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Specialties Inc. Catalog 2000

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Pinballs



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Rubber Ring Kits



The best way to make your machine look and play like new!

\$13.95 - Single playfield games \$17.95 · Double playfield / wide body games page 14

Novus plastic polish

The best pinball cleaner available!

page 18

Novus #1 - \$3.89 Novus #2 - \$4.99

Novus #2 - \$4.99 Novus #3 - \$5.49

Pinball Price Guide



page 4

Mr. Pinball Price Guide -**New for 2001!**

\$15.00



Order Information

Dear Pinball Machine Owner,

Thanks for joining us in the endless pursuit of pinball perfection!

This catalog is just a sampling of our vast inventory of parts, supplies and information to help you keep your games playing and looking like new. Whether you're operating your machine commercially or preserving and playing a pristine pinball for your personal pleasure, we can help.

Your pinball machine is a work of kinetic art that chronicles popular culture and engineering. Each one is a limited edition collectible that deserves tender loving care.

Read all you can about their maintenance and history and KEEP THEM CLEAN and in a climate-controlled environment! There are many pinball maintenance "Pin Tips" throughout these pages to assist. Don't hesitate to call with your questions or comments. If you're looking for a specific part, be sure to have the part number handy – there are thousands of different pieces for thousands of different machines!

Sincerely, The Staff at Marco

MARCO POLICY:

Terms:

Merchandise and shipping fees must be prepaid by check, cash, money order, C.O.D, PayPal® or major credit card unless an open account has been established by providing 1 bank and 3 open account trade references to us. Please call for a credit application. Make Paypal® money transfers (www.paypal.com) to paypal@pinballmachine.com. Minimum Orders:

There is no minimum order for domestic sales, there is a \$100 minimum order for ALL INTERNATIONAL SALES. Returned Checks:

Returned checks will be charged an additional \$20.00 handling fee.

Prices:

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Please open packages immediately upon receipt and notify the carrier to file a claim if goods have been damaged in shipping. Keep all shipping containers for inspection.

Returns:

All items are unconditionally guaranteed. You may return any items found to be unsatisfactory within 30 days for a full refund. Due to the sensitive nature of electronic components, we cannot offer refunds on new electronic components. Items covered by a manufacturer's warranty should be returned to the manufacturer.

Shipping:

Orders over 5 pounds are typically shipped UPS ground. Orders under 5 pounds are shipped USPS. All other common carrier methods of shipping are available at your option for additional charge. Contact us for shipping charges on Next Day, 2nd Day, or 3 Day, express, and international service.

Inquiries

If you have questions about an order, please call us and have your invoice number available.

Ordering is Easy!

Find our Order Form on Page 38

Web:

www.pinballmachine.com

2 Fax Anytime:

(800)295-8458, (803)957-6974

3 Call:

803-957-5500 (10 am - 7pm EST M-F)

We supply parts from the following vendors:





Throughout this catalog, you will find boxes like this filled with useful bits of information or time-saving hints that will help you get the most out of the pinball experience.

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www.pinballmachine.com fax: 803-957-6974

Pin Paraphenalia



PINBALL FRIDGE **SOUND MAGNET**



With its magnetic back, this miniature pinball machine model attaches to any magnetic surface to remind you of your true obsession. Press the flipper buttons, and real pinball machine noises sputter from the 3inch tall "Sci-Fi Odyssey" game. There is even a tiny pinball rolling about the playfield. A perfect pin-head present!

#MINIPIN - Mini magnet pinball machine \$6.95

PINBALL ON THE LITTLE SCREEN



Own your own VHS NTSC copy of this professionally produced video that aired on Pay-Per-View. It feature stars such as Guns & Roses guitarist Slash, Pinball historian Ricahrd Bueschel, Aerosmith guitarist Joe Perry, and much more. The entire pinball era is covered, with focus on its cultural impact, in this entertaining documentary chock full of celebrity interviews. A must-see for anyone who has dropped a quarter into a pinball machine.

#HOP - History of Pinball video \$16.95

A BRIEF HISTORY OF PINBALL

- 1930 Little Whirl-Wind (Howard Peo). The first upright pin game.
- 1931 Baffle Ball (D. Gottlieb & Co.). The first commercially successful pinball machine, selling 50,000 units.
- 1931 Bally-Hoo (Bally Mfg.). Bally's kick-off pinball machine. Sold 75,000 units.
- 1932 Advance (Harry Williams), Williams introduces the "tilt" mechanism.
- 1935 Stoner Mfg. Co. introduces back-glasses on their "Aristocrat" line of machines.
- 1947 Humpty-Dumpty (D. Gottlieb & Co.). The first pinball with flinners.
- 1948 Pop Bumpers introduced. Steve Kordek positions flippers at playfield bottom.
- 1951 Gottlieb introduces the 'slingshot kicker' still in use.
- 1954 Super Jumbo (D. Gottlieb & Co.) is the first four player game.
- 1956 Balls-A-Poppin' (Bally Mfg.). The first multiball machine.
- 1957 Wooden legs replaced by steel.
- 1960 Flipper (D. Gottlieb & Co.). The first add-a-ball pinball machine.
- 1960 Magic Clock (WMS Electronics). The first pinball machine with a moving target.
- 1966 Bazaar (Bally Mfg.). The first pinball machine with zipper flip-
- 1968 Williams increases flipper from 2" to the current 3" size.
- 1971 Challenger (D. Gottlieb & Co.). The first 2-player head-to-head pinball machine.
- 1971 2001 (D. Gottlieb & Co.) is first with in-line drop target banks.
- 1972 Pinball legalized in Los Angeles after a 33 year absence.

- 1975 Super Flipper (Chicago Coin). The first video pinball game.
- 1975 Dyn'O Mite (Allied Leisure). First hybrid solid state/electromechanical pinball machine.
- 1975 Spirit of '76 (Micro Games). The first totally electronic solid state pinball machine.
- 1976 Pinball legalized in New York City and Chicago after a 35 year absence.
- 1977 Atarians (Atari). The first wide-body pinball machine.
- 1979 Gorgar (Williams Electronics). The first talking pinball.
- 1980 Firepower (Williams Electronics). The first electronic pinball to feature multi-ball play.
- 1982 Caveman (D. Gottlieb & Co.). The first combination pinball/ video machine.
- 1984 Gil Pollock and investors buy Gottlieb, change name to Premier.
- 1987 Laser War (Data East). Data East's first machine, and the first one to feature stereo sound.
- 1987 Banzai Run (WMS Electronics) First pinball to feature vertical + horizontal playfields.
- 1988 Williams Electronics takes over Bally pinball manufacturing.
- 1989 Data East introduces solid state flipper on Robo Cop.
- 1994 Data East Pinball aquired by Sega, renaming the company to Sega Pinball, Inc.
- 1996 Gottleib/Premier closes its doors.
- 1999 Gary Stern aquires Sega Pinball, renaming the company to Stern
- 1999 Williams shuts down its pinball division.

Quick Index

Books 4-13
Collector's 4-5
Manuals7
Factory Literature 8-13
Parts Catalogs 8-13
Tech Books 6-7
<u>Parts 19-32</u>
Armatures/Plungers24
Ball Shooter Parts26
Bumper Caps23
Bumper Parts23
Buttons26
Cabinet Hardware26
Coils/Coil Sleeves 24
Connectors 28
Cords28
Drop Targets27
Electronic Components
Flipper Bats/Shafts 23
Flipper Parts 21-22
Flipper Rebuild Kits22
Fuses30
Lamp Socketes20
Lane Guides 19
Legs 26
Locks26
Metal Posts 20
Mylar32
Optos30
Plastic Posts19
Screws/Nuts20
Springs 17
Switches 25
Targets25
Trim 32
Supplies 14-18
Bulbs/Lamps 16
Cleaners 18
Displays16
Paints 18
Polishs 18
Pinballs17
Rubber Parts 14-15
Order Forms 35,37
-
Parts Kits34
Upgrades31

Tools

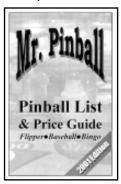


Collector Books

PRICE GUIDES

MR. PINBALL MACHINE INDEX

by Daina Pettit



Fresh from pinball machine archivist Daina Pettit comes the 2001 edition of his 124 page, wire bound pinball machine, bingo, and baseball index. The alphabetical listing also includes key coded entries for game features and books with pictorial or text references. Appendices contain serial number statistic comments, bibliography, and a glossary. Covers over 2000 flipper style machine titles made between 1947 and 2000 and a large number of the "holy grail" of data for collectors -- production numbers!

#MPPI - Mr. Pinball Machine Index

\$15.00

PENNY ARCADE **PRICE GUIDE**

By Larry Bieza



The Penny Arcade Price Guide by Larry Bieza contains valuable information for collectors including date of introduction, price, and notes on a wide variety of penny arcade machines. The categories are broken down into areas for baseball games, bowling and shuffle games, diggers/ cranes, driving games, fortune tellers, gun games, and miscellaneous machines. 84 pages, B&W photos, softcover.

