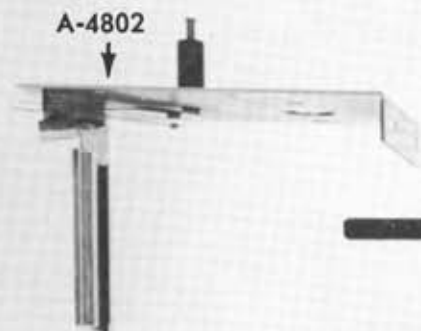


6002-MO

A-4803



P-4864



A-4802



A-4773



SM-4762



ST-4774



ST-4863



A-4761



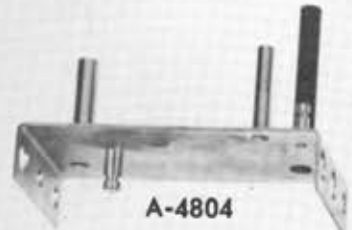
A-4789



ST-4748



A-4724



A-4804



SM-4776



SM-4777



S-4865



S-4807-3



SM-4787



SM-4842



ST-4834



SW-BLST



S-4862



S-4770



P-51



P-8



P-403



ST-4808



A-4785

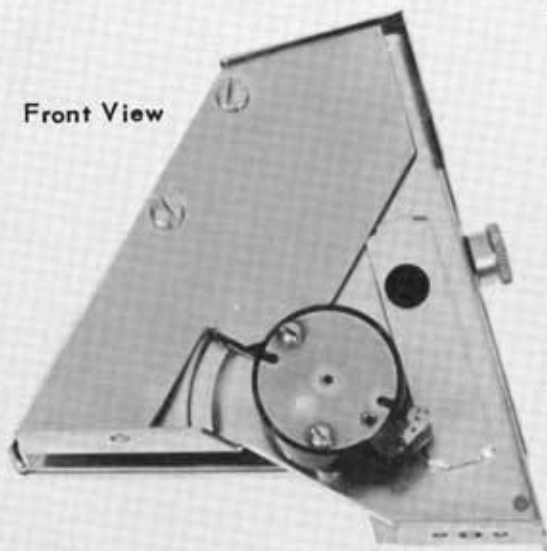
U-1-DCU

Drop Chute
Unit

PART NUMBER	DESCRIPTION
U-1-DCU.....	Drop Chute Unit Complete (Specify 5¢ - 10¢ - 25¢).....
AST-581-DC.....	Drop Chute Body.....
ST-587-DC.....	Drop Chute Cover Plate
ST-586-DC.....	Coin Guide Plate
SM-584-DC.....	Thumb Screw
SM-2511.....	Coin Switch Spacer
SW-1-DC.....	Coin Switch Assembly
P-86	6-32 x 1/4 Binder Head Machine Screw
P-4	4-36 Round Head Machine Screw. Give length.....
ASM-576-DC.....	Escutcheon Plate Assembly (Specify 5¢ - 10¢ - 25¢).....

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Front View

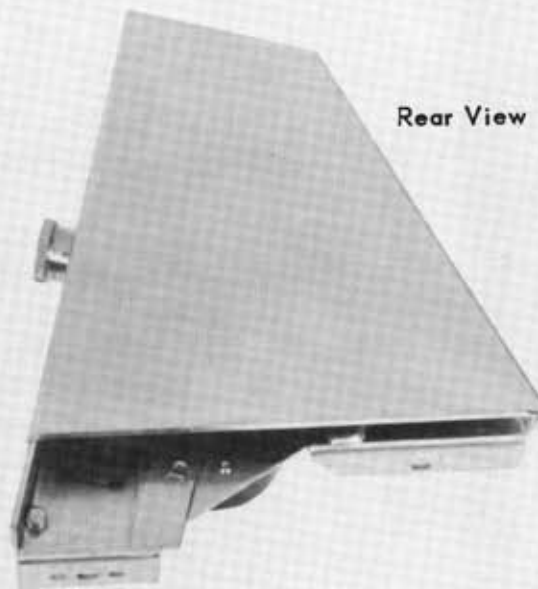


U-1-DCU



ASM-576-DC

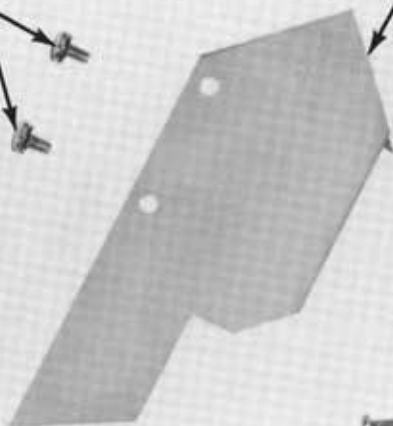
Rear View



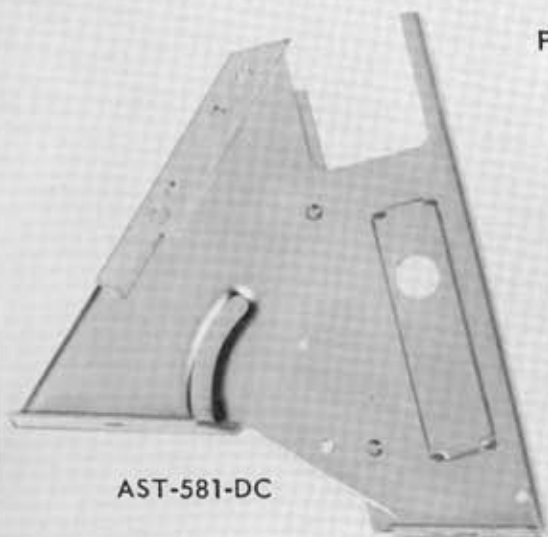
P-86



ST-586-DC



AST-581-DC



SM-584-DC



P-4

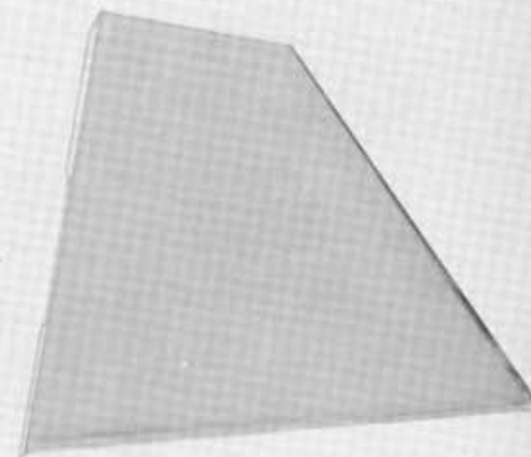


SM-2511



SW-1-DC

ST-587-DC



U-2-SR

Slug
Rejector

PART NUMBER	DESCRIPTION
U-2-SR	Slug Rejector Complete (Specify type 5¢ - 10¢ - 25¢).....
AST-2781B.....	Lockout Armature Assembly (See Relay Parts)
ST-2763	Slug Track
ST-3004	Switch Guard (Fish paper) (See Relay Parts)
ST-2780	Lockout Relay Frame
ST-2758	Coin Deflector.....Specify 5¢ - 10¢ - 25¢
ST-3129-3	Terminal Insulator.....
ST-2762	Coin Return Cup Guide
S-2869	Latch Spring
S-27-AC.....	Relay Spring
S-2788	Hinge Spring
SM-2787	Hinge Pin.....
C-2793.....	#2 Alnico (Iron Slug) Magnet.....(Specify 5¢ - 10¢ - 25¢)
SR-566-SW.....	Coin Switch Assembly
#16 Series.....	Coin Lockout Relay Coil
DC-2783.....	Coin Magnet
DC-2765.....	Coin Return Cup
DC-2782.....	Coin Receiver.....(Specify 5¢ - 10¢ - 25¢)
P-52	1/16 Hair Pin Clip
P-88.....	8-32 x 3/16 Binder Head Machine Screw
P-4.....	4-36 Round Head Machine Screw — Give length
P-403	1/8 x 1/4 x .020 Brass Washer
P-93	4/36 x 1/8 Brass Round Head Machine Screw
P-94	4/36 x 3/16 Round Head Machine Screw.....

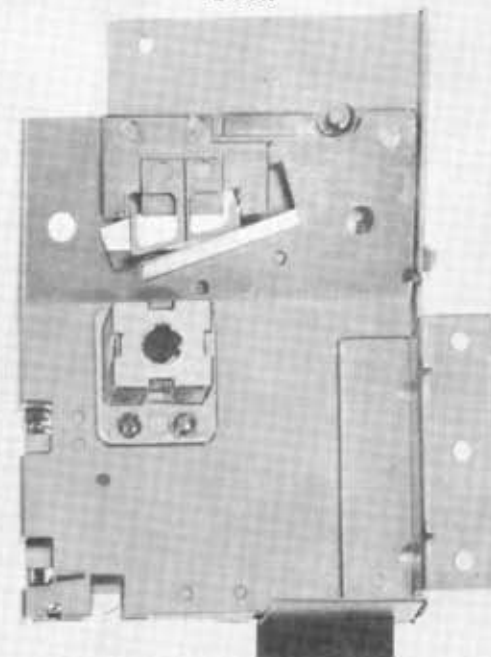
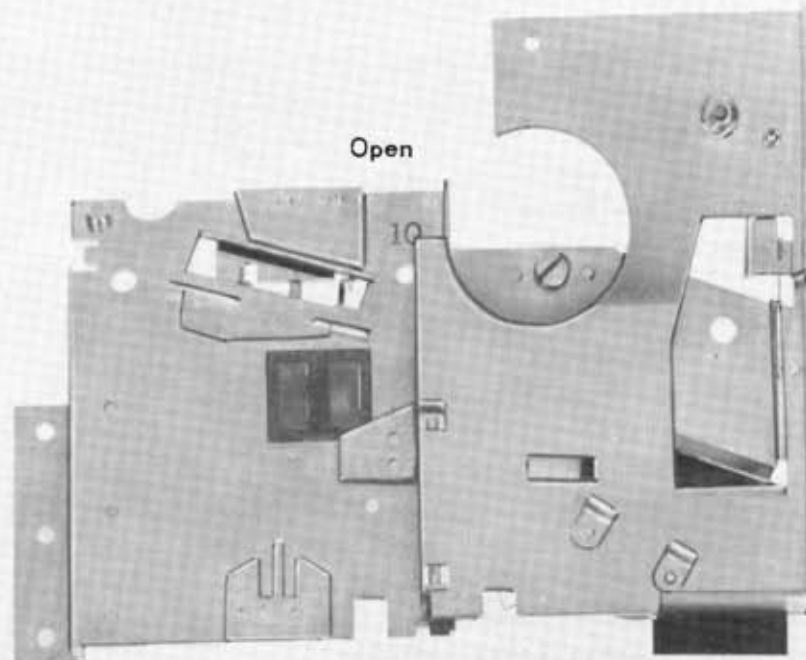
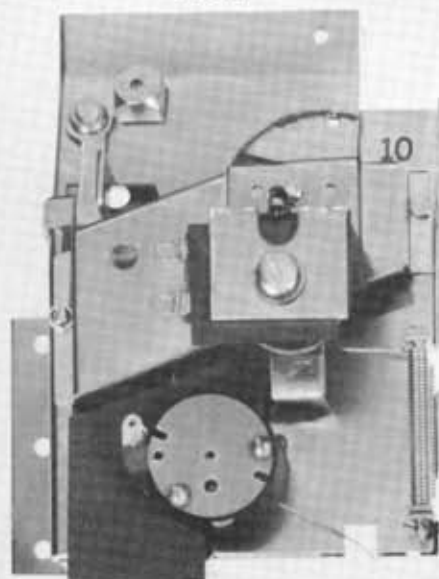
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U-2-SR

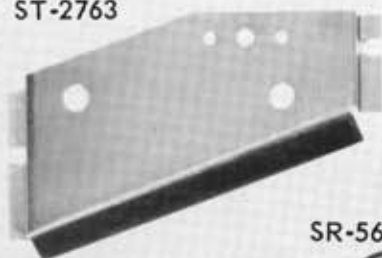
Front

Open

Back



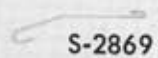
ST-2763



SR-566-SW



S-2869



P-94

P-403



ST-3004

P-4



C-2793



P-88



#16 SERIES COIL



S-27-AC



ST-2780



ST-3129-3



AST-2781-B



S-2788



P-52



SM-2787



P-93



P-403

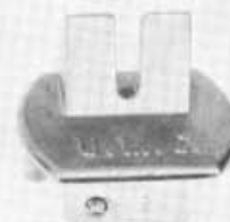


DC-2783

ST-2758



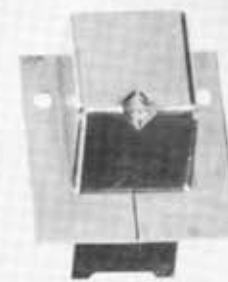
DC-2782



DC-2765



ST-2762

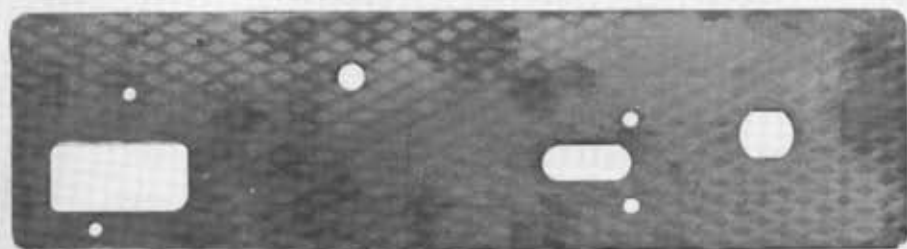


U-4-CCU

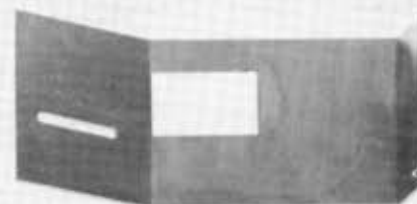
Coin
Chute
Unit

PART NUMBER	DESCRIPTION
U-4-CCU	Coin Chute Unit Complete..... Give coin denomination
AST-4457	Coin Chute Main Frame
ST-4458	Coin Chute Front Plate
ST-4631	Cash Box Cover
W-4478	Coin Chute Spacer Block (Wood)
SM-4463-2	Lock Rod (Long)
SM-4463-1	Lock Rod (Short)
#750	Coin Chute Front Door Lock Complete
SM-4474	Lock Spacer for #750 Lock
SM-4570	Lock Spacer for Ace Lock
P-71-35R	Retainer for 3 Prong Plug (Comes with Plug See P-71-35 below)
.....	Lock Nut (Comes with Lock)
ST-4466	Lock Bracket
ASM-576-DC	Escutcheon Plate Assembly 5 - 10 & 25¢
AST-2400	Coin Return Cup
ST-4630	Cash Box Lock Bracket
AST-2387	Coin Scavenger Lever Assembly
ST-2396	Coin Introducer Cover
ST-2397	Coin Introducer Frame
SM-584-DC	Thumb Screw
SM-2388	Scavenger Push Rod
AST-2393	Rejector Mounting Frame Assembly (Frame only)
P-92	8/32 x 1-1/4" Carriage Bolt
P-71-35	3 Prong Plug with Retainer
S-2339	Scavenger Lever Return Spring
.....	Lock Screw (Comes with Lock)
SM-2392	Coin Switch Spacer
P-4468	Lock Gear for #750 Lock
P-4567	Lock Gear For Ace Lock
ST-578	Coin Return Bracket
AST-2390	Coin Lock-out Armature Assembly
P-5133-21	Tru-Arc Retainer
P-8	3/16 Hair Pin Clip
S-1527	Armature Spring
ST-4703	Lock Gear Cover Plate
SW-CC-2	Coin Chute Switch
#6 Series	Coin Lock-Out Coil
.....	Coin Chute Only..... Give Coin Denomination
AST-4629	Cash Box Not Shown

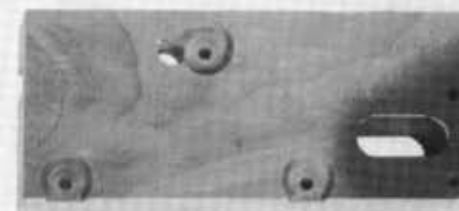
TO AVOID
DELAY
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PART NUMBER
WITH
DESCRIPTION
TOGETHER
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SERIAL
NUMBER
OF GAME



ST-4458



ST-4631



W-4478



SM-4463-2

ASM-576-DC



AST-2400



ST-4630



#750



SM-4474



SM-4570

P-71-35R



Lock Nut



ST-4466



AST-2387



SM-584-DC

ST-2396



SM-4463-1



SM-2388



ST-2397



P-92



P-71-35



S-2339



Lock Screw



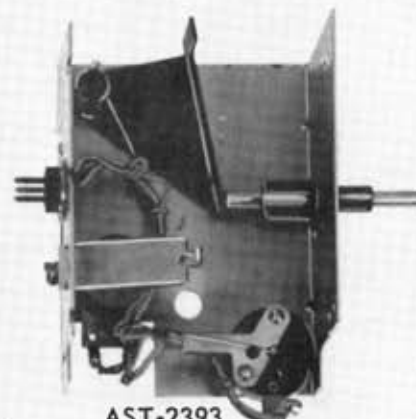
SM-2392



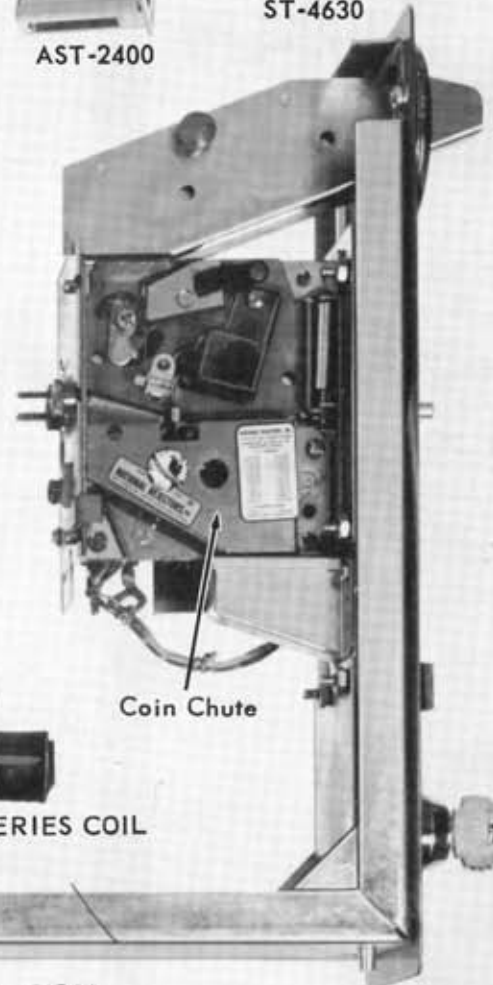
P-4468



P-4567



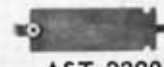
AST-2393



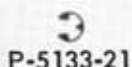
U-4-CCU



ST-578



AST-2390



P-5133-21



P-8



S-1527



ST-4703



SW-CC-2



#6 SERIES COIL

Coin Chute

AST-4457

U-2-FPU

Free
Play
Unit

PART NUMBER

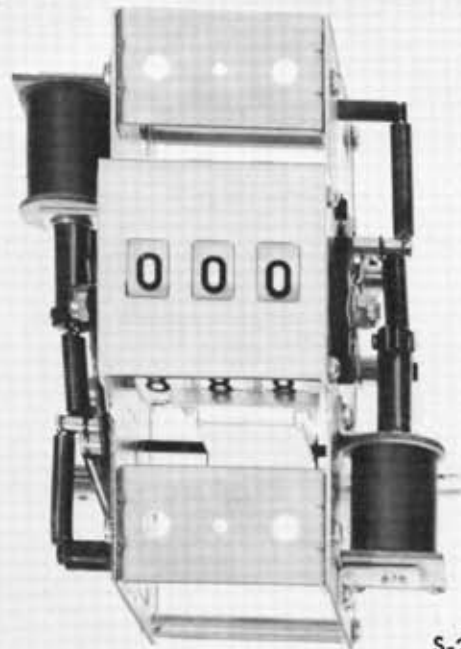
DESCRIPTION

U-2-FPU	Free Play Unit Complete
AST-2201-R.....	Right Side Frame Assembly
AST-2201-L	Left Side Frame Assembly.....
ST-2202.....	Spacer Bracket
AST-2203	Drive Arm Assembly.....
AST-2204	Drive Pawl Assembly.....
S-2236.....	Drive Spring
S-2237.....	Drive Arm Spring
S-2238.....	Drive Pawl Spring
S-2239.....	Index Pawl Spring
ST-2207.....	Drive Ratchet..... (Use 3 for each assembly).....
ST-2211.....	Escutcheon Plate
SM-2215.....	Pinion Shaft
SM-2216.....	Switch Actuator Shaft.....
ST-2693.....	Switch Actuator Bracket
ST-226	Switch Mounting Bracket.....
SW-1	3 - Leaf Switch with Bracket
SW-2	3 - Leaf Switch with Side Lug & Bracket.....
ASM-2217	Drive Coil Armature & Spring Assembly.....
SM-2223.....	Frame Spacer
ST-2224.....	Index Pawl Spacer Washer
A-2454	Index Pawl Assembly.....
SM-2722.....	Dial Shaft
#1 Series.....	Solenoid CoilSpecify number stamped on end of coil.....
A-2810	Solenoid Stop Assembly
ST-8-SU-3	Solenoid Bracket
E-241.....	#1 Dial Wheel(Nylon).....
E-240.....	#2 Dial Wheel(Nylon).....
E-242.....	#3 Dial Wheel(Nylon).....
E-243.....	Pinion Gear
P-8	3/16" Hair Pin Clip
P-10.....	6-32 x 3/16 Round Head Machine Screw..... (Sems)
P-68.....	10-32 Elastic Nut
P-89.....	8-32 x 5/16 Binder Head Machine Screw
P-414	1/4 x 3/8 x 1/16 Steel Washer
P-415.....	15/32 x 11/16 x 1/64 Shim Washer
P-409.....	3/16 x 5/8 x 1/16 Washer

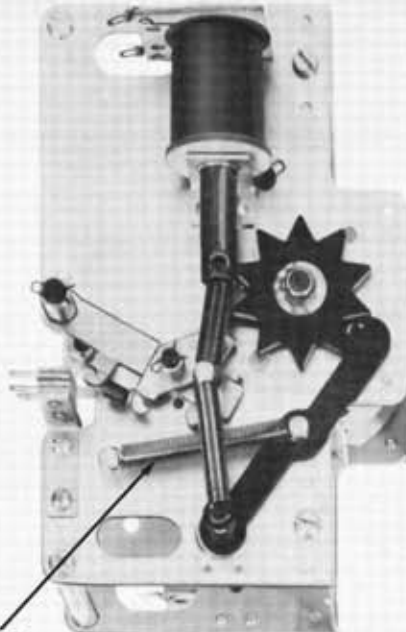
TO AVOID
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OF GAME

U-2-FPU

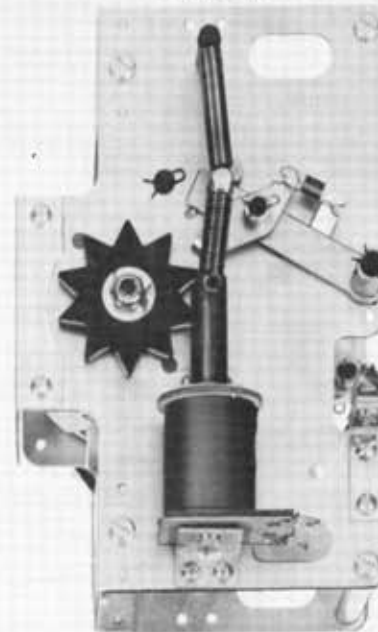
Front



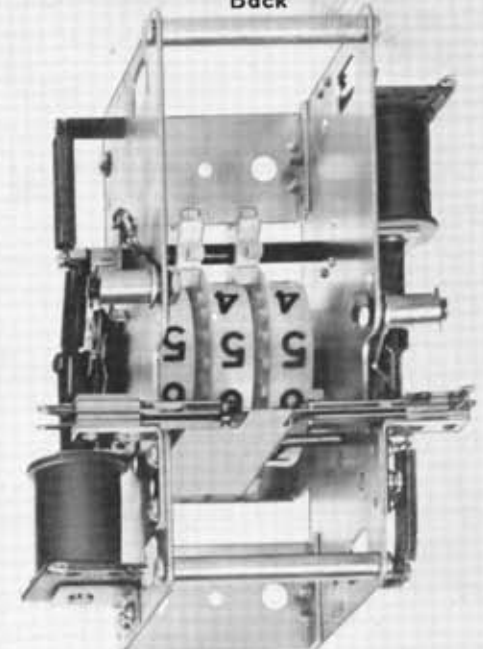
Left Side



Right Side

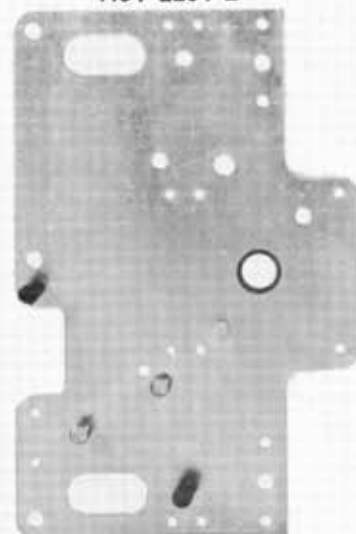


Back

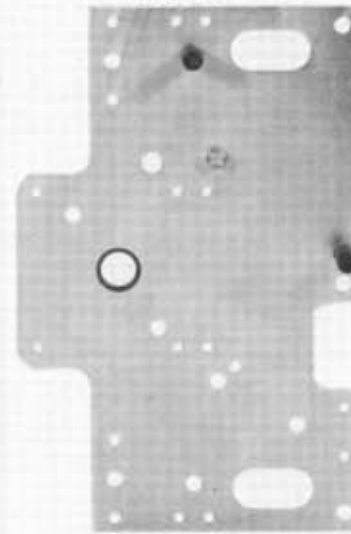


S-2239

AST-2201-L

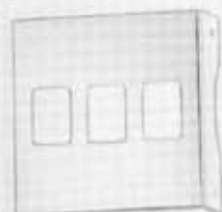
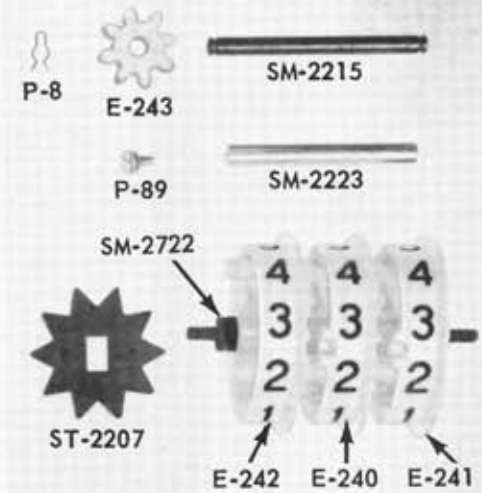


AST-2201-R



S-2237

A-2454



ST-2211



ST-2202

P-10

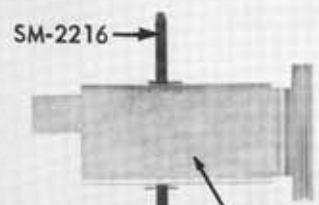


SW-2

P-89



SW-1



SM-2216

ST-2693



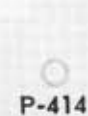
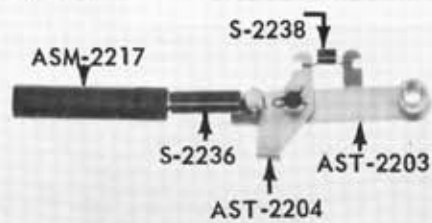
A-2810



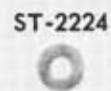
#1 SERIES
COIL



ST-8-SU-3



P-414



ST-2224



P-415



P-409



P-68

U-1-CSU

Carriage
Step-Up
Unit

PART NUMBER	DESCRIPTION
U-1-CSU	Carriage Step Up Unit Complete..... Specify which number of horse unit
AST-1-SU	Base Plate Assembly
AST-21-SU	Large 50 Tooth Ratchet and Shaft Assembly
AST-23-SU	7" Aluminum Cord Wheel
AST-1830	Cable Clamp with Screws
AST-1832	Commutator Disc. Wired
AST-1837	Drive Arm and Pawl Assembly
AST-1838	Reset Arm Assembly
SM-1839	Drive Arm Post
A-3377	Ball Bearing Pulley Assembly
SM-3378	Pulley Stud
SM-12-SU	Solenoid Drive Armature
NSM-13-ASU	Solenoid Reset Armature
#1 Series	Solenoid Drive Coil
#2 Series	Solenoid Reset Coil
A-2810	Solenoid Stop Assembly
S-1-SU	Torsion Spring
S-2-SU	Drive Arm and Pawl Spring
S-4-SU	Reset Arm Latch Spring
P-1	10/32 x 3/4 Brass Round Head Machine Screw with Nut and Lock Washer
P-8	3/16" Hair Pin Clip
P-10	6/32 x 3/16 Round Head Sems Machine Screw
P-49	Radio Dial Cord
P-50	1/16" x 1" Cotter Pin
P-72	10/32 Nut
P-150	#10 Split Lock Washer