#APG97 - Penny Arcade Price

Guide

\$16.00

ARCADE COLLECTING

Arcade Treasures by Bill Kurtz:

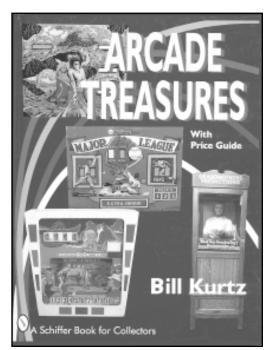
Coin-op collectors' favorite historian has done it again and brought the arcade memorabilia movement to life with this great book. This hardcover, 167 page book is filled with 447 color photos and commentary on the greatest pinball, baseball, arcade, fortune teller, novelty, and video games ever. Has tips on locating, trading, repairing, and maintaining your games.



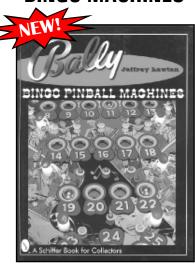
Arcade 1 by Bueschel & Gronowski:

It isn't pure pinball, but a fascinating retrospective of machines on the pinball periphery: baseball machines, shuffle alleys, gun games, fortune tellers, and dozens of types of intriguing arcade equipment from 1885 to 1983. The 306 page softcover book contains B&W photos, biographies, and anecdotes describing the creation and operation of the coinop wonders of their day.

#AIB - Arcade 1......**39.95**



BINGO MACHINES



BALLY BINGO PINBALL MACHINES

by Jeffrey Lawton

Finally, the segment of pinball often omitted in other collectors books is thoroughly covered in this handsome 162 page hardback color book. Bingo pinball historian Jeffrey Lawton goes into great depth covering the gameplay and history of the machines, beginning with the simpler early machines in 1951 to the "20 holer" games of the '60s. Also included are sections containing technical tips, trouble-shooting procedures, and common problems. This is one book that any serious collector, pinball or bingo, should

#BBPM - Bally Bingo Pinball

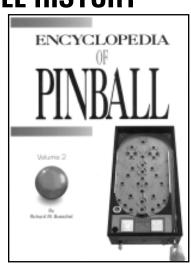
\$39.95

PINBALL HISTORY



Encyclopedia of Pinball, Vol. 1 by Richard Bueschel:

This comprehensive encyclopedia volume covers the origins of pinball from 1930 to 1933 when pinball entered popular culture. It covers the machines of the era and patent wars.



Encyclopedia of Pinball, Vol. 2 by Richard Bueschel:

The second volume of this historic series includes topics such as: Ending the patent wars, electricity comes to pinball, and more. Covers the years from 1934 to 1936.

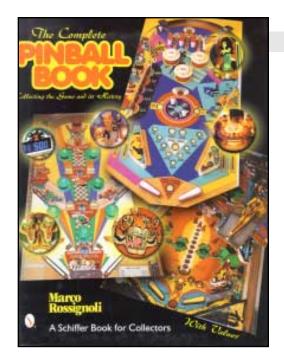
PinTip: Careful with the cleaning!

Don't use petroleum-distillate based cleaners on your playfields around clear plastic shields—they can dissolve the adhesive backing and lift the plastic up along with playfield paint (NOVUS polish has no distillates)!

See page 18 for cleaning supplies.

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Collector Books



Got Pinball? THE COMPLETE

PINBALL BOOK

by Marco Rossignoli

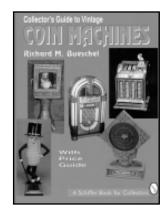
This hardcover tome is the heavyweight of pinball books, weighing in at over 4 pounds. The 320 page book vividly displays the evolution of the features that pinball players have come to love in today's modern machines, while highlighting the fantastic artwork that is a crucial element of the machines. The detailed history covers machines from the 1930s to the 1990s. It includes a listing of over 3000 games built to date, including statistics, pricing information, and over 900 color photographs. This book is definitely one of the most comprehensive collectors' books out there, and a must-have for any pinball lover's library.

#CPB - Complete Pinball Book \$59.95

COLLECTOR'S GUIDE TO VINTAGE COIN MACHINES

by Richard Bueschel

This release from coin-op machine scholar Dick Bueschel is a 200 page, hardcover edition with collecting tips, resources, and a price guide. Has hundreds of captioned color photos of slot machines, jukeboxes, pinball, arcade, vending, and scale devices from the 1900's through the video game era. This is an important reference work for your library.



#CGB - Collector's Guide, Vintage Coin Machines \$38.95

PINBALL MACHINES

by Eiden & Lukas

This 3rd edition coffee table style book consisting of 168 pages of color & B&W photos of about 200 pinball machines with emphasis on backglass art. This guide for collectors provides an alphabetical overview of the variety, artistry, & ingenuity that has made pinball a chronicle of pop culture. Highly recommended.

PINBALL 1

by Richard Bueschel

A 248 page soft cover book containing info, anecdotes, and B&W photos of the top 100 pinballs from 1931 to 1978. Also contains a 111 page history and reference guide.

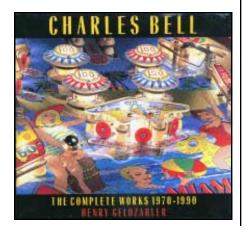
#P1B - Pinball 1 \$34.95



CHARLES BELL: THE COMPLETE WORKS

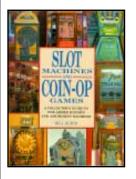
by Geldzahler

This is not a collector's reference book inasmuch as a photorealistically rendered journey that reminds collectors why they collect. The 146 page hardcover contains spectacular color lithographs of Bell's incredible oil paintings of gumball and pinball machines and other vintage toys. (Bally PARAGON owners will delight to the 'balls-eye' views of this machine.) #CBC - Charles Bell, the Complete Works \$45.00



SLOT MACHINES AND COIN-OP GAMES

by Bill Kurtz



Don't let the cultural misnomer in the title confuse you (a 'slot machine' in Europe isn't only a one-armed bandit — it's any amusement device with a coin slot) This 128 page color coffee-table type book focuses on reel-type slots and various arcade games (with a great pinball section, too). Kurtz is a master coin-op collector & writer who contributes frequently to GAMEROOM magazine and industry trade journals. This book is an important historical reference.

#SMK - Slot Machines & Coin-op Games \$35.00

PINBALL AND WORLD WAR II

Pinball and World War II explores the turbulent times of the WW2 period with respect to pinball in America. Never before or after has there been such a unique and interesting time for the game. All aspects of the game are explored in detail in this 118 page combbound volume. Numerous ads and photos are also featured. To top it off, a definitive conversion game list is provided for reference.



#PWW2 - Pinball & WWII.......\$24.95

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PINBALL TROUBLESHOOTING

For electro-mechanical pinball devotees, Russ Jensen details basic electrical theory and explains how to read schematic diagrams in this 50 page softcover guide. Sections covering basic circuits, switches, and troubleshooting techniques are included along with diagrams and photos of typical machines.

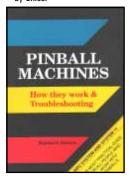
#PTG - Pinball Troubleshooting Guide

\$19.95

WPC TROUBLESHOOTING MANUAL

by Snicer

Here is an excellent and, hard to believe but true, EASY TO UNDER-STAND novice's repair guide for late model WILL-IAMS pinball (System 11 and WPC) machines. This is a large format book with big



pictures and diagrams intended to help isolate problems to the assembly level.

#WPCNS - WPC Troubleshooting \$29.95

REFERENCE HANDBOOK FOR **GAMES TECHNICIANS**

by Stanley

These 178 page soft cover books are written by a man with many vears experience in the coin-op business. This manual is a compilation of technical facts on jukeboxes, pinballs, and early videogames. It contains cross references from manu-



facturer to generic part #'s for tubes, transistors, IC's, coils, lamps, monitors, phonographs, and many other components. If you've ever had to fix any early solid state coin-op machines, this book is for you.

#RHS - Ref. Handbook by Stanley \$21.95

Tech Books

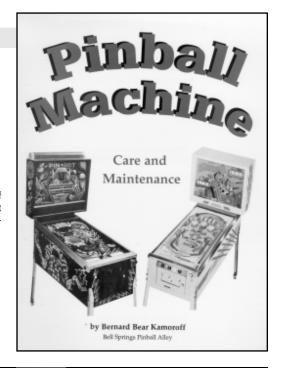
PINBALL MACHINE **CARE AND MAINTENANCE**

by Bernard Bear Kamoroff

Everyone shopping for a machine and new owners will find a wealth of valuable information and step-by-step help in this thorough manual. It covers both electromechanical and electronic machines from groundup. The wealth of topics include:

- · Choosing and purhcasing a machine
- Easy adjustments
- Descriptions and illustrations of components
- . Cleaning and maintenance
- Troubleshooting and do-it-yourself repair
- . Keeping the flippers 'hot'
- And much more!

#PMCM - Pinball Machine Care and Maintenance \$24.95



GOTTLIEB INSTRUCTION & SERVICE MANUAL

Even though this 70 page booklet was written by the GOTTLIEB people in the 60's, it remains an excellent source of generic information for any electro mechanical (EM) pinballs made after 1960. Contains sections starting with an excellent glossary of terms used by all machine makers, descriptions and adjustments of components and assemblies, circuit analysis, troubleshooting, game setup, and maintenance. This is a novice technician's guide to EM's that even pros can glean useful tips from.