TO AVOID
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S-4-SU

S-2-SU

AST-1838

AST-1837

NSM-13-ASU

#2 SERIES COIL

A-2810

P-10

AST-21-SU

S-1-SU

AST-1830

P-50

P-1

SM-12-SU

#1 SERIES COIL

A-2810

P-10

U-1-CSU

AST-1-SU

P-72

P-150

SM-1839

P-8

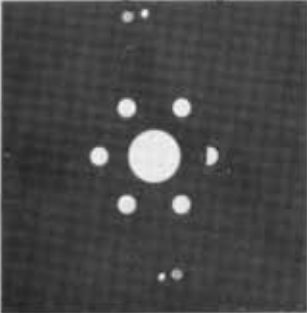
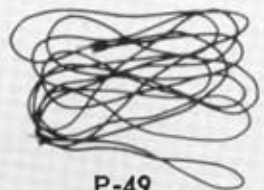
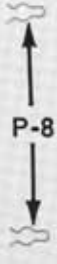
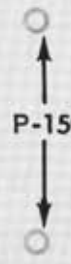
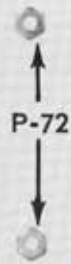
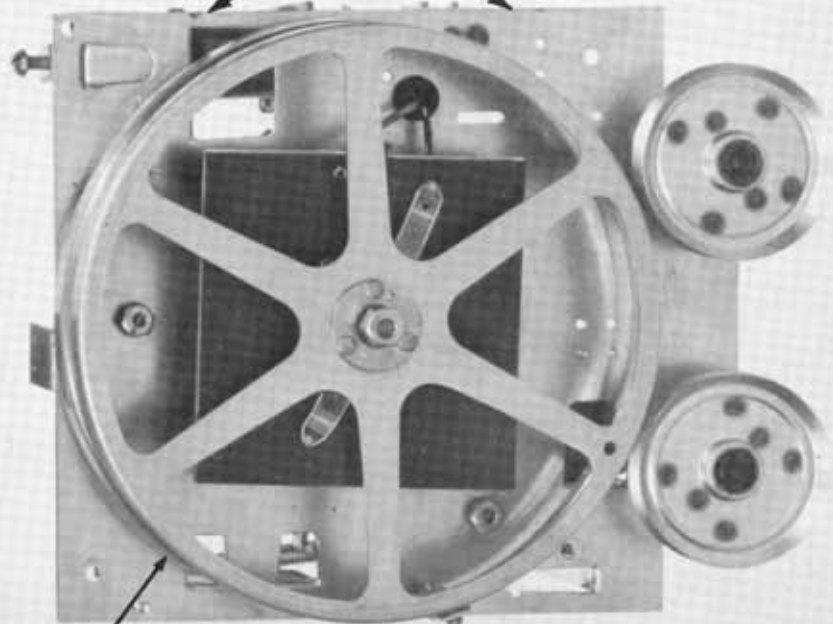
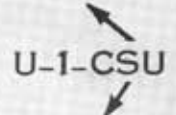
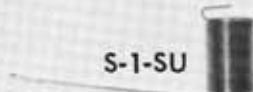
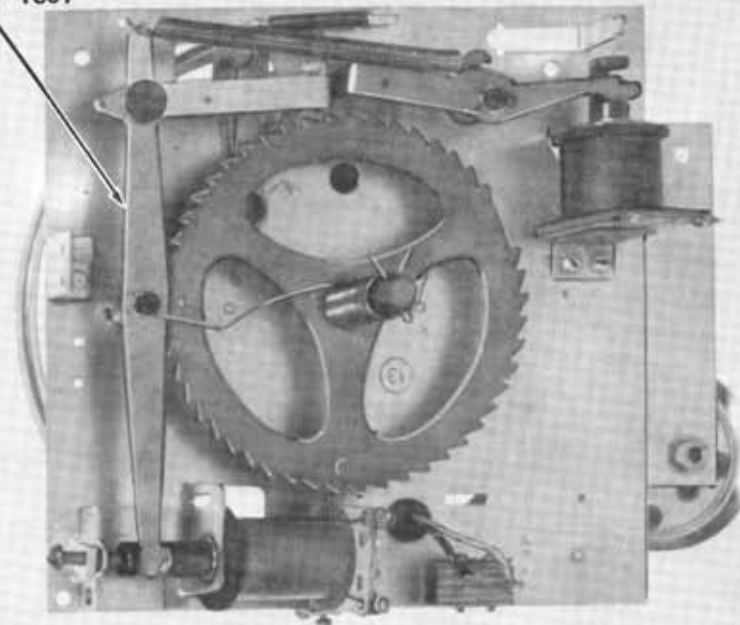
SM-3378

P-49

A-3377

AST-1832

AST-23-SU

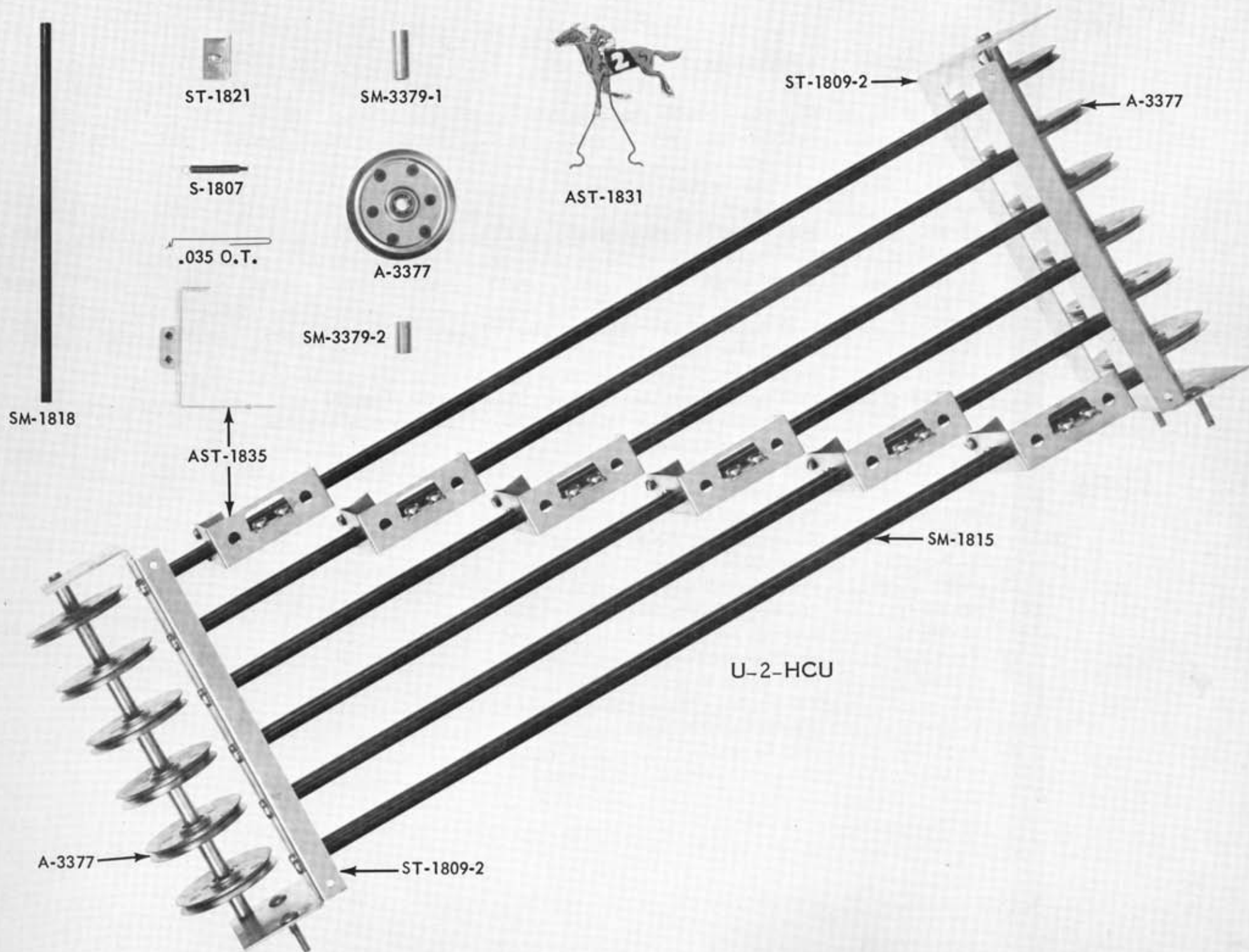


U-2-HCU

Horse
Carrier
Unit

PART NUMBER	DESCRIPTION
U-2-HCU	Horse Carrier Unit Complete
S-1807	Cable Tension Spring
ST-1809-2	Track and Pulley Support..... (6 Position)
SM-1815	Carrier Track
SM-1818	Pulley Shaft
ST-1821	Carriage Cable Clamp
AST-1831	Horse Card and Wire Assembly..... (Specify Number of Horse)
AST-1835	Horse Carriage Assembly
A-3377	Ball Bearing Pulley Assembly
SM-3379-1	Pulley Spacer
SM-3379-2	Pulley Spacer
.035 O.T.	Carrier Wire Form

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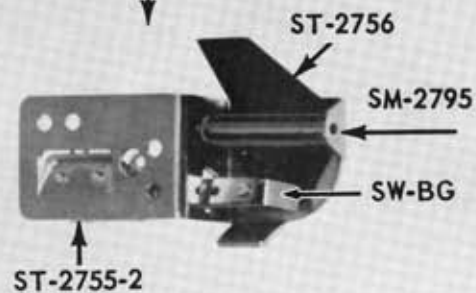
Playboard
Parts

PART NUMBER	DESCRIPTION
AST-2755-2	Ball Gate Assembly Complete
ST-2755-2	Ball Gate Brkt. Only
ST-2756	Ball Gate
SW-BG	Ball Gate Switch
SM-2795	Ball Gate Pin
ST-2692	Push Button Guide Bracket
ST-2688	Push Button Retainer
ST-2338	Illuminated Shooter Plate
ST-2754	Ball Gate Switch Cover
A-2733	Push Button & Switch Mounting Assembly
SW-PG	Push Button Switch
S-276-U	Dress Spring.....(Specify length)
ASM-2687-C	Push Button Assembly Complete.....(Specify name of button)
ASM-2687	Push Button And Shaft Assembly, (Only).....(Specify name of button)
S-2712	Push Button Spring
P-9	1/4" Hair Pin Clip
ST-3537	Push Button Retainer
ST-3536	Push Button Escutcheon Plate
A-16-AR	Rubber Rebound Assembly Complete
P-17	Rebound Rubber Only
P-16	Concave Steel Washer
SM-351-AR	Spacer - Ball Rebound.....(Not visible)
ST-353-AR	Mounting Bracket
P-1-2	Red Rebound Post
R-138-2	3/8 I.D. Off White Rubber Ring.....(Live)
R-2	3/8 I.D. White Rubber Ring.....(Dead)(Not Shown)
P-157-9	Plastic Rollover Button
P-157-10	Snap Button
P-158-SP	Yellow Sleeve Plug.....(Not shown)
M-170	Double Flag Spring.....Give length
E-316	Lite Post Cover

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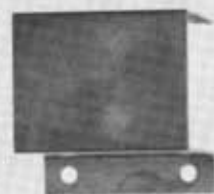
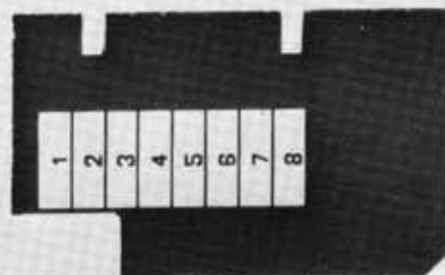


AST-2755-2



ST-2755-2

ST-2338



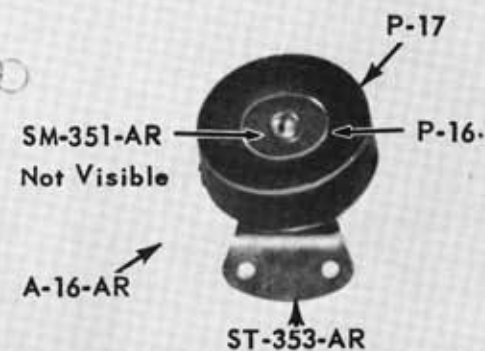
ST-2754



S-276-U



M-170



ST-353-AR



R-138-2



E-316



P-1-2



P-157-9



P-157-10



ST-2692



ST-2688

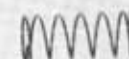


A-2733

SW-PB



ASM-2687



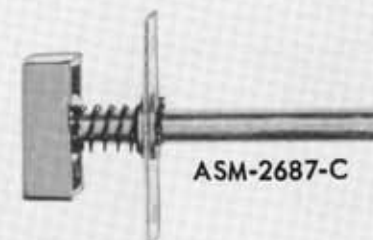
S-2712



P-9



ST-3537



ASM-2687-C



ST-3536

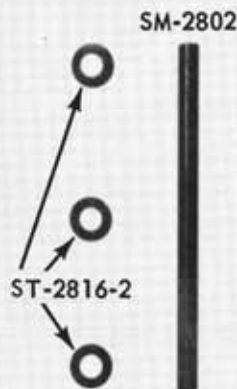
U-1-PCDU

Puck Conveyer Drive Unit & Misc. Parts

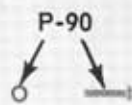
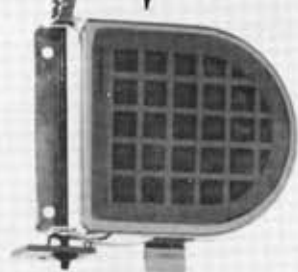
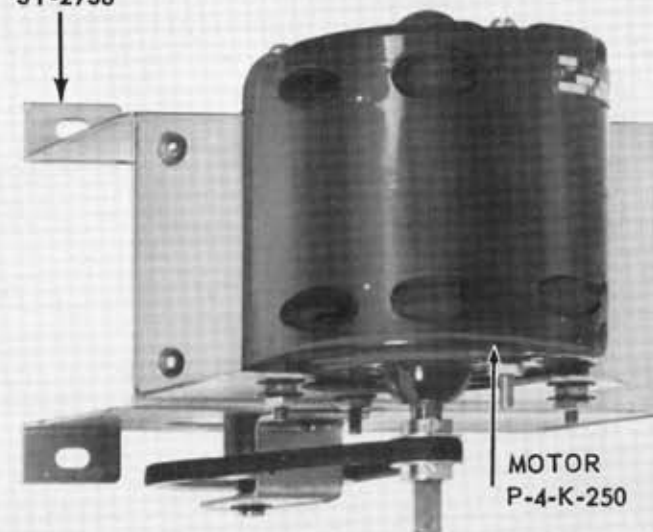
PART NUMBER	DESCRIPTION
U-1-PCDU	Puck Conveyor Drive Unit Complete
ST-2738	Drive Unit Mounting Frame
P-4-K-250	Motor
ST-2739	Motor Mounting Frame
P-2036	Rubber Grommet
AST-2744-1	Bracket - Driven Pulley
AST-2744-2	Bracket - Driven Pulley
A-2818	Drive Pulley Assembly
A-2820	Driven Pulley Assembly
ST-2741	Strap Bracket Belt Adjustment
ST-2740	Drive Shaft Bracket
SM-2802	Drive Pulley Shaft
SM-1672	Driven Pulley Shaft
SM-2801	Rubber Grommet Spacer
ST-2816-2	5/16 x 5/8 x .010 Fish Paper Washer
SW-BRLA	Belt Return Limit Switch Assembly
S-7	Compression Spring
SM-2807	Small Pulley Section
P-90	6/32 x 5/8" Round Head Machine Screw w/Lock Washer
P-0160	"V" Belt
A-2836-R	Puck Stop Assembly Rubberized
ST-3365	Curved Spring Steel Washer
SM-3360	Hinge Pin, Rotary Flap
AST-3364	Rotary Switch Contact Plate
ST-2747-1	Hinge Switch, Actuator
ST-2747-2	Hinge Switch, Actuator
P-52	1/16 Hair Pin Clip
AST-2743-C	Rotary Switch & Actuator Flap Complete
AST-2743	Actuator Flap Frame Assembly Only
ST-3361	Rotary Switch Blade Only
P-195	Actuator Flap Rubber Only
P-600-C	Canvas Conveyor Belt 2 1/2" wide, 15 1/2 ft long (Not Shown)