#GISM - GTB Instruction and Service Manual...... \$9.95

PINBALL MACHINE **MAINTENANCE**

by Henk De Jager

This book is for you who have electromechanical basket-cases. New, recently translated from the Dutch author, this 196 page soft cover volume provides in-depth help for ailing EM's built between 1960 and 1977. This is an exhaustive exploration designed for the both the novice with little knowledge of electricity and the seasoned tinkerer. Includes many diagrams, drawings, tips and hints for amateur technicians on BALLY, GOTTLIEB, and WILL-IAMS equipment. Covers everything from light bulbs, to relays, to coin mechanisms. Highly rec-



#PMM - Pinball Machine Maintenance \$37.95

NOVICE GUIDES

WMS - Introduction to Coin **Operated Amusement Games:** A 66 page, 8½" x 11" guide to Williams electromechanical terminology that includes pictures and description of commonly used assemblies and components of pinball and baseball games. Has a glossary of coin machine jargon, troubleshooting section, wire color code chart, and chart of

#WMSICA Intro to Coin-Op Games \$10.95

schematic symbols.

Introduction To BALLY Flipper Games:

This 48 page comb bound, 81/2" x 11" novice level instruction book contains sections on terms & definitions, wire color codes, lubrication & adjustment instructions, relay, step-up, credit unit descriptions and other assembly information. Also contains instructions on servicing and troubleshooting.

#BLYIFG - Intro. to BLY Flipper Games \$9.95



Many dead Gottlieb early solid-state games are mis-diagnosed as having circuit board problems when the problem is simply a dirty or broken coin door slam tilt switch. The slam switch and the ball roll tilt switch are the only NOR-MALLY CLOSED switches on these games. To make matters even more complex, the last 5 System 80B games changed these switches back to NORMALLY OPEN!

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Tech Books





STAR*TECH PINBALL BULLETINS

ELECTRONIC PINBALL REPAIR AND MAINTENANCE VOL. 1:

Secrets from the best pinball techs in the industry are revealed by the coin-op editors of STAR*TECH Journal, the professional technician's trade magazine. This 118 page compilation of 203 factory revisions and technicians' fix articles covers solid state machines from all major manufacturers. The 15 general tips articles that cover subjects such as weak flipper cures, fixing switch matrixes, and more are especially useful. Covers the following machines:

8-Ball champ Aftor Agents 777 Atilla the Hun Back to the Future Batman Black Knight 2000 Black Water 100 Centaur Comet

Eight Ball Deluxe

El Dorado Elvira F-14 Tomcat Fire! Fireball Classic Funhouse Gilligan's Island Gold Wings Hardbody Heavy Metal High Speed Hot Shots

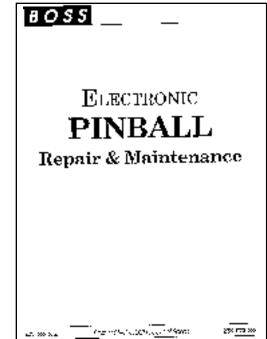
Jokerz Laser War Millionaire Mon. Nite Football Motordome Party Animal D.E. Playboy Rabbit Punch Robocop Rollergames Secret Service Silver Slugger

Space Shuttle Solit Second Simpsons Spring Break Star Ťrek TMNT Time Machine Truck Stop Terminator 2

#STBOSS - Star Tech Pinball Repair & Maint. Vol. 1 \$39.95

ELECTRONIC PINBALL REPAIR AND MAINTENANCE VOL. 2:

This volume contains 140 pages of information that picks up where Volume 1 leaves off. This edition focuses on pinball machines built from the mid-1980's through the mid 1990's and includes bulletins and tips on the specific games listed to the right, as well as: Williams/Bally general illumination; low solenoid voltage, and dozens of other general and specific electronic pinball machine technical topics. Get this manual and stay informed about your machine!



Apollo 13 Addams Family Ratman Fore Black Knight 2000 Comet Cue Ball Wizard Cyclone Demolition Man

Fish Tales Flintstones Frankenstein Getaway Guns N' Roses Hook Hot Shot Indiana Jones Judge Dredd

Lethal Weapon 3 Party Zone Pennant Fever Phantom Popeye Rollergames The Shadow Simpsons Spy Hunter

Star Wars Street Fighter 2 GTB Strikes & Spares Terminator 2 Twilight Zone Time Machine Whitewater

BALLY HOME PINBALL GAMES -TEST PROCEDURES MANUAL



The BALLY Standardized Test Procedures Manual for Series I & II Home Pinball Games covers troubleshooting and maintenance for all the home style electronic pinball games that BALLY produced. The Series I games are FIREBALL & EVEL KNIEVEL; the Series II games are Captain Fantastic, Galaxy Ranger, and another FireBall. Diagnostics and troubleshooting are described in sections that include Display, Switch Matrix, Solenoid, Sound, CPU, Mechanical Adjustments, and all wiring diagrams and schematics. Also included are data sheets for all solid state devices used in the game to help you substitute parts.

#BLYH - Home Pin Manual

\$24.95

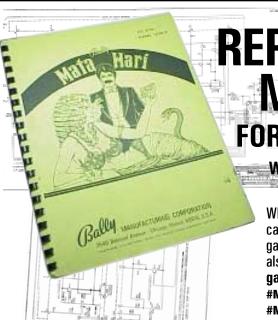
Dr. Who

PinTip: Cool Bulbs

Switch to #47 lamps to let your machine run cooler. They burn slightly dimmer than #44's, but draw less current and last longer. (See page 16)

PinTip: Pin-Comfort

Store your pinball machine in a climate-controlled environment whenever possible. Large temperature and humidity changes hasten the deterioration of backglass and playfield artwork.



REPLACEMENT MANUALS **FOR YOUR MACHINE!**

WE CARRY ALL OF THEM!

Whether your copy is mangled or missing, we can furnish new originals for all late model games. We also have thousands of older manuals available in our library. Be sure to specify game name, manufacturer.

#MANUALS - Solid state manual (>1977) \$25.00 #MANUALE - E.M. Manual (games < 1977) 20.00

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Factory Literature

BALLY ELECTRONIC **PINBALL THEORY** OF OPERATION

This 20 page manual, BALLY #FO-601-02, is intended for the experienced technician who wants an in-depth explanation of the BALLY 6800 based MPU system. It is the same material presented at BALLY service schools and complements the FO-560-3. This booklet explains exactly what goes on during all those MPU green LED flashes and how the MPU communicates with the rest of the game hardware. Get this booklet to help troubleshoot those "dog" problems!

#BLYFO60102 - BLY Theory of Operation \$9.95

BALLY ELECTRONIC PINBALL REPAIR **PROCEDURES**

This is the 92 page factory repair manual #FO-560-3 for the very popular BALLY (and STERN) electronic coin-op games made from 1977 through 1982. It



has two sections troubleshootina instructions for isolating problems to hoth the module and component level. Includes pictorial guide and parts lists (but not schematic diagrams) of all major electronic assemblies. Also in-

cludes Theory of Operation & Troubleshooting section for BALLY sound modules. One of these books was shipped in every new BALLY machine made in this era, but most seem to have disappeared just when you need them most. This is the single most useful document for taking care of your early BALLY electronic pinballl machine.

#BLYFO560-3 - Electronic Repair

Procedures \$18.95



Mount your new MPU battery somewhere off the board using a remote battery holder (page 30). If and when it leaks, it won't destroy a valuable circuit board! Change your battery every 2-3 years!

(Salli

. PARTS CATALOGS

1979-1 PARTS **CATALOG**

1969 PARTS CATALOG

This 174 page catalog covers all BALLY pinball machines from manufactured from Feb. 1963 through Jan. 1969. Includes assembly diagrams, game by game part #'s, and a numerical part # listing Covers these machines.

stilly. Ouvers	these macini
ces High	Dogies
and Wagon	50/50
azaar	Gold Rush
ig Day	Grand Tour
lue Ribbon	Happy Tour
ullfight	Harvest
us Stop	Hay-ride
ongo	Hootenanny
apersville	Loop The Loo
ampus Queen	Mad World
osmos	Magic Circle
ross Country	Mini-zag
ue-tease	Monte Carlo
iecotok	Moon Shot

Sheha 3-in-line Six Sticks Sky Divers

(Bally

#BLY1969 - BLY 1969 Parts Catalog \$21.95

1976 PARTS CATALOG

Factory catalog contains details of all assemblies for electro-mechanical BALLY pinballs from 1969 through 1976. This spiral bound, 218 page manual includes exploded assembly diagrams, playfield charts, and all part numbers. A must-have reference for any hobbyist. Schematics are not included in parts catalogs. Includes playfield diagrams.