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U-1-PCDU



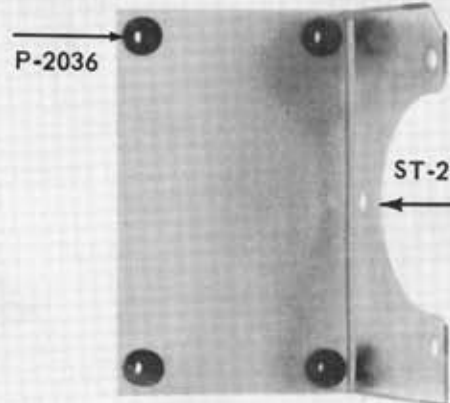
ST-2738



SM-2801



P-2036



AST-3364

SM-3360

P-52

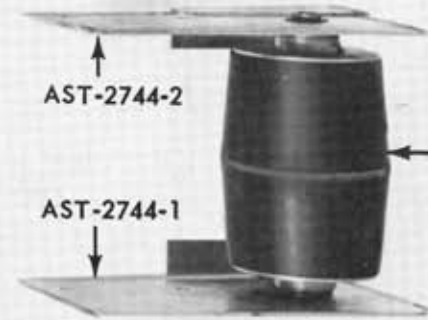


S-7

ST-2740



SM-1672



A-2820

U-1-BRU

Base
Runner
Unit

PART NUMBER	DESCRIPTION
U-1-BRU.....	Base Runner Unit Complete.....
AST-3380.....	Mounting Frame Assembly – Removable Parts not included.....
AST-3388.....	Carrier Arm Assembly w/Players & Motor Cam Assembly.....
AST-3383.....	Load Cam Assembly.....
AST-3384.....	Base Runner & Mounting Bracket Assembly.....
P-251.....	Base Runner, Figure only.....
P-252.....	Batter, Figure only.....
P-253.....	Pitcher, Figure only.....
P-254.....	Fielder, Figure only.....
AST-3387.....	Arm, Override Brake Assembly – With Roller – Not Shown.....
SM-3397.....	Override Brake Roller Only.....
SM-3396.....	Armature, Load Solenoid.....
SM-3398.....	Shaft, for Carrier Assembly.....
G-3393.....	Pinion, Motor Gear.....
S-3437-1.....	Spring, Runner Set-Up.....
S-3437-3.....	Spring, Runner Cam.....
SW-MR-BRU.....	Switch, Motor Run.....
SW-BR-BRU.....	Switch, Base Run.....
#2 Series.....	Solenoid Coil.....
A-2810.....	Solenoid Stop Bracket Assembly.....
P-10.....	6/32 x 3/16 R.H. Machine Screw.....

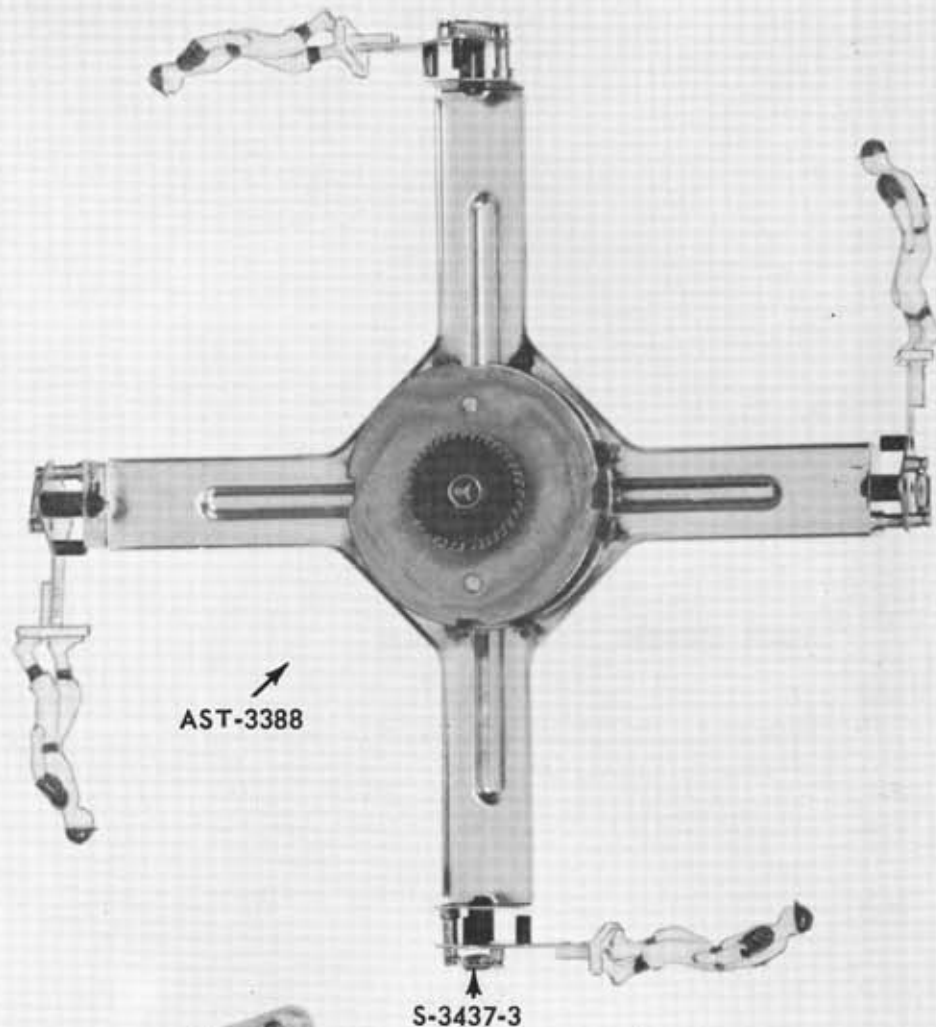
For other parts, see following page

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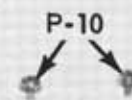


AST-3380

U-1-BRU



AST-3388



A-2810



#2 SERIES COIL



SM-3396



G-3393



AST-3387

SM-3397



SW-MR-BRU



SW-BR-BRU



S-3437-1



AST-3383



AST-3384

P-251



S-3437-3



SM-3398

U-1-BRU

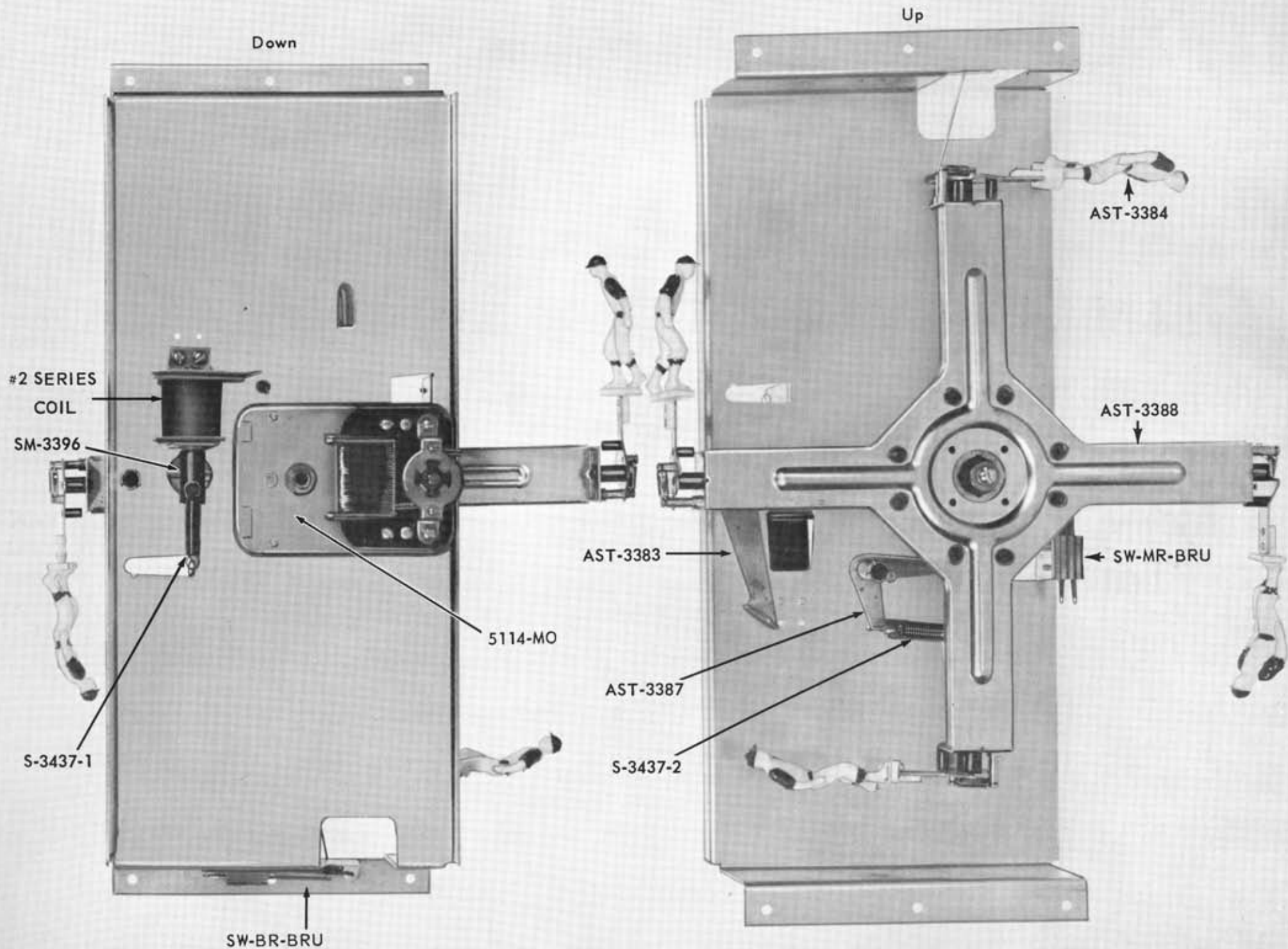
Base
Runner
Unit**PART NUMBER****DESCRIPTION**

S-3437-2	Spring, Override Brake Arm
5114-MO	Motor Must give number stamped on housing

For other parts, see preceding page

TO AVOID
DELAY
BE SURE
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PART NUMBER
WITH
DESCRIPTION
TOGETHER
WITH
NAME AND
SERIAL
NUMBER
OF GAME

U-1-BRU



U-1-PU

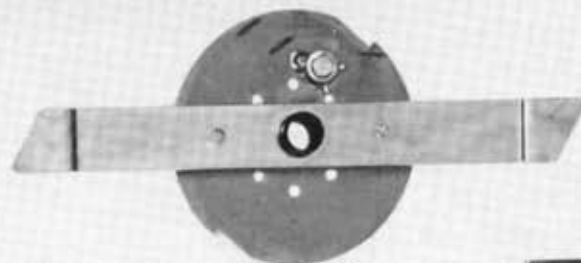
Pitching
Unit

PART NUMBER	DESCRIPTION
U-1-PU.....	Pitching Unit Complete
AST-3481	Frame Right Side - (with Frame Spacers)
ST-3482.....	Frame Left Side
ST-3483.....	Inner Ball Track
ST-3484.....	Outer Ball Track
5112-MO.....	Motor give number stamped on housing
ST-3485.....	Motor Mounting Plate
AST-3486	Latch Release Cam Assembly.....
SW-PU.....	Zero Position & Motor Run Switch
S-3509.....	Drive Spring
AST-3487	Latch Cam Assembly with Bushing and Pitch Arm Attached
AST-3489	Flexible Coupling for Motor Drive w/Hub.....
AST-3500	Latch Pawl
S-3510.....	Latch Pawl Spring
AST-3488-1.....	Latch Arm Right Side.....
AST-3488-2.....	Latch Arm Left Side
S-3-SU.....	Latch Arms Spring
SM-3539	Bat Shaft Nut
P-8	3/16" Hair Pin Clip.....
P-51	5/16" Hair Pin Clip.....
P-158.....	5/16" Internal Lock Washer.....
NSM-30-SU	Latch Pawl Post
SM-3497-2	Latch Arm Pivot Post
SM-3494	Spindle for Pitch Arm.....
S-3660.....	Retainer Clip Hair Pin
P-72.....	10-32 Hex Nut
P-151.....	#10 Internal Lock Washer
P-2	1/4 x 28 Hex Nut and Lock Washer.....
P-404.....	3/8 I.D. x 1/2 O.D. x 1/64 Thick Washer
SM-3658	Detent Pin

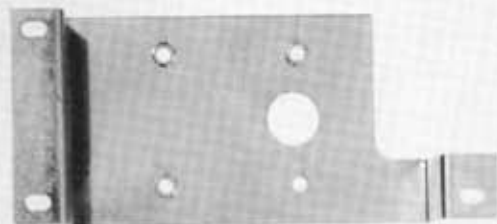
TO AVOID
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OF GAME

S-3660

SM-3658



AST-3487



ST-3485

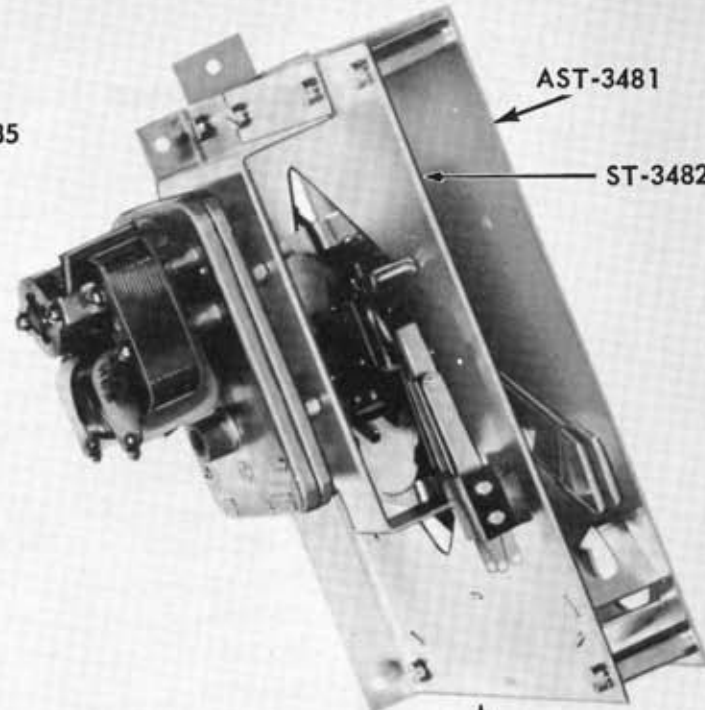


AST-3489

ST-3485



5112-MO



AST-3481

ST-3482

P-72

P-151

NSM-30-SU

P-8



AST-3500

S-3510



AST-3486

P-2

SM-3497-2

P-51



AST-3488-1

S-3-SU



AST-3488-2

P-2

SW-PU

SW-PU

S-3509

S-3509

P-51

P-404

SM-3494

P-158

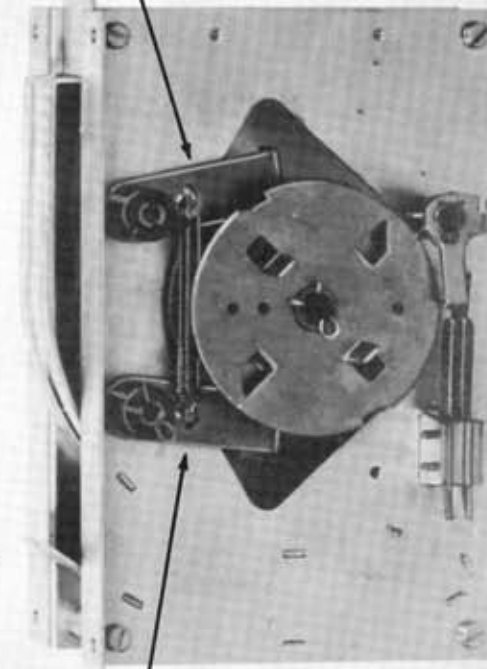
SM-3539

ST-3484

ST-3483

AST-3488-1

U-1-PU



AST-3488-2

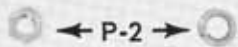
U-1-BU

Batting Unit
& Baseball
Replacement
Parts

PART NUMBER	DESCRIPTION
U-1-BU.....	Batting Unit Complete *
AST-3462.....	Mounting frame - Assembly Only *
AST-3463.....	Drive Link and Armature Assembly *
#7 Series.....	Solenoid Coil
AST-1828-4.....	Solenoid Stop Assembly.....
P-285	3/32 x 5/8 Spring Pin for Batting Arm
ST-3466.....	Batting Arm.....
SW - BU.....	Bat Coil, End of Stroke Switch
AST-3464.....	Drive Arm Assembly *
P-9	1/4" Hair Pin Clip *
P-192	Rubber - Silent Stop For Drive Arm - 5/16 x 3/4 x 7/8 Long
P-51	5/16" Hair Pin Clip.....
ST-3465.....	Drive Crank *
SM-3497-1	Pivot Post
S-3437-2	Drive Arm Spring
P-2	1/4" x 28 - Nut and Lock Washer.....
P-3518	Light Reflector Plastic
SM-3497-2	Pivot Post
SM-3539.....	Hex Nut - 7/16 - 28.....
P-405.....	7/16 x 5/8 x 1/64, Brass Anti Friction Washer
A-515-3	Oillite Bearings *
SM-3498.....	Bat Shaft *
ST-3453.....	Ball Ramp.....
ST-3454	Pitcher Cover
SM-3456.....	Playboard Stud.....
SM-3515.....	Push Button Bushing.....
S-3526.....	Push Button Spring.....
SM-3514.....	Push Button (Pitcher)
S-7.....	Push Button Spring.....
A-3513	Bat - Push Button Assembly.....
P-4092	Hard Rubber Molding - Grand Stand Protection.....
SM-3504.....	Drive Crank Roller.....
SM-3507	Stud - Drive Roller.....
P-72	10-32 Steel Hex Nut
P-191.....	Flat Rubber Tube for Batting Arm 3" Long.....

* On late model games, these parts have been improved

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ST-3465

SM-3504

P-72

SM-3507

S-3437-2

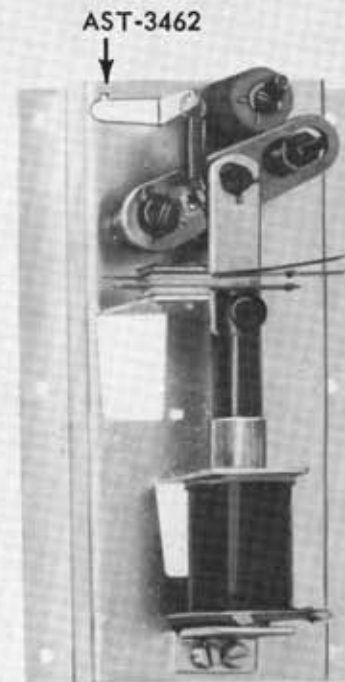


AST-3464



SW-BU

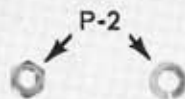
AST-3463



AST-3462



P-3518

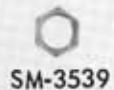
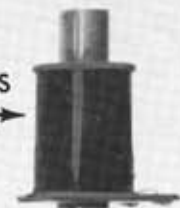


SM-3497-2



P-51

#7 SERIES
COIL →



SM-3539



P-405



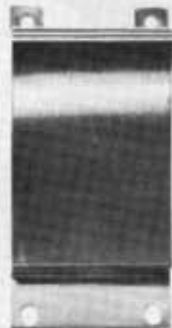
A-515-3



SM-3498



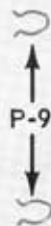
AST-1828-4



ST-3453



ST-3554



P-9



SM-3515



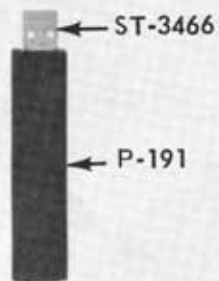
S-3526



SM-3514

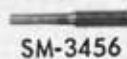


P-285



ST-3466

P-191



SM-3456



S-7



A-3513

U-1-BU



P-4092

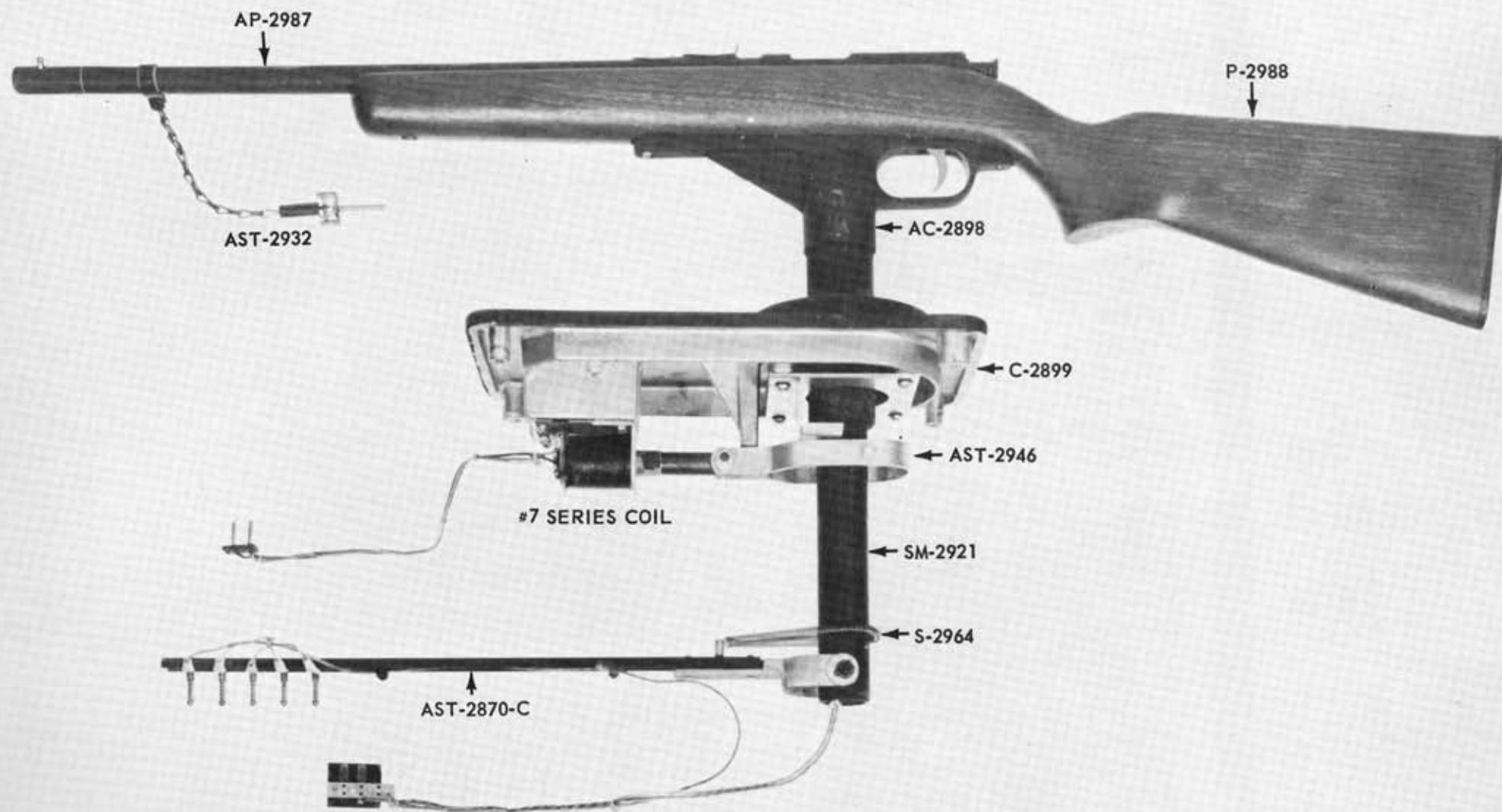
U-1-GU

Gun
& Gun
Replacement
Parts

PART NUMBER	DESCRIPTION
U-1-GU	Gun Unit Complete
P-2988	Gun Stock - Only
AP-2987	Gun Barrel Assembly Complete with Retaining Chain — Give Overall Length
AST-2932	Gun Barrel Retaining Chain With Clamp & Bracket Complete
AC-2898	Trigger Housing Casting Assembly Complete
#7 Series	Solenoid Coil
AST-2870-C	Scanning Arm Assembly Complete With Cable
S-2964	Clevis Spring
SM-2921	Support Tube Only
AST-2946	Yoke For Recoil Mechanism
C-2899	Gun Mounting Casting Only

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U-1-GU



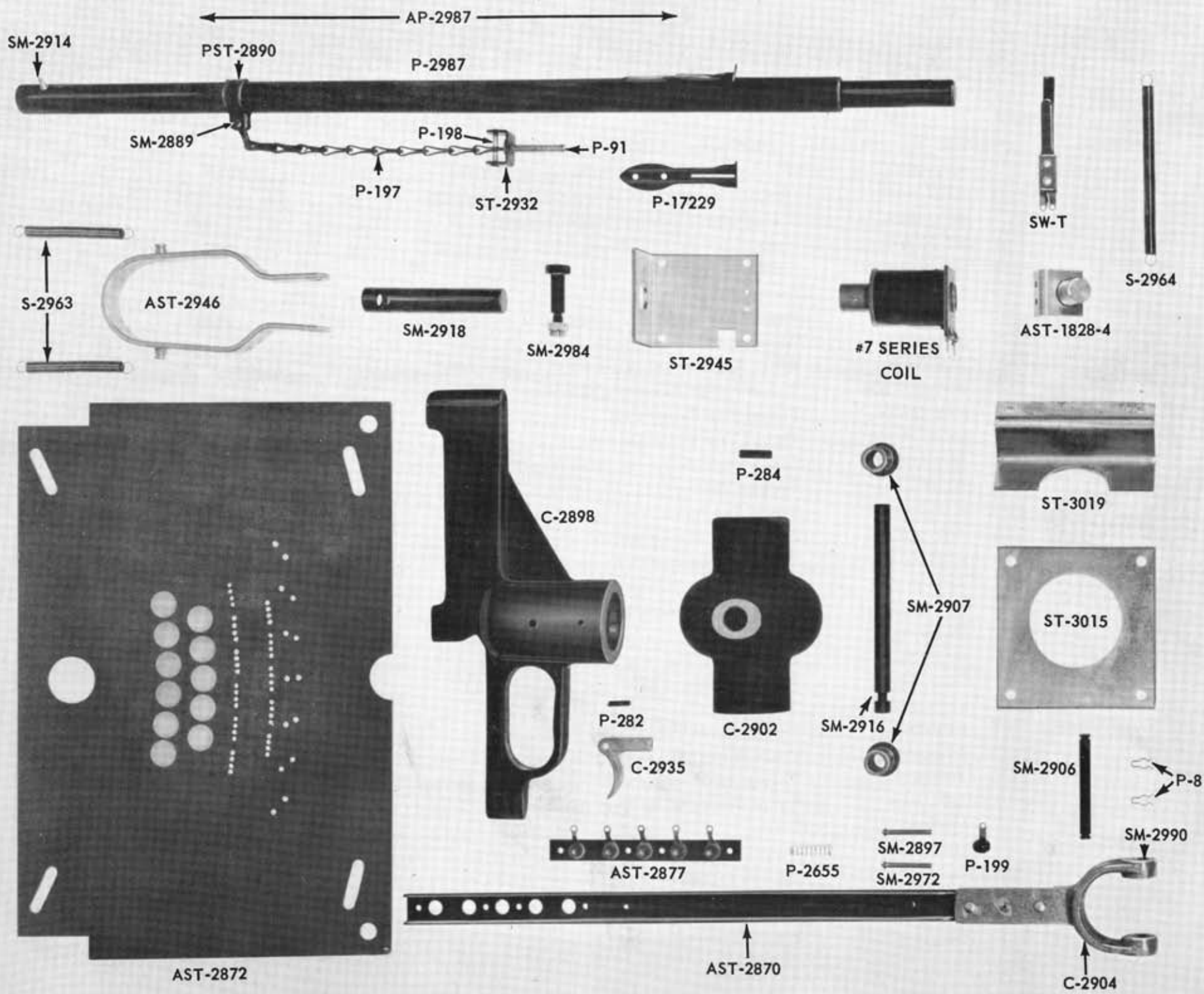
SECTION 23b

GRP

Gun
Replacement
Parts

PART NUMBER	DESCRIPTION
AP-2987.....	Gun Barrel Assembly Complete with Retaining Chain — Give Overall Length
P-2987	Gun Barrel Only
SM-2914	Front Sight
PST-2890	Chain Clamp.....
SM-2889	Shoulder Rivet - Gun Chain Clamp
P-197.....	Chain 6" Long.....
P-198	1/8 x 25/32 Steel Rivet
ST-2932	Bracket - Gun Retaining Chain
P-91.....	10/24 x 1-1/4 Carriage Bolt
P-17229	Rear Sight With Screws.....
SW-T.....	Trigger Switch
S-2964.....	Clevis Spring.....
S-2963	Recoil Yoke Springs.....
AST-2946	Recoil Yoke
SM-2918	Recoil Solenoid Armature
SM-2984.....	Yoke Shoulder Screw with Flex Nut
ST-2945.....	Coil Bracket - Recoil Mechanism
P-284	3/16 x 3/4 Spring Pin
#7 Series	Solenoid Coil
AST-1828-4	Solenoid Stop Bracket Assembly
ST-3019	Bracket - Gun Stop
AST-2872	Commutator Plate Assembly.....
C-2898	Trigger Housing
P-282	1/8 x 1/2 Spring Pin
C-2935	Trigger
C-2902	Pivot Housing.....
SM-2916	Pivot Housing Shaft
SM-2907.....	Pivot Housing Bushings
ST-3015	Plate - Gun Stop
AST-2877	Contact Mounting Strip Assembly
P-2655	Contactor Spring
SM-2897	Contact - Moving Target (Round Point)
SM-2972	Contact - Target
P-199	Terminal Lug With Rubber Grommet
SM-2906.....	Clevis Pin
P-8.....	3/16 Hair Pin Clip
AST-2870	Scanning Arm Assembly With Clevis & Bushings
ST-2870	Scanning Arm Only
C-2904	Clevis Only
SM-2990.....	Clevis Bushing Only.....