Million B.C.	Delta Ueer
ir Aces	El Toro
migo	Expresswa
ig Show	Fireball
on Voyage	Flicker
oomerang	Flip Flop
ow & Arrow	Hi-deal
apt. Fantastic	Hi-lo Ace
hamp	Hokus Pok

Mariner Monte Carlo Nip-it Odds & Evens Old Chicago

Sky Kings Skyrocket

1979 PARTS CATALOG



This factory catalog contains backglass pictures, playfield diagrams, exploded views of common and game specific parts and electronic assemblies of Bally machines from 1979. It also has MPU board interchangeability charts. Covers the following machines:

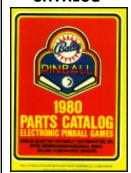
Freedom Night Rider Black Jack Mata Hari Evel Knievel Lost World Power Play Strikes & Spares 6 Million Dollar



This update to the 1979 catalog listed below contains the same information for the other five games released that year:

Playboy Supersonic Star Trek

1980 PARTS CATALOG



The 1980 edition containing the same information as 1979, but covers the following machines:

Harlem Globetrotters Dolly Parton Future Spa

Nitro Groundshaker

#BLY1979-1 - Bally 1979-1 Parts Catalog \$19.95 #BLY1980 - Bally 1980 Parts Catalog 19.95

1980-1



An update to the 1980 catalog, covering the rest of the machines released that year:

Mystic Hotdoggin Frontier Xenon Flash Gordon.

1981



Covers machines released in 1981, in the same format as the 1979 catalog including:

Eight-Ball Deluxe

Fathom Medusa

#BLY1980-1 - Bally 1980-1 Parts Catalog 19.95 #BLY1981 - Bally 1981 Parts Catalog 19.95

1982 PARTS CATALOG

Factory Parts catalog contains the same information as the 1979 version, but covers:

Elektra Rapid Fire Mr. & Mrs. Pac Man

Spectrum

#BLY1982 - Bally 1982 Parts Catalog 19.95

#BLY1979 - Bally 1979 Parts Catalog \$19.95

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Factory Literature



BALLY/MIDWAY SERVICE BULLETINS

1977-80 BALLY SERVICE **BULLETINS:**

A 42 page collection of service bulletins addressing the earliest BALLY solid state games. Includes charts for MPU memory jumpers/combinations for the AS-2518-17 and AS-2518-35 games, recommended spare parts kit, update descriptions for the AS-2518-15/16/21 boards, early solenoid driver board modification, corrections to Eight Ball schematic, TE-635-2 test fixture update procedure, detailed procedure for converting AS-2518-17 MPU to AS-2518-35 MPU (electronic sound) capability, and modification of TE-633-2 test set for electronic sound.

#BLY80SB - Bally 1977-80 Service Bulletins \$8.95

1988: BALLY & MIDWAY SERVICE BULLETINS

A 50 page compilation of service bulletins pertaining to the equipment noted below and an especially useful 9 page collection of the following technical system descriptions 6803 Control Board Theory of Operation, 6809 sound board Self-test Routine, 68000 Sound Board Deluxe Self Test Routine, and the 6803 Control Board Power Up Test Sequence. Coveres the following machines:

Pinball: Beat The Clock Motordome Black Belt Hard Body Party Animal Heavy Metal

#BLY88SB - Bally/Midway Service Bulletins\$5.25

PARTS CATALOGS

CHICAGO COIN

MACHINE





1949: Reprint of the 20 page, comb bound CCM manual with pictorial part and assembly identifica-

#CCM49 - CCM 1949 Parts Cat \$8.95

1961:Reproduction of the 100 page, comb bound CCM parts catalog with exploded diagrams and part numbers of all common CCM assemblies.

#CCM61 - CCM 1961 Parts Cat.

1969: Reproduction of the 100 page, comb bound CCM parts catalog. Covers Pinball Machines, shuffle allies, video games, and common assemblies produced by CCM.

#CCM69 - CCM 1969 Parts Cat \$12.95

1972: Reproduction of the 100 page, comb bound CCM parts catalog with exploded diagrams and part numbers of all common CCM assemblies.

#CCM72 - CCM 1972 Parts Cat



BALLY 1987 SERVICE BULLETINS:

This Bally, Midway & Sente 84-page comb-bound compilation of service bulletins pertains to the equipment noted below and has an especially useful 8-page 6803 Control Board Theory of Operation section for pinball machines.

Pinball: Kings Of Steel Black Pyramid Spy Hunter Fireball Classic

8 Ball Champ Beat The Clock Black Belt

Strange Science Hardbody Videogames:

Rampage Stocker Strikes & Spares Shuffle Alley.

#BLY87SB - Bally/Midway/Sente 1987 Service Bulletins

\$9.95

BLY1987 COMMON ASSEMBLIES:

90 page comb-bound companion catalog to #BLY87SB. Contains exploded diagrams and parts lists for common mechanical assemblies (flippers, thumpers, slingshots, drop targets, etc.)

#BLY87C - Bly/Mwy/Sen 1987 Pinball Common Assemblies \$9.95

STERN PARTS CATALOGS



This 72-page Early Stern parts catalog covers both video games and pinball machines up to 1981. Contains playfield diagrams and exploded parts assemblies for the following machines:

Lightning
Freefall
Nine Ball
Big Game
Sea Witch
Star Gazer
FLight 200
Magic
Cheetah
Quick Silver
A IC

Hot Hand Galaxy Lectronamo Wild Fyre Stingray Memory Lane

#STERN81PC -	Stern	1981	Parts	Catalog	\$19.95
#STERN79PC -	Stern	1979	Parts	Catalog	\$19.95

Bally MIDWAY = PARTS CATALOGS

BALLY 1987 PLAYFIELD PARTS GUIDE:



122 page comb-bound factory catalog has game-specific parts list and playfield photos for the following games:

Pinball: Black Belt Hardbody Heavy Metal

MotorDome

#BLY87P -Bally/Midway / Sente Playfield Parts Guide.....\$19.95 "YELLOW BOOK" PINBALL! **VIDEO PARTS CATALOG:**

Documents late model BALLY pinball and MIDWAY video game machines. A 839-page factory 3" yellow loose leaf binder with about 7 lbs. of paper covering part #'s and diagrams.

Pinball: Addams Family Atlantis Bugs Bunny Dr. Dude Dr. Who

Gilligan's Island Harley Davidson Mousin' Around Party Zone Pool Sharks Radical Elvira Game Show Transporter Truck Stop.

Video: Arch Rivals Pigskin Strike Force Super Hi-Impact Terminator 2 Total Carnag Tri-Sports

#BLYYEL - BLY Yellow Book\$59.95

"GRAY BOOK" PINBALL PARTS CATALOG:

A 658-page recent parts catalog, a.k.a. "the White Book", in a large 3 ring binder:

Pinball:

Twilight Zone Popeye World Cup

Corvette Addams Family Gold Edition
Theater Of Magic

#BLYGRY - BLY Gray Book......\$59.95

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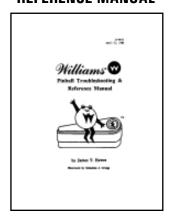
803-957-5500



Williams Tactory Literature **PARTS CATALOGS**

1960-1980

WILLIAMS PINBALL TROUBLESHOOTING/ REFERENCE MANUAL



1986 factory service manual highlighting the WILL-IAMS System 9 computer system. This covers games such as STAR LIGHT, SPACE SHUTTLE, SORCERER, COMET, STRIKE ZONE shuffle alley, & others. The 80 page book has extensive references to the earlier Systems 4, 6, 7, 8, & later System 11 as well as System 9 to System 11 equivalency chart. Also included are sections covering mechanical maintenance, matrix tables, and electronic and electromechanical troubleshooting flowcharts. This text is recommended for the novice pinball tech who has some electronic experience.

#WPTR - WMS Pinball Troubleshooting Reference Manual \$18.95

WILLIAMS SOLID STATE FLIPPER MAINTENANCE MANUAL

This 35-page instruction manual provides identification and mechanical adjustment, game adjustment, bookkeeping, diagnostic, and troublshooting procedures for Williams solid state flipper games (Systems 3, 4, 6) starting with Gorgar and Laser Ball. It also includes general interconnection information, as well as some handy troubleshooting charts.

#WMS80MM - Flipper Maint. \$9.95



Don't lubricate solenoids!

The moving components are designed to run without additional oils or greases that act as dirt magnets and become abrasive over time. Exceptions to this rule are motors and certain mechanical assemblies.