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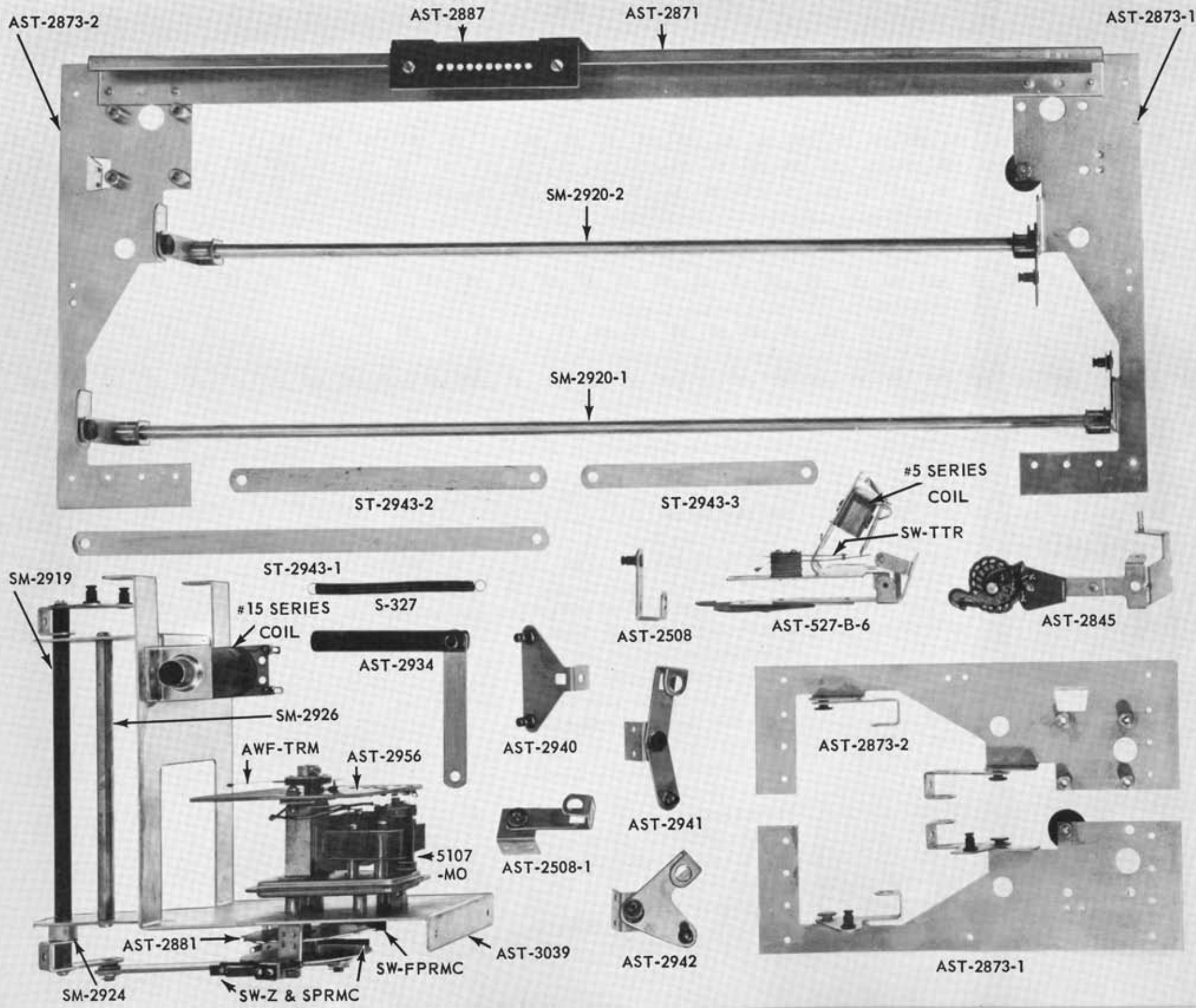


SECTION 23c

Gun Game Replacement Parts

PART NUMBER	DESCRIPTION
AST-2871.....	Guide Channel Assembly
AST-2873-1	Channel Mounting Plate Assembly - Right Side
AST-2873-2	Channel Mounting Plate Assembly - Left Side
AST-2887.....	Commutator - Moving Target Assembly
SM-2920-2.....	Reset Bar- 21 3/4" Long.....
SM-2920-1	Reset Bar - 25 3/8" Long.....
ST-2943-2.....	Drive Link
ST-2943-3.....	Reset Link
ST-2943-1	Reset Link
AST-2508	Reset Arm Assembly
AST-527-B-6.....	Target Relay Assembly Complete
#X5 Series	Target Trip Relay Coil
SW-TTR	Target Trip Relay Switch
AST-2845	Support Arm & Target Assembly (Specify Target)
S-327	Tension Spring
AST-2940	Crank Arm Assembly
AST-2941	Arm Reset Bar Assembly
AST-2934	Solenoid Armature & Reset Arm Assembly
AST-2508-1	Reset Arm & Bracket Assembly
AST-2942	Reset Arm & Bracket Assembly
SM-2919	Crank Shaft
SM-2926	Spacer Bar
SM-2924	Spacer Bushing
#15 Series	Solenoid Coil
AWF-TRM.....	Target Reset Motor Wiper Finger Assembly
AST-2956	Target Reset Motor Contact Disc.....
AST-3039	Target Reset Motor Mounting Plate Assembly
AST-2881	Target Reset Motor Cam Assembly
5107-MO	Motor
SW-FPRMC	First Position Reset Motor Cam Switch
SW-Z & SPRMC	Zero & Second Position Reset Motor Cam Switch

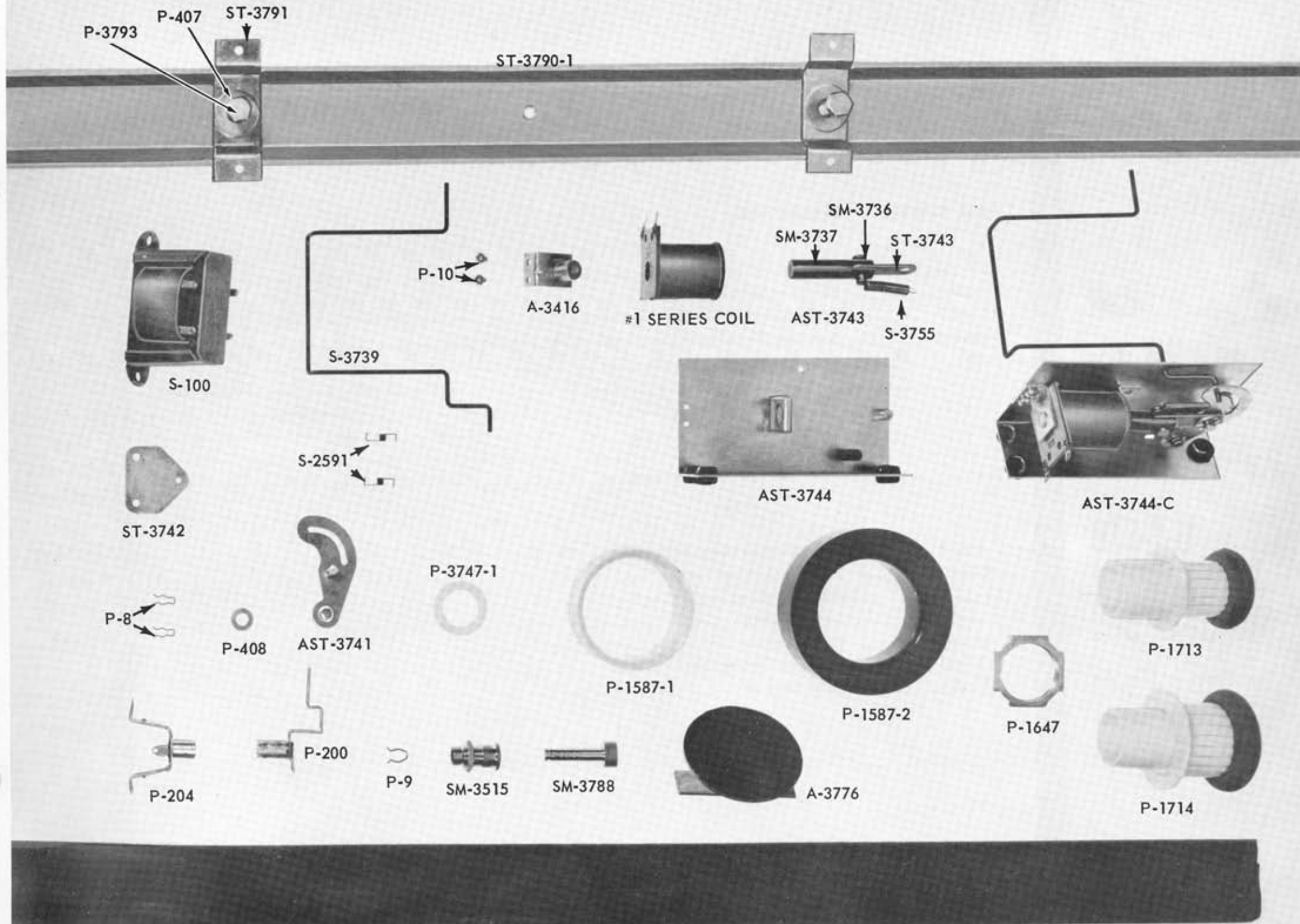
TO AVOID
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Pool Table Replacement Parts

PART NUMBER	DESCRIPTION
ST-3791	Table Support Bracket
ST-3742	Hinge Plate Gate
AST-3743	Gate Drive Link & Armature Assembly Complete
SM-3737	Armature, Gate Solenoid
SM-3736	Drive Pin, Armature
ST-3743	Drive Link, Gate
AST-3744	Ball Gate Frame Assembly Only
AST-3744-C	Ball Gate Unit Complete
AST-3741	Latch Link Gate Assembly
A-3416	Solenoid Stop Assembly
A-3776	Center Hole Cover Assembly
S-100	115 V to 6 Volt Transformer
S-3739	Gate Wire Form
S-3755	Gate Armature Spring
S-2591	Spring Type Retainer
SM-3515	Push Button Bushing with Nut
SM-3788	Ball Rest Button
P-3793	Adjusting Screw Table Top 5/16 - 18 x 1½
P-8	3/16 Hair Pin Clip
P-3747-1	Plastic Tee
P-1587-1	Small Hole Liner (white, green & red)
P-1587-2	Large Hole Liner (red & white)
P-1713	Bumper Assembly (red & white)
P-1714	Bumper Assembly Jumbo (red & white)
P-1647	Metal Nut for Bumper Assembly (1" Pipe Jam Nut)
P-10	6-32 x 3/16 Round Head Machine Screw
P-9	1/4" Hair Pin Clip
P-200	Light Socket
P-204	Bumper Light Socket
P-205	Cushion Rails (Give overall length)
P-407	3/8 x 1 x 1/16 Steel Washer
P-408	1/4 x 1/2 x 1/32 Steel Washer
#1 Series	Solenoid Coil
ST-3790-1	Channel Pool Table Top 48" long
ST-3790-2	Channel Pool Table Top 66" long (Not Shown)

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Ball
Ejector
Parts

U-1-STB

Standard Bell
and Parts

PART NUMBER	DESCRIPTION
AST-4966	Ball ejector arm assembly complete
ST-4966	Ball ejector arm only
ST-4927	Ball ejector arm guide bracket
ASM-4937	Ball ejector solenoid armature and tip assembly
P-281	3/16" x 1/2" spring pin
ST-4973	Ball ejector base plate
ST-4925	Solenoid Base bracket
ST-8-SU-3	Solenoid stop bracket
#14-Series	Solenoid coil
P-481	Grommet type rubber bumper
U-1-STB	Standard bell assembly complete (not shown)
ST-3029	Bell bracket and grommet
ST-248-BR	Bell and grommet (4" Dia.)
C-Series	Solenoid coil
ASM-3032	Bell armature with nylon tip assembly
ST-8-SU-3	Solenoid stop bracket
SM-5309	Shoulder screw
AST-5242-2	Play-mate switch mounting bracket and wire form assembly less switch

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AST-4966

P-281

ASM-4937

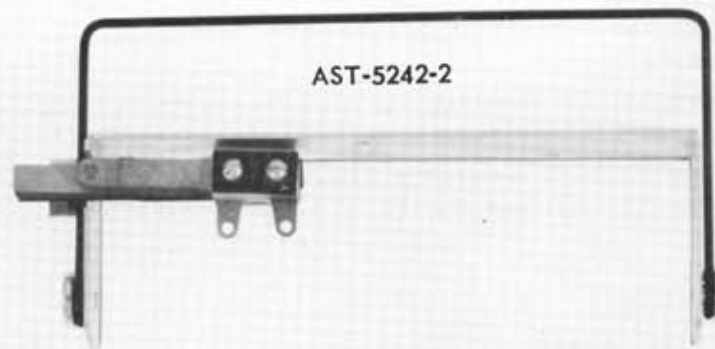
ST-4927

ST-4966

ST-4973



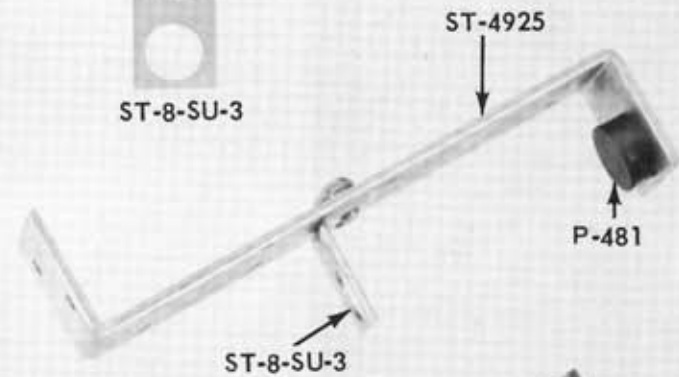
ST-248-BR



AST-5242-2



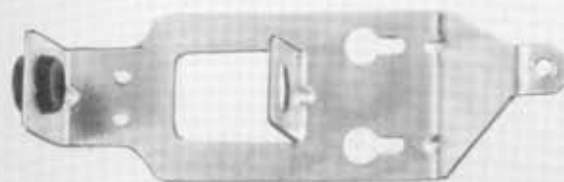
ST-8-SU-3



ST-4925

P-481

ST-8-SU-3



ST-3029



SM-5309



C-SERIES
COIL



ASM-3032



#14-SERIES COIL

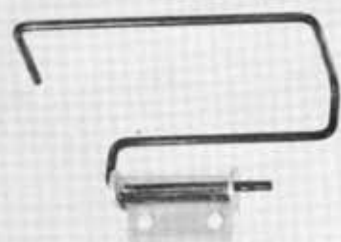
Wire
Forms

PART NUMBER	DESCRIPTION
AS-4249-1	2 5/8" Wide wire form and mounting bracket assembly.....
AS-4249-8	2 1/4" Wide wire form and mounting bracket assembly.....
AS-4249-2	1 7/8" Wide wire form and mounting bracket assembly.....
AS-4249-3	1 1/2" Wide wire form and mounting bracket assembly.....
AS-4249-4	1 1/4" Wide wire form and mounting bracket assembly.....
AS-4249-6	1" Wide wire form and mounting bracket assembly.....
AS-4249-7	3/4" Wide wire form and mounting bracket assembly.....
AS-4249-5	9/16" Wide wire form and mounting bracket assembly.....
AS-1598-L	Left wire form and mounting bracket assembly
AS-1598-R	Right wire form and mounting bracket assembly
AS-4577-L	Left wire form and mounting bracket assembly
AS-4577-R	Right wire form and mounting bracket assembly
AS-5045-L	1 3/4" Wide wire form and mounting bracket assembly.....
AS-5045-R	1 3/4" Wide wire form and mounting bracket assembly.....
AS-5044-L	Left wire form and mounting bracket assembly
AS-5044-R	Right wire form and mounting bracket assembly
AS-4534	Wire form and mounting bracket assembly
AP-4896	Wire form and mounting bracket assembly
S-2591	Spring type retainer
S-2515	Wire form (5 1/4" center of eye to center of form)
S-2517-3	Wire form (7" center of eye to center of form)
S-2516-2	Wire form (10 1/2" center of eye to center of form)
S-2517-2	Wire form (15 3/4" center of eye to center of form)

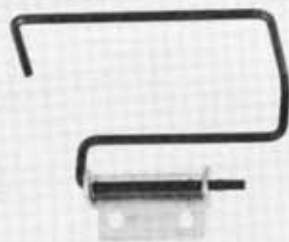
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The above wire forms, roll overs and switch actuators are typical of many more available.

When ordering specify number and description, purpose used for, name and serial number of game.



AS-4249-1



AS-4249-8



AS-4249-2



AS-4249-3



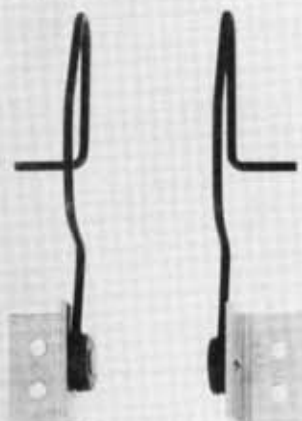
AS-4249-4



AS-4249-6



AS-4249-7



AS-1598-L

AS-1598-R



AS-4577-L

AS-4577-R



AS-5045-L

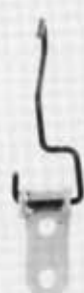
AS-5045-R



AS-5044-L



AS-5044-R



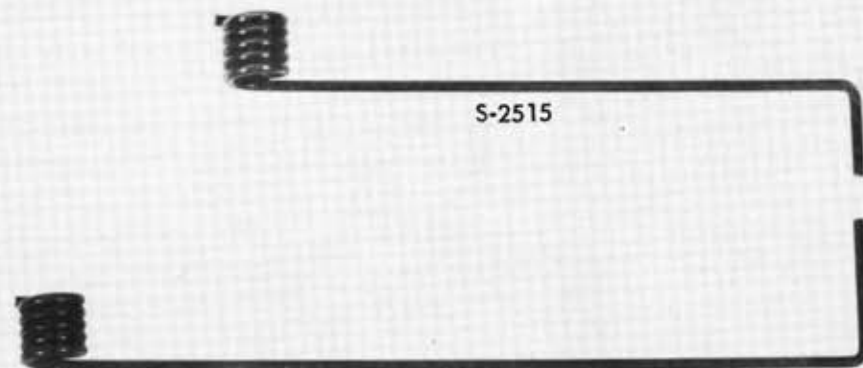
AS-4534



AP-4896



AS-4249-5

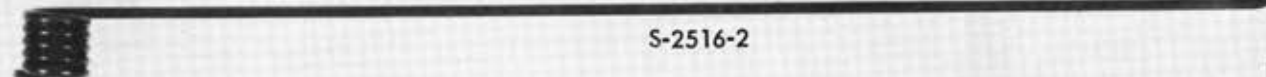


S-2515

S-2517-3



S-2591



S-2516-2



S-2517-2

Coils

PART NUMBER	DESCRIPTION
K-Series	Solenoid coil
K-Series	Solenoid coil (double winding—3 lugs) not shown
#15-Series	Solenoid coil
#7-Series	Solenoid coil
A-Series	Solenoid coil
#14-Series	Solenoid coil
#3-Series	Solenoid coil
#12-Series	Solenoid coil
#1-Series	Solenoid coil
C-Series	Solenoid coil
#2-Series	Solenoid coil
#6-Series	Relay coil (with copper slug)
#17-Series	Relay coil (with copper slug)
#4-Series	Relay coil (with copper slug)
#9-Series	Relay coil (with copper slug)
#16-Series	Relay coil (with copper slug)
X5-Series	Relay coil
#13-Series	Relay coil
#5-Series	Relay coil

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The coils, series number and letters shown are typical and should only be a guide.

When ordering, specify numbers stamped on coil, unit used on, label marking or description, name and serial number of game.



K-SERIES



#15-SERIES



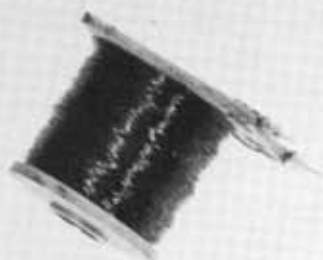
#7-SERIES



A-SERIES



#14-SERIES



#3-SERIES



#12-SERIES



#1-SERIES



C-SERIES



#2-SERIES



#6-SERIES



#17-SERIES



#4-SERIES



#9-SERIES



#16-SERIES



X5-SERIES



#13-SERIES



#5-SERIES

Switch
Assemblies

PART NUMBER DESCRIPTION

CODE

1.....	Long.....	2 leaf blue steel type cam follower switch "A" dimension 1 11/16" centers
2.....	Long.....	4 leaf blue steel type cam follower switch "A" dimension 1 9/16" centers
3.....	Long.....	4 leaf blue steel type cam follower switch "A" dimension 1 5/8" centers
4.....	Long.....	2 leaf blue steel type cam follower switch "A" dimension 1 25/32" to form.....
5.....	Long.....	6 leaf extended type cam follower switch "A" dimension 1 9/16" centers
6.....	Long.....	2 leaf switch with lifter.....
7.....	Standard.....	2 leaf roller type cam follower switch "A" dimension 1 25/32" centers
8.....	Standard.....	2 leaf roller type cam follower switch "A" dimension 1 5/32" centers
9.....	Standard.....	2 leaf "V" type cam follower switch "A" dimension 1 11/32" centers
10.....	Standard.....	7 leaf extended type cam follower switch "A" dimension 1 3/16" centers
11.....	Standard.....	4 leaf extended type cam follower switch "A" dimension 1 15/32" centers.....
12.....	Standard.....	2 leaf simple type cam follower switch "A" dimension 1 15/32" centers.....
13.....	Standard.....	2 leaf formed leaf switch "A" dimension 1 15/32" to form.....
14.....	Standard.....	6 leaf relay actuated switch.....
15.....	Standard.....	9 leaf relay actuated switch.....
16.....	Standard.....	2 leaf tilt switch
17.....	Standard.....	4 leaf relay actuated switch
18.....	Standard.....	2 leaf relay actuated switch
19.....	Small.....	4 leaf lever actuated switch
20.....	Small.....	7 leaf relay actuated switch
21.....	Small.....	7 leaf relay actuated switch
22.....	Small.....	4 leaf relay actuated switch
23.....	Small.....	4 leaf relay actuated switch
24.....	Small.....	2 leaf relay actuated switch

NOTE: See following pages of switch parts for how to measure "A" dimension if necessary:

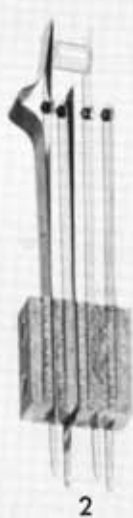
The switch assemblies shown are for the purpose of reference and as a guide only.

When ordering, give label marking, description, type, name of unit used on, name and serial number of game.

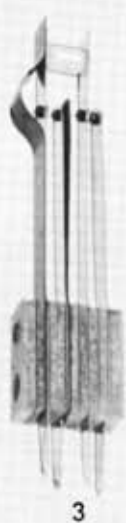
TO AVOID
DELAY
BE SURE
TO GIVE
PART NUMBER
WITH
DESCRIPTION
TOGETHER
WITH
NAME AND
SERIAL
NUMBER
OF GAME



1



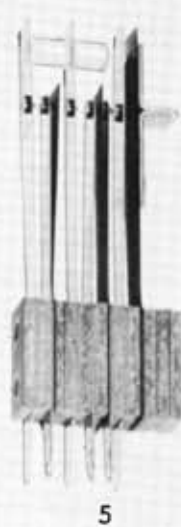
2



3



4



5



6



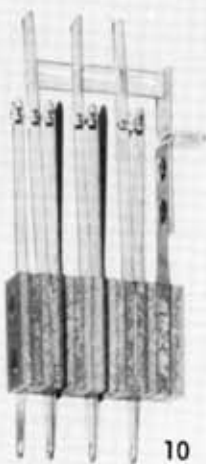
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8



9



10



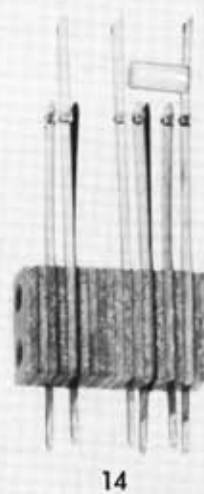
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12



13



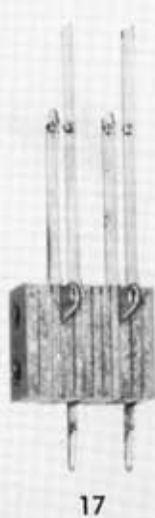
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15



16



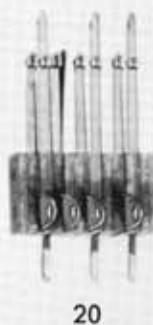
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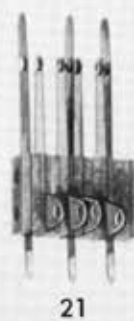
18