WILLIAMS 1960 PARTS CATALOG

log for early WILLIAMS Electromechanical Pinball and Arcade games. Contains drawings and part numbers of common assemblies used. Covers:

3 Hole Deluxe Light Up Bank Pool All Star Baseball Army & Navy Bandwagon Big Ben C.O.D. Circus Wagon Cue Tee Daffy Derby Deluxe Bank Pool Deluxe Baseball Diamond Score Pool Four Bagger Grand Champion Gun Club Hot Diggitty Imperial Pool Jet Fighter Jolly Joker King of Swat Lazy Q



Light Up Pool Major League Nine Sisters Olympic Pool Palisades Pennant Baseball Peppy Peter Pan Piccadilly Polar Hunt Race the Clock Regatta Royal Crown

Safari Deluxe Score Pool Screamo Sidewalk Engineer Silver Skates Skyway Smoke Signal Snafu Special Deluxe Base-hall

Star Colors Star Pool Star Baseball Struggle Buggies Super Star Baseball Super Pennant Baseball Super Score Super Jet Fighter Surf Rider Three Deuces Thunderhird

#WMS60 - WMS 1960 Parts Catalog \$19.95

WILLIAMS 1962 PARTS CATALOG



This 85 page comb-bound catalog from the 60s contains parts diagrams of step units, bumper assemblies, knocker assemblies, and nearly every other common assembly in Williams machines built before 1962. It also contains a handy lubrication guide as well as a coin acceptor addenum. It covers the machines listed below:

Baseball Games Bowling (Ten Pin & Ten Strike) Gun Type

Pool Games Horse Race

#WMS62 - WMS 1962 Parts Catalog \$22.95

WILLIAMS 1980 PARTS CATALOG

212 Page catalog with diagrams and parts numbers for:
Algar Hyperball Algar Alien Poker Jungle Lord Barracora Black Knight Laser Ball Lucky Seven Pharaoh Contact Phoenix Cosmic Gunfight Disco Fever Scorpio

Firepower Flash

Stellar Wars

Time Warp



WILLIAMS 1974-75 PARTS CATALOG

This 244 page catalog includes sections with exploded diagrams and parts numbers for WILLIAMS' flipper pinball, baseball & football, gun, horse race, bowling, shuffle alley and arcade games produced between 1969 and 1975. Especially useful is the cross referenced parts number table for interchanging units between different pinball and shuffle allev games. Machines covered:



Pinball: Hit & Run 4 Aces Aces & Kings Honey Jacknot & Action Baseball Ambush Goldrush Ball Park Big Star Bonanza Gun Cabaret Cue T Dipsy Doodle Doodle Bug Expo Fan-Tas-Tic Fast Ball Flotilla Fun Fest

Gay 90's Granada Gridiron

Jungle Drums Klondike Line Drive Mini Bow Miss "O Paddock Phantom Gun Post Time Ringer Rock & Roll Set Un Seven Up Smart Set Sniner Gun

Space Pilot Spanish Eyes Spooks Gun Stardust Stockade Strike Zone Suner Star Suspense Swinger Travel Time Upper Deck Shuffle Alleys: Amazon Astrodome

Solids & Stripes

El Grande Encore Epsilon French Quarter Gamma Gateway Arch Laguna Liberty Bell Orion Palos Verde Pegasus

Blazer

Century

Cimarror

Times Square Windy City Jungle Drums Stockade Gun Horse race: Winner
Baseball &
Football:
Action Baseball Line Drive Hit & Run Upper Deck Fast Ball Gridiron Arcade games: Mini-Bowl Flotilla.

#WMS75 - WMS 1975 Parts Catalog \$26.95

Aztec

WILLIAMS 1977-78 PARTS CATALOG

This is a 142 page manual covering WILL-IAMS / UNITED pingames, baseball & gun games, and shuffle alleys. Contains a lubrication guide, alphabetical index of assembly descriptions, and listing of games by production dates from Jan. 1972 thru Dec.1976. Includes parts info for the following machines:

Pinball: Stardust Big Star Fan-tas-tic Swinger Travel Time Fun Fest Tropic Fun Gulfstream Jubilee Darling Oxo Star Action Triple Action Dealers Choice Strato-flite

Lucky Ace Star Pool Satin Doll Big Ben Pat Hand Triple Strike Little Chief Toledo Space Mission Space Odvssev Aztec Blue Chip Grand Prix Granada Honey Olympic Hockey

Snanish Eves



Super Star Baseball Games : Line Drive Upper Deck Gun Games: Stockade Ambush Shuffle Alleys: Windy City French Quarter Gateway Arch Astrodome

fax: 803-957-6974

Golden Triangle Twin Cities Royal Hawaiin Granite Civic Center Unique Supreme Marquis Star Sapphire Seville Emerald

#WMS80PC - WMS 1980 Parts Cat. \$19.95 | #WMS78 - WMS 1977-78 Parts Catalog \$21.95

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Williams Tactory Literature





PARTS CATALOGS

1989 TO 1994

WILLIAMS "BLUE BOOK" PARTS CATALOG

This 670-page factory blue 3" loose leaf binder includes complete part # listings and diagrams for the following games:

Banzai Run Big Guns Black Knight 2000 Comet Cyclone

F-14 Tomcat Fire! Grand Lizard High Speed Jokerz Millionaire

Road Kings Sorcerer Space Station Space Shuttle Swords of Fury Shuffle Allevs: Strike Zone Tic Tac Strike Top Dawg. NARC

#WMSBLUE - WMS Blue Book\$59.95

WILLIAMS "RED BOOK" PARTS CATALOG

A 852-page factory parts catalog documenting WILLIAMS games. A fat red 3" loose leaf binder detailing the latest WILLIAMS pinball, shuffle alley, and video games, including:

Bad Cats Diner Dracula Fish Tales **Funhouse**

Getaway

Hurricane Riverboat Gambler Rollergames Terminator 2 The Machine Whirlwind

Shuffle Alleys Shuffle Inn Shuffle Inn Deluxe Strike Master & Jr.

High Impact Hit The Ice Smash TV Sports games Hot Shot

#WMSRED - WMS 1992 Red Book \$59.95



WILLIAMS "GREEN BOOK" PARTS CATALOG:

The last parts catalog published in a large 3 ring binder contains 444 pages of parts diagrams and part numbers for the following machines:

Pinball: Indiana Jones Star Trek Next Generation Road Show

Demolition Man







PINBALL SERVICE BULLETIN BOOK

This collection of service bulletins covers Sega, Stern, and Data East machines from Early 1988 to 2000. The three-ring binder is packed full of bulletins concerning modifications, settings, software options, adjustments, and more for Sega (Now known as Stern) and Data East machines. Machines covered in this collection include:

ABC Monday Night Back to the Future

Football

Guns N' Roses

Hook Jurassic Park Last Action Hero Leathal Weapon 3

Phantom of the Opera Playboy 35th Anniversary Robocop Secret Service The Simpsons Star Trek 25th Anniverary Rocky& Bullwinkle Tales from the Crypt The Who's Tommy

#SEGASB - SEGA/Stern/D.E. Service Bulletins

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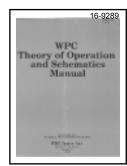
1988

- 1994

WPC INFO

WPC THEORY OF OPERATION & SCHEMATICS

If you're fortunate enough to own a late model WILL-IAMS pinball machine and want an indepth understanding of how it works, this 1991 WIL-LIAMS Tech Support document is for you. It con-



tains 60 pages of set-up, system & circuit operation and troubleshooting info plus an additional 14 large circuit schematics. WPC games (WILLIAMS Pinball Controller) are listed on page 28 in the revisions chart.

#WPC9289 - WPC Theory & Schem.

\$19.95

1993 WPC SCHEMATICS

This 1993 schematic supplement details the follow-

ing assembly descriptions & changes: Power wiring diagram, CPÜ Board schematic. Power Driver Board schematic, Dot Matrix Controller Board, Dot Matrix Display Board (BABCOCK & CHERRY



brands), Fliptronic II board, Sound Board schematic (pre & post Ma 1993). 20 ledger sized diagrams.

#WPC9473 - WPC Schematics \$16.95

1994 WPC SCHEMATIC MANUAL

This 20 page set of ledger size, factory drawings detail Power Wiring diagrams, Pre 4/94 CPU (Security Board) diagrams, Power Driver board, Dot Matrix controller Board, BABCOCK & CHERRY display driver boards, FLIPTRONIC II board, and Sound Board schematics. WMS #16-9834.2

#WPC9834 - WPC Schematics \$9.95

WPC-95 SCHEMATIC MANUAL

This 20 page set of ledger size, factory drawings detail the latest Power Wiring diagrams, Pre & Post 4/94 CPU (Security Board) diagrams, Power Driver board, Dot Matrix controller Board, BABCOCK & CHERRY display driver boards, FLIPTRONIC II board, and Sound Board schematics. WMS #16-10159.3

#WPC10159 - WPC-95 Schematics \$9.95

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D. Gottlieb & Co.

Service

SYS.1 SOLID STATE PINBALL SERVICE MANUAL - 1ST ED.

The 34 page technical service manual that applies to the games listed below but with emphasis on waveform pictures, detailed theory of operation, and schematic diagrams.

#GOTSRV1 Gottlieb Sys. 1--1st Ed.

\$14.95

SYS.1 SOLID STATE PINBALL **SERVICE MANUAL - 2ND ED.**

This 92 page factory service manual covers the first GOTTLIEB electronic pinball games. The System 1 is designed around the Rockwell PPS-4/2 microprocessor and was used in the games:

Asteroids Annie Buck Rogers Close Encounters Hulk Countdown Joke Sinhad Joker Poker Pinball Pool Charlie's Angels Dragon Roller Disco Totem

Contains theory of operation, troubleshooting guides, electronic components list, component location dia grams & schematics.

#GOTSRV2 - Gottlieb Sys.1,2nd Ed. \$19.95

#GOTCOMBO - 1st & 2nd editions

\$29.95

SYS. 80 SERVICE MANUAL



The 60 page factory manual covering GOTTLIEB electronic System 80 Operation, Troubleshooting, Theory of Operation, Component level repair, Schematics & Parts Lists, cable connector wire assignments, and System 80 LSI devices. Shows test point scope

#GOTSRV80 - Sys.80 Service Manual \$16.95

Parts Catalogs

GOTTLIEB 1957 PARTS CATALOG

This 40 page document contains pictorial diagrams along with part numbers, adjustments, and lubrication instructions for vintage GOTTLIEB pinball machine common assemblies prior to 1957. Also has a parts price list from a bygone era. This catalog covers the following games:

All Star Basketball Arabian Knights Chinatown Classy Bowler Coronation Crossroads Derby Day Diamond Lil Dragonette Easy Aces Flying High Four Stars Frontiersman Gladiator Globe Trotte Gold Star Grand Slam Green Pastures Guys & Dolls Gypsy Queen Hanny Days

Hawaiian Beauty Harbor Lites Hit N'Run Jockey Club Jubilee Jumbo Lady Luck Lovely Lucy Marathon Marble Queen Mystic Marve Niagara Pin Wheel Poker Face Quartette Queen of Hearts Quintette Rose Bowl Score Board Sea Belles Shindig Skill Pool Sluggin' Champ

Southern Belle

D.Gottlieb Elo. PARTS CATALOG QUALITY PRODUCTS

TYO MIROSHERAYS, CAYAGO S, EL, USA. FIGURAL, John S. CAYAGO SOCO Stage Coach Sweet Add-A-Line

Twin Bill Wild Wost

#GOT57 - Gottlieb 1957 Parts Catalog \$19.95

Toreador

GOTTLIEB 1966 PARTS CATALOG - VOL. H

A 128 page book with same information as earlier volume but covers the following machines:



Aloha Big Casino Big Top Bonanaza Bowling Queen Corral Cover Girl Egg Head Fashion Show Flipper Clown Flipper Parade Flipper Cowboy Flipper Fair Flying Chariots Flying Circus Foto Finish Gaucho Gigi Happy Clown

Oklahoma Olympics Sea Shore Ship Mates Show Boat Slick Chick Square Head Sunset Sweet Hearts Swing-Swing-A-Long Tropic Isle World Fair

Lancers Liberty Belle

#GOT66 - Gottlieb 1966 Parts Catalog \$24.95

GOTTLIEB 1968 PARTS CATALOG - VOL.

Square Head Flipper Pool Electra Pool Paradise Pleasure Isle Wing-a-long Flying Chariots Gigi Big Top Ship Mates World Fair Ice Revue Masquearde Central Park Hurdy Gurdy Mayfair Hyde Park Bonanza Bowling Queen Sea Shore Rancho North Star Crosstown Happy Clown Sky Liine Thorobred

Super Score

Kings & Queens

Hi Dolly

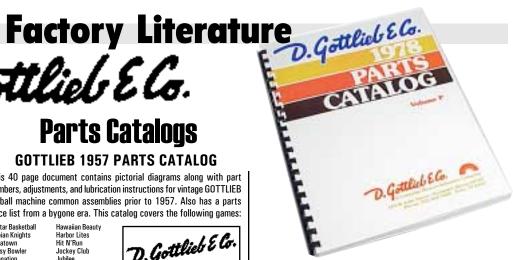
Cow Poke

Subway Dancing Lady King Of Diamonds Solitaire Hi-score Hit-a-card Diamond Jack

A 166 page book with same information as listed above but covers the sollowing machinesank-abal PARTS CATALOG o.qattalieta 41 YEARS Troubadou

Super Duo Harmony Sing Along

Surf Side



GOTTLIEB 1978 PARTS CATALOG

Contains the playfield diagrams and sub-assembly break downs for the following games:

"300"/Ton Scor Abra Ca Dabra Atlantis Big Hit Big Indian/ Big Brave Bronco/Mustang Buccaneer Canada Dry Centigrade 37 El Dorado

Far Out Out Of Sight Fast Draw/ **Quick Draw** High Hand Hot Shot/Big Shot Ina Pin Jack In The Roy /Jumping Jack Jacks Open

Spin
Jungle Queen/ Jungle Princess Magnotron/ Duotron Pro Football Royal Flush/ Card Whiz Sky Jump Soccer/Super

Jet Spin/Super

Soccer Spin Out Spirit Of '76/ Pioneer Sure Shot Surf Hamp/Surfer Target Alpha/Solar Top Card Volley

#GOT78 - Gottlieb 1978 Parts Catalog \$17.95

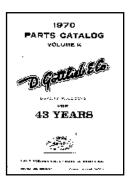
GTB 1970 PARTS CATALOG - VOL. K

A 152 page book with same information as listed above but covers the following machines:

Elite Guard Palace Guard Spin Wheel Fun Land Fun Fair Tivoli Paul Bunyan Bin Jack Domino Grande Domino Playmates

Four Seasons

Hi-Lo Hearts & Spades Airport College Queens Bumner Pool Target Pool Mini Pool Wild Wlld West Lariat Super Bowl Mibs Skipper



#GOT70 - Gottlieb 1968 Parts Catalog \$24.95

GOTTLIEB 1976 PARTS CATALOG



166 Page comb bound catalog listing assy #'s and exploded assy, views for the following games:

Astro Bristol Hills Card King Challenge Dimension Drop-a-card Extra Inning 4 Square Flying Carnet Grand Slam Home Run King Rock

fax: 803-957-6974

Now Orbit Outer Space Playball Play Pool Pop A Card Roller Coaster Sheriff Snow Derby Snace Orbit Star Trek Texas Ranger 2001 World Series

#GOT76 - Gottlieb 1976 Parts Catalog \$24.95

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Wild Life







GTB 1980 PARTS CATALOG 76 Page catalog with common assemblies, game specific part numbers, and exploded diagrams for the following machines:

Incredible Hulk Sinbad Solar Ride Count Down Cleopatra Close Encounters Dragon Joker Poker Pinball Pool Totem

#GOT80 - Gottlieb 1980 Parts Catalog \$13.95

GTB 1982 PARTS CATALOG

142 page catalog with common assemblies, game specific part numbers, and exploded diagrams for the following machines:

Cleonatra Sinbad Joker Poker **Close Encounters** Dragon Charlie's Angels Solar Ride Countdown Pinhall Pool Totem Hulk Genie Roller Disco

Buck Rogers

Sniderman

Charlie's Angels

Star Race James Bond Time Line Force li Pink Panther Mars Volcano Haunted House Devil's Dare

Panthera

Asteroid Annie

Counterforce



#GOT82 - GTB 1982 Parts Catalog \$18.95

GTB/PREMIER 1987 PARTS CATALOG

172 page catalog featuring playfield diagrams, exploded assembly views, parts lists, & manual addenda for the following

games:

Alien Star Amazon Hunt Black Hole Bounty Hunter Chicago Cubs Devil's Dare El Dorado Haunted House Hollywood Heat Ice Fever Jacks to Open Punk Q*Bert's Quest Rack 'Em Up

Ready Aim Fire Rock Encore Rock Royal Flush Deluxe

Rocky Spirit Strike Super Orbit Tag Team The Games Touchdown Triple Play



Parts Catalogs

GTB/PREMIER 1992 PARTS CATALOG



20 2 page catalog contains parts information plus technical service bulletins. Has an especially useful chart for decoding coil windings gauge & turns by part #. Games covered are:

Gold Wings Spring Break Victory Diamond Lady TX Sector Robo-War Excalibur Bad Girls Hot Shots Big House

Bonebusters Lights..Camera.. Action! Silver Slugger Vegas Deadly Weapon Title Fight Car Hop Hoops Cactus Jack's Class of 1812

#GOT92 - GTB/Premier 1992 Parts Catalog \$19.95

GTB/PREMIER 1995 PARTS CATALOG

This 172 page comb bound book contains playfield diagrams, exploded assembly drawings with part #'s, System 3 Test Fixture information, and technical service bulletins for the latest GOTTLIEB games including:

Surf'n Safari Operation Thunder Super Mario Bros. Mushroom World Cue Ball Wizard Street Fighter 2

Gladiators Wipe Out World Challenge Soccer Rescue 911 Freddy · A Night-mare On Elm St



#GOT95 - GTB/Premier 1995 Parts Catalog \$19.95

GTB SERVICE BULLETINS

SYSTEM 80 TECHNICAL UPDATES (1987)

This 24 page factory bulletin collection covers: machine set-up procedures; pinball game/number listing, System 80A/B overview, board revisions, & percentaging; drop target modifications; MA-766 & 886 sound board theory of operation; wire color code chart & GENISIS, GOLD WING, S PRING BREAK, & ARENA SERVICE bulletins.

#GOTSB87 - System 80 Updates\$5.00

SYSTEM 3 TECHNICAL UPDATES (1993)

A 25 page, factory compiled group of service bulletins addressing problems in the following games:

Super Mario Bros. Mushroom World Street Fighter 2 Cue Ball Wizard

Bonebusters Operation Thunder

Class Of 1812

#GOTSB93 - 1993 Sys.3 Tech Updates \$5.00 #GOTSB94 - GTB 1994 Service Bulletins\$5.00 #GOTSB95 - GTB 1995 Service Bulletins \$5.00

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This 36 page collection of 1995 service bulletins covers CAPCOM's pinball and video games. The topics covered are: PINBALL MAGIC CPU software version 1.01; 1.02; 1.03; 1.06, CPU LED Error code, orbit shot, mechanical coin meter, dot display, switch resistor removal hall falls into cabinet troubleshooting error messages, replay score level and PCB version compatibility. Also includes videogame topics: NIGHTWARRIORS manual corrections, Street Fighter the Movie pwr. supply voltage, part #'s, Marvel Super HEROS game features / maximizing revenues, and STREET FIGHTER ALPHA maximizing revenues.