19



20



21



22



23



24

Switch
Parts

PART NUMBER DESCRIPTION

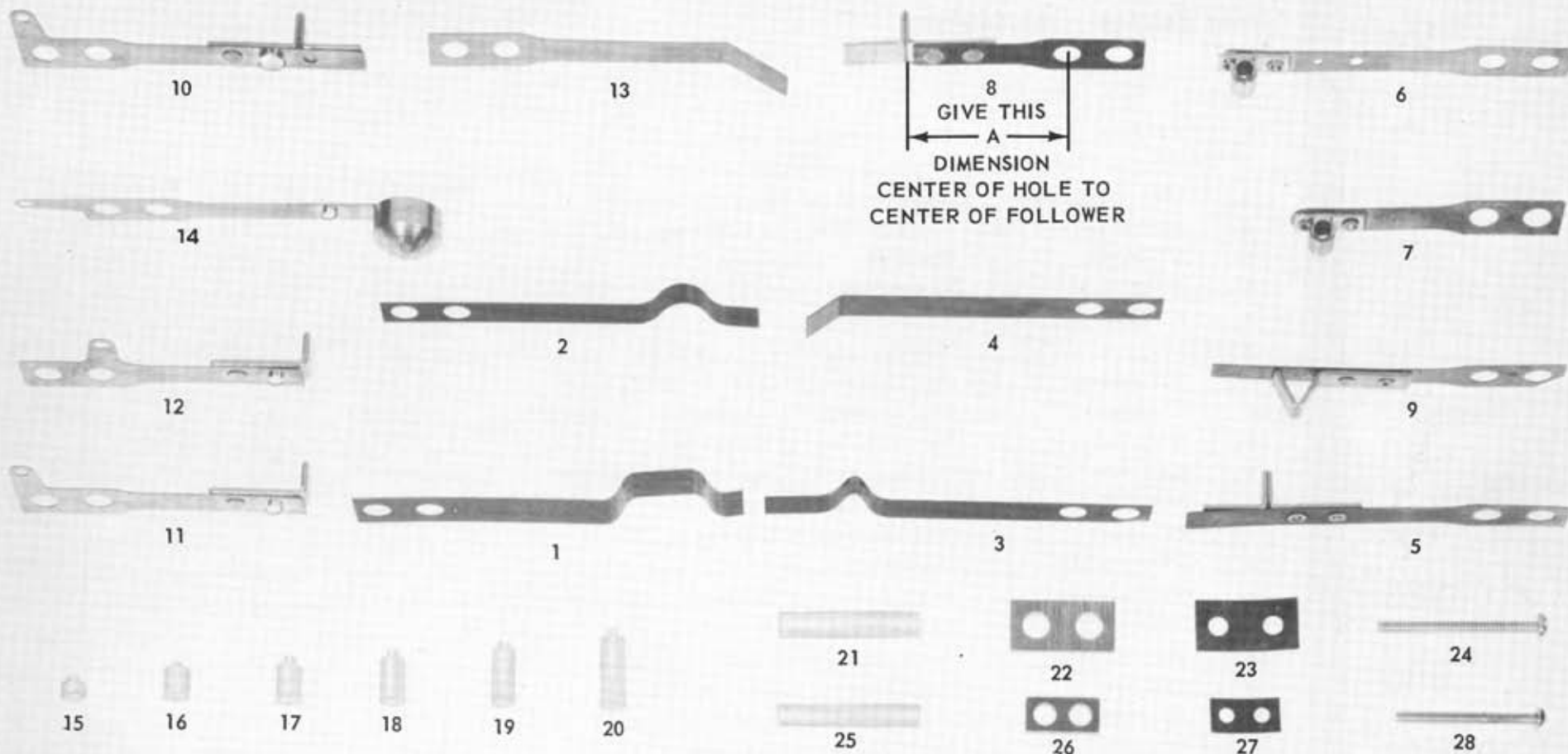
CODE

1	ST-3076	Blue steel cam follower "A" dimension 1 11/16" centers
2	ST-3078	Blue steel cam follower "A" dimension 1 5/8" centers
3	ST-3077	Blue steel cam follower "A" dimension 1 9/16" centers
4	ST-3079	Blue steel cam follower "A" dimension 1 25/32" to form
5	ST-3064-BC-E	Extended type cam follower "A" dimension 1 9/16" centers
6	ST-3233-L-PHB	Roller type cam follower "A" dimension 1 25/32" centers
7	ST-3233-S-PHB	Roller type cam follower "A" dimension 1 5/32" centers
8	ST-3000-BC-E	Extended type cam follower "A" dimension 1 3/16" centers
9	NST-377-C-1-BC	"V" type cam follower "A" dimension 1 11/32" centers
10	ST-2604-PHB-E	Extended type cam follower "A" dimension 1 15/32" centers with "A" contact
11	ST-2604-PHB-S	Simple type cam follower "A" dimension 1 15/32" centers with "B" contact
12	ST-2618-PHB-S	Simple type cam follower "A" dimension 1 15/32" centers with "B" contact
13	ST-3064-PHB-F	Formed phosphor bronze leaf "A" dimension 1 19/32" to form
14		Tilt switch leaf with "B" contact and weight
15		3/32" Nylon lifter
16		3/16" Nylon lifter
17		1/4" Nylon lifter
18		5/16" Nylon lifter
19		3/8" Nylon lifter
20		1/2" Nylon lifter
21	P-24	Switch tubing 3/16" diameter (for standard and long leaf switches) give length
	ST-420-C-1	Insulating switch spacer 1/32" thick (not shown)
22	ST-420-C	Insulating switch spacer 1/16" thick
	ST-418-C	Insulating switch spacer 3/32" thick (not shown)
	ST-419-C	Grounding switch spacer .050" thick (not shown)
23	ST-2609	Switch spring tensioner
24	P-4	4/36" Round head machine screw (give length)
25	P-54	Switch tubing 5/32" diameter (for small switches) give length
	ST-2554-1	Insulating switch spacer 1/32" thick (not shown)
26	ST-2554	Insulating switch spacer 1/16" thick
27	ST-2560	Switch spring tensioner
28	P-97	3/48" Round head machine screw (give length)
29		For illustration only — see note below

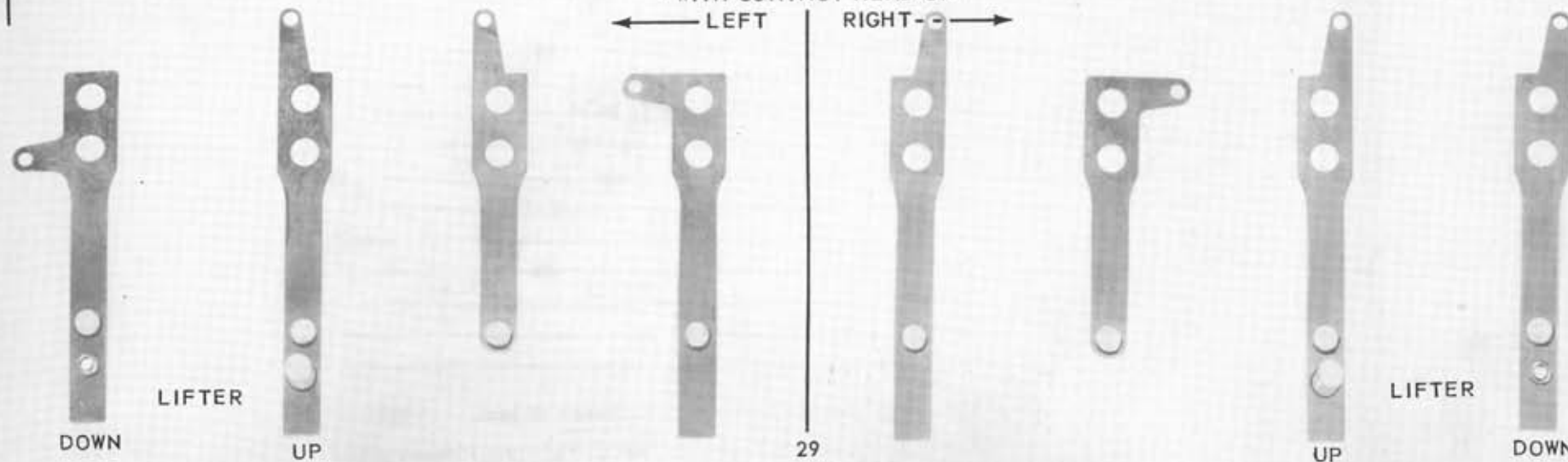
When ordering switch leaves assembled, specify left or right, type and thickness of leaf, type of contact, size of lifter — Lifter up or down.

See outlined section on lower part of photograph

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FOR IDENTIFICATION ONLY WHEN ORDERING SWITCH LEAVES ASSEMBLED
"WITH CONTACT HEAD UP"



Switch
Leaves
and
Contacts

PART NUMBER DESCRIPTION

CODE

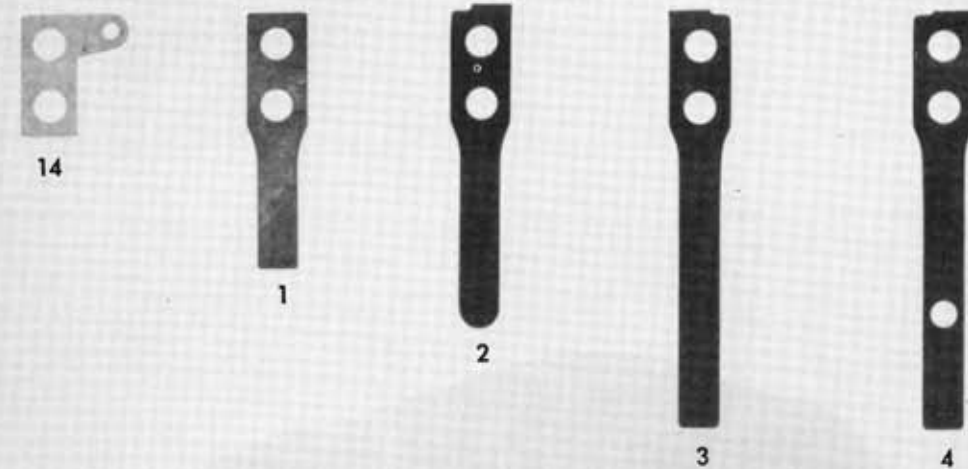
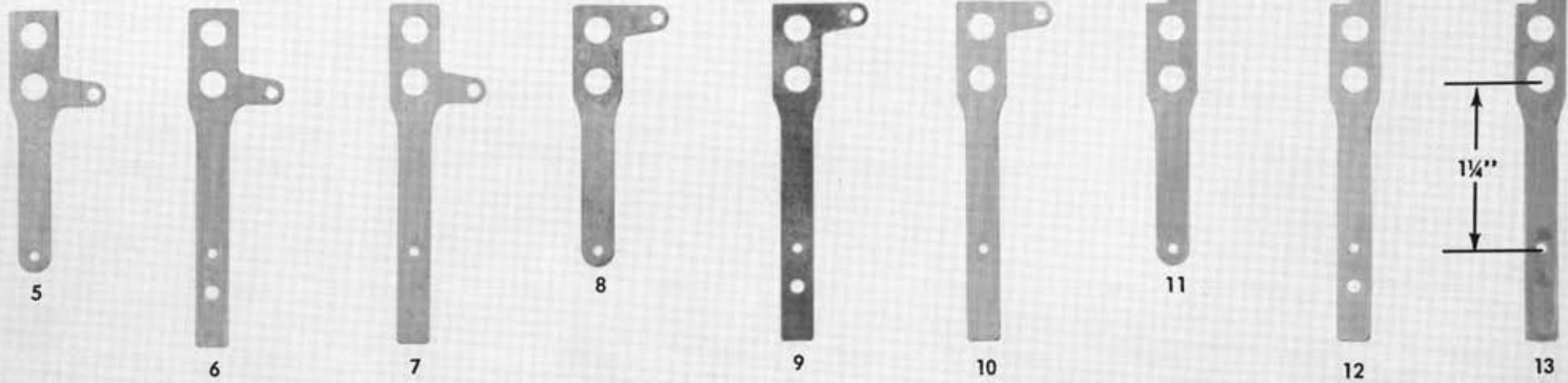
1.....	ST-2706.....	Standard-back-up leaf.....
2.....	ST-378-ST-FP.....	Standard-fish paper insulator.....
3.....	NST-377-C-1-FP.....	Standard-blank fish paper insulator.....
4.....	NST-377-C-1-FPH.....	Standard-Hole fish paper insulator.....
5.....	ST-2605.....	Standard-side lug switch leaf.....
6.....	ST-2618-2H.....	Standard-side lug switch leaf (2 hole).....
7.....	ST-2618-1H.....	Standard-side lug switch leaf (1 hole).....
8.....	ST-2619.....	Standard-side lug switch leaf.....
9.....	ST-2604-2H.....	Standard-side lug switch leaf (2 hole).....
10.....	ST-2604-1H.....	Standard-side lug switch leaf (1 hole).....
11.....	ST-378-ST.....	Standard-End lug switch leaf.....
12.....	NST-377-C-1-2H.....	Standard-End lug switch leaf (2 hole).....
13.....	NST-377-C-1-1H.....	Standard-End lug switch leaf (1 hole).....
14.....	ST-421-C.....	Standard-Dummy side lug.....
15.....	ST-2552-BU.....	Small-back-up leaf.....
16.....	ST-2552-FP.....	Small-fish paper insulator.....
17.....	ST-2551-NL.....	Small-no lug switch leaf.....
18.....	ST-3031-DSL.....	Small-dummy side lug.....
19.....	ST-3031.....	Small-side lug switch leaf.....
20.....	ST-3030-2H.....	Small-side lug switch leaf (2 hole).....
21.....	ST-2552.....	Small-end lug switch leaf.....
22.....	ST-2551-1H.....	Small-end lug switch leaf (1 hole).....
23.....	ST-2551-2H.....	Small-end lug switch leaf (2 hole).....
24.....	ST-3065.....	Long-end lug cam switch leaf.....
25.....	ST-3064-FP.....	Long-Blank fish paper insulator.....
26.....	ST-3064-2H.....	Long-end lug cam switch leaf (2 hole).....
27.....	ST-3064-1H.....	Long-end lug cam switch leaf (1 hole).....
28.....	Type A.....	Contact.....
	Type B.....	Contact.....
	Type C.....	Contact.....
	Type D.....	Contact.....
	Type E.....	Contact.....
	Type F.....	Contact.....
	Type G.....	Contact.....
	Type H.....	Contact.....

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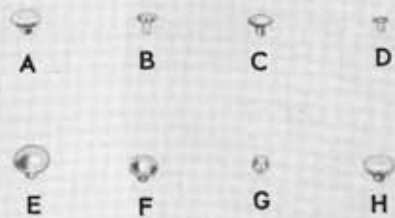
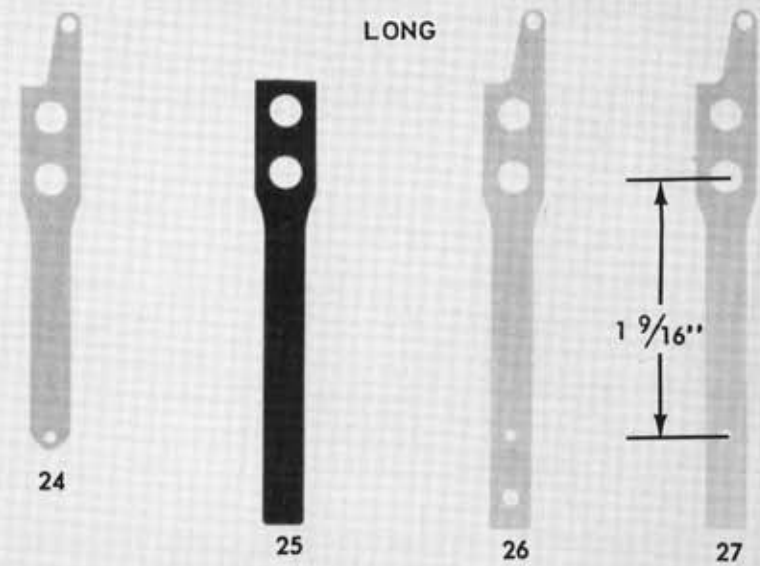
When ordering, give type and thickness of leaf.

For identification of standard, small and long leaves, see illustration.

STANDARD



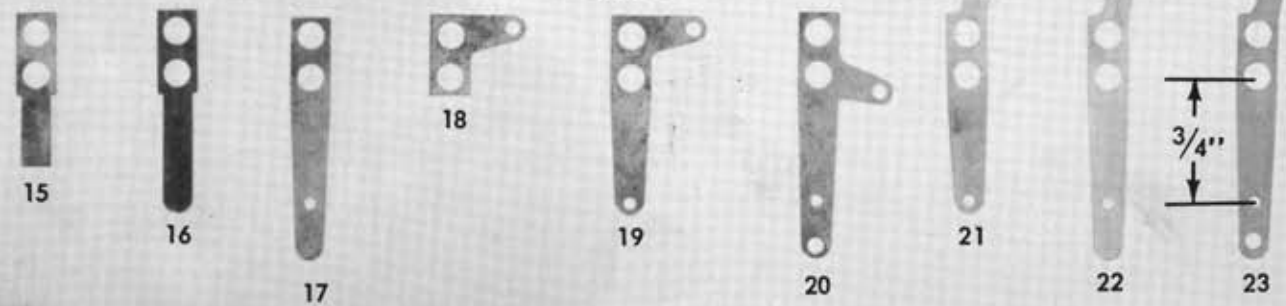
LONG



TYPES OF CONTACTS

28

SMALL



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