#CAP95 - Capcom 1995 Bullitens \$6.95

1996 SERVICE BULLETINS

A 56 page compilation of service bulletins and technical information regarding: PINBALL MAGIC software revisions 1.0.8 & 1.0.9, power supply fuse F9; flipper strength adjustment; drop target revision, flipper EOS actuator revision, electronic systems compatibility, pinball ROM sizes and location chart, stage door plunger link modification, opto printed circuit boards, AIRBORNE software revisions 1.0.0, 1.1, 1.2, 1.3, 1.4, 1.6, left up/down ramp, Breakshot software revisions 2.0, intermittent slam-tilt on power up, power driver and power supply PCB mis-wiring, backbox thumb-screws, manual amendment, handrail lock compatibility chart, Big Bang Bar beta software rev. 1.5 & 1.6, Gooff Hoops display flicker.

#CAP96 - Capcom 1996 Bulletins \$7.95



The 12 page booklet contains schematic diagrams, diagnostic test instructions, switch identification codes, and hardware revisions for most ALLIED upright and cocktail table pinball machines, including:

Hoe Down Roy Clark Star Shooter Super Picker

#ALLP - Allied Leisure \$8.95



Measure the incline of your pinball machine on the playfield, not on the playfield glass. The pitch of the glass varies from game to game depending on the height of the features inside. The average tilt of a pinball machine is 6-1/2 degrees.



Rubber Rings

PinTip: Rubber Sunburn

Don't store your white rings under fluorescent lamps. The UV exposure turns them yellow over time.

(Rubber Ring Gauge

Simply cut on the dotted line, wrap around either the posts of your machine or the old ring (on the inside) to find out your ring size.

RUBBER RING KITS

Why waste time ripping your playfield apart, removing the old rubber, and measuring each ring? Order the Rubber Ring Kit for Your Machine! Specify machine name and manufacturer when ordering. Each kit includes, if applicable:

- Rubber rings
- •Rebound Rubber
- Post sleeves
- Post Sleeves
- Flipper rubbers
- Shooter Tip

#RK - Ring Kit (Specify Machine, Mfr) \$13.95 #RKD - Double Playfield/Wide Body \$17.95



Stern/

fax: 803-957-6974

WH	TE R	UBB	ER R	NGS

Marco #	Ring Size ID	Туре	Color	Bally #	Gottlieb #	Early Stern #	Williams #	Sega/DE#	Price
38-2364	23/64" or 3/8" OD	Mini-Post	White	R-206-11	A-14793	7A-125	23-6626	545-5025-19	\$.25
38-2764	27/64" or 7/16" OD	Mini-Post	White	R-521-11	A-15705	7A-135	23-6535	545-5025-17	.25
38-0316	3/16"	Steel Post	White	17-41-641			23-6641-1	545-5025-1	.25
38-0516	5/16"	Plastic Post	White	R-243	A-10217	7A-120-031	23-6300	545-5025-02	.25
38-0038	3/8"	Ring	White		A-10217		23-6591		.30
38-0716	7/16"	Ring	White		A-17493		23-6599	545-5025-18	.43
38-0034	3/4"	Ring	White	R-521	A-10218		23-6301	545-5025-04	.29
38-1000	1"	Ring	White	R-521-1	A-10219	7A-120-100	23-6302	545-5025-05	.29
38-1250	1 1/4"	Ring	White	R-521-1	A-10219	7A-120-125	23-6303	545-5025-06	.40
38-1500	1 1/2"	Ring	White	R-521-2	A-10220	7A-120-150	23-6304	545-5025-07	.45
38-2000	2"	Ring	White	R-521-3	A-10221	7A-120-200	23-6305	545-5025-08	.45
38-2500	2 1/2"	Ring	White	R-521-4	A-10222	7A-120-250	23-6306	545-5025-09	.49
38-2750	2 3/4"	Ring	White					545-5025-20	.49
38-3000	3"	Ring	White	R-521-5	A-10223	7A-120-300	23-6307	545-5025-10	.55
38-3500	3 1/2"	Ring	White	R-521-6	A-10224	7A-120-350	23-6308		.59
38-4000	4"	Ring	White	R-521-7	A-10225	7A-120-400	23-6309		.65
38-4500	4 1/2"	Ring	White	R-521-8	A-10226	7A-120-450	23-6530	545-5025-13	.99
38-5000	5"	Ring	White	R-521-9	A-10227	7A-120-500	23-6310		1.25
38-5500	5 1/2"	Ring	White	R-521-10	A-10228	7A-120-550			1.59
38-6000	6"	Ring	White	R-521-11	A-10229	7A-120-600			2.00

BLACK RUBBER RINGS

	Marco #	Ring Size ID	Туре	Color	Bally #	Gottlieb #	Early Stern #	Williams #	Stern/ Sega/DE#	Price
	38-2364B	23/64" or 3/8" OD	Mini-Post	Black					545-5348-19	\$.25
	38-2764B	27/64" or 7/16" OD	Mini-Post	Black				23-6694-1	545-5348-17	.25
	38-0316B	3/16"	Steel Post	Black				23-6641	545-5348-01	.25
	38-1564B	15/64"	Steel Post	Black				23-6694-2		.49
	38-0516B	5/16"	Ring	Black				23-6694-3	545-5348-02	.25
	38-0038B	3/8"	Ring	Black					545-5348-03	.30
	38-0716B	7/16"	Ring	Black				23-6694-4	545-5348-18	.43
ĺ	38-0034B	3/4"	Ring	Black				23-6694-5	545-5348-04	.29
	38-1000B	1"	Ring	Black				23-6694-6	545-5348-05	.29
	38-1250B	1-1/4"	Ring	Black				23-6694-7	545-5348-06	.40
	38-1500B	1-1/2"	Ring	Black		A-10220Y		23-6694-8	545-5348-07	.45
	38-1750B	1-3/4"	Ring	Black					545-5348-21	.99
	38-2000B	2"	Ring	Black				23-6694-9	545-5348-08	.45
	38-2500B	2-1/2"	Ring	Black		A-10222Y		23-6694-10	545-5348-09	.49
	38-2750B	2-3/4"	Ring	Black					545-5348-20	.49
	38-3000B	3"	Ring	Black				23-6694-11	545-5348-10	.55
	38-3500B	3-1/2"	Ring	Black				23-6694-12	545-5348-11	.59
	38-4000B	4"	Ring	Black				23-6694-13	545-5348-12	.65
	38-4500B	4-1/2"	Ring	Black				26-6694-14	545-5348-13	.99
	38-5000B	5"	Ring	Black				26-6694-15	545-5348-14	1.25

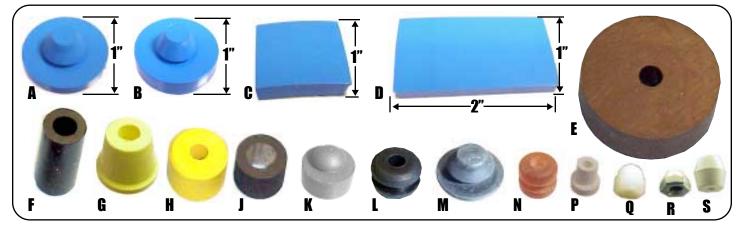
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Rubber Rings

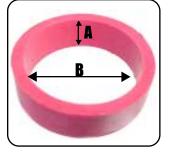




MISCELLANEOUS RUBBER

Fig A	Marco # 38-6702	Description Round 1" bumper pad thin	Color Blue	Bally #	Gottlieb #	Early Stern #	Williams # 23-6702	Stern/ Sega/DE#	Price 1.25
В	38-6686	Round 1" bumper pad thick	Blue				23-6686		1.25
С	38-6629	Square adhesive back bumper pad	Blue				23-6629		1.75
D	38-6674	1" x 2" Rect adhesive bumper pad	Blue				23-6674		6.00
	38-115-4	Rebound Rubber, 1-1/4" O.D.	White	R-115-4					1.60
E	38-1344	Rebound Rubber, 1-1/2" O.D.	Brown		A-1344	7A-113			1.60
F	38-6552	7/8" tall Post Sleeve	Yellow		A-26648Y		23-6552		.60
F	38-6552-1	7/8" tall Post Sleeve	Black				23-6552-1	545-5009-00	.60
F	38-6556	1-1/16" tall Post Sleeve	Black				23-6556	545-5260-00	.50
G	38-6579-1	Tapered Rubber	Black				23-6579-1		1.40
G	38-6579	Tapered Rubber	Yellow				23-6579		1.50
Н	38-6551	Rubber Bumper	Yellow				23-6551		1.75
J	38-5151	3/8" ID Bumper	Black					545-5151-00	1.00
K	38-6313-1	Grommet plug	Black				23-6313-1	545-5105-00	.25
L	38-111-39	Bally Chime Grommet	Black	R-111-39					.80
M	38-6577	Bumper Plug	Black				23-6577		.50
N	38-6420	Grommet	Amber				23-6420		.25
Р	38-6425	T-Rubber	White				23-6425		.25
Q	38-6543N	Nylon Post Cap	White						.30
R	38-6543C	Chrome Post Cap	Chrome						.45
S	38-6543	Post Cap	White	R-412	E-15		23-6543		.30

FLIPPER RINGS & SHOOTER TIPS





803-957-5500

Marco #	Dim A	Dim B	Туре	Color	Bally #	Gottlieb #	Stern #	Williams #	Sega/DE#	Price
38-6519-4	1/2"	1-1/2"	Standard	Red	R-406-3; R-533-3	A-13151	7A-121-R	23-6519-4		1.05
38-6519-6	1/2"	1-1/2"	Standard	Yellow	R-521-11		7A-121-Y	23-6519-6	545-5277-06	1.15
38-6695	1/2"	1-1/2"	Standard	Black		28546		23-6695	545-5277-00	1.05
38-6553-4	1/2"	1"	Small	Red		A-13149	7A-142	23-6553-4		1.00
38-6553-6	1/2"	1"	Small	Yellow				23-6553-6	545-5207-00	1.00
38-122B	1/2"	1"	Small	Black						1.00
38-10801	3/8"	1-1/2"	Gottlieb	Yellow		A-13151				1.00
38-10802	3/8"	1-1/2"	Gottlieb	Red		A-13151				1.00

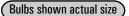
						Stern/	
Marco #	Color	Bally #	Gottlieb #	Early Stern #	Williams #	Sega/DE#	Price
38-1100	Brown	R-108-4				545-5027	.49
38-1100B	Black				23-6327	545-5276-00	.49
38-1100W	White						.49
38-1100T	Tan						.49

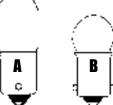
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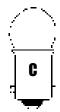


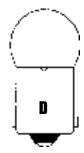
Light Bulbs

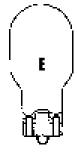
MINIATURE LAMPS













- Exact replacements
- Packaged 10 to a box











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ltem #	Bulb	Fig	Volts	Base	Price/10	Price/100
04-0012	#12	Α	6.3	2-Prong	\$18.70	\$168.30
04-0019	#19	В	14.4	2-Prong	19.00	171.00
04-0037	#37	1	14.0	Wedge	5.70	51.30
04-0040	#40	J	6.3	Screw	4.70	42.30
04-0044	#44	Α	6.3	Bayonet	3.00	\$15.00
04-0046	#46	J	6.3	Screw	4.40	39.60
04-0047	#47	Α	6.3	Bayonet	3.00	\$15.00
04-0050	#50	В	7.5	Bayonet	4.40	39.60
04-0051	#51	В	7.5	Bayonet	3.40	30.60
04-0052	#52	В	14.4	Bayonet	4.80	43.20
04-0053	#53	В	14.4	Bayonet	4.40	39.60
04-0055	#55	С	7	Bayonet	4.30	38.70
04-0057	#57	В	14	Bayonet	4.50	40.50
04-0063	#63	D	7	Med. Bayonet	4.50	40.50
04-0067	#67	D	13.5	Med. Bayonet	4.10	36.90
04-0073	#73	I	14	Sub Mini Wedge	5.70	51.30
04-0074	#74	I	14	Sub Mini Wedge	7.00	63.00
04-0081	#81	D	6.5	Med. Bayonet	6.00	54.00
04-0086	#86	I	6.3	Sub Mini Wedge	4.20	37.80
04-0088	#88	-	6.8	D.C. Bayonet	5.70	51.30
04-0089	#89	D	13	Med. Bayonet	5.30	47.70
04-0130	#130	В	6.3	Bayonet	5.40	50.00
04-0147	#147	Α	7.0	Bayonet	5.60	50.40
04-0158	#158	F	14	Wedge	4.00	36.00
04-0159	#159	F	6.3	Wedge	3.00	27.00
04-0161	#161	F	14	Wedge	4.60	41.40
04-0168	#168	F	14	Wedge	4.60	41.40
04-0192	#192	F	13	Wedge	5.40	48.60
04-0193	#193	F	14	Wedge	6.50	58.50
04-0194	#194	F	14	Wedge	3.90	35.10
	1					

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ltem #	Bulb	Fig	Volts	Base	Price/10	Price/100
04-0222	#222	-	2.25	Screw	4.80	43.20
04-0257	#257	В	14	Bayonet	6.20	55.80
04-0259	#259	F	6.3	Wedge	4.50	40.50
04-0303	#303	D	28	Med. Bayonet	9.10	81.90
04-0313	#313	Α	28	Bayonet	5.40	48.60
04-0455	#455	В	6.3	Bayonet	7.00	63.00
04-0555	#555	F	6.3	Wedge	3.00	15.00
04-0585	#585	F	28	Wedge	5.50	49.50
04-0656	#656	F	28	Wedge	5.50	49.50
04-0657	#657	F	28	Wedge	6.40	57.60
04-0658	#658	-	14	Wedge	5.50	49.50
04-0755	#755	Α	6.3	Bayonet	6.70	60.30
04-0756	#756	Α	14.0	Bayonet	6.70	60.30
04-0757	#757	Α	28.0	Bayonet	6.70	60.30
04-0906	#906	E	13	Wedge	4.90	44.10
04-0912	#912	E	12.8	Wedge	4.70	42.30
04-1129	#1129	-	6.4	Med. Bayonet	9.50	85.50
04-1251	#1251	D	28	Med. Bayonet	5.60	50.40
04-1449	#1449	J	14.0	Bayonet	4.40	39.60
04-1683	#1683	-	28	Med. Bayonet	11.20	100.80
04-1813	#1813	Α	14.4	Bayonet	5.70	51.30
04-1843	#1843	Α		Bayonet	13.00	117.00
04-1847	#1847	Α	6.3	Bayonet	4.40	39.60
04-1891	#1891	Α	14.0	Bayonet	5.10	45.90
04-1892	#1892	Α	14.4	Bayonet	5.30	47.70
04-1895	#1895	С	14.0	Bayonet	4.70	42.30
04-2181	#2181	Н	6.3	Wire terminal	4.60	41.40
04-2182	#2182	Н	14	Wire terminal	4.80	43.20
04-7373	#7373	G	14.0	Bi-pin terminal	10.40	93.60
04-7381	#7381	G	6	Bi-pin terminal	9.40	84.60

SPECIAL

100 bulbs: \$15!

Your choice of: #44, #47, or #555 lamps! Mix or Match.



10/\$5! Mix or Match.

BULB CAPS

Item # **Description** Price 03-8063-1 Blue Bulb Cap \$0.60 03-8063-2 Green Bulb Cap .60 03-8063-4 Red Bulb Cap .60 03-8063-5 White Bulb Cap .60 03-8063-6 Yellow Bulb Cap .60

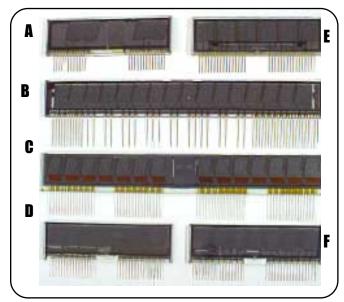
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Displays



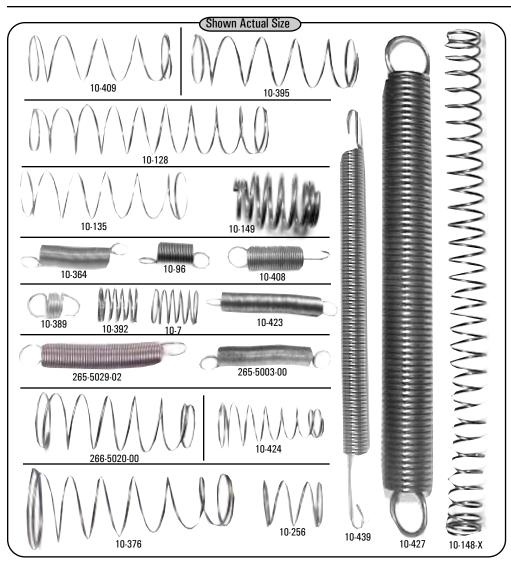


PLASMA DISPLAYS



We have limited quantities of **Gottlieb fluorescent** displays in stock! Call for availability.

F	ig Item#	Description	Price
	A DIS4	4-digit (WMS Match/Credit display)	\$25.75
	B DIS16	16-digit alphanumeric glass	45.00
	C DIS14	14-digit numberic glass	45.00
	C DIS14A	14-character alpha-numeric glass	45.00
	D DIS7	7-digit numeric glass	25.95
	E DIS6	6-digit numeric glass	25.95
	F DIS7A	7-character alphanumeric glass	38.95
	G DMM32	128x32 dot matrix display MODULE (FREE shipping!)	159.95
	- DMM64	192x64 Sega dot matrix display MODULE (FREE shipping!)	299.95



SPRINGS

ltem #	Description	Price
10-7	Pop bumper switch	.75
10-96	Extension spring	1.50
10-128	Compression spring	.75
10-135	Pop bumper spring	.75
10-148-2	Shooter, red, .042" - Highest tension	.95
10-148-3	Shooter, blue, .038" - High	.95
10-148-1	Shooter, silver, .035" - Med-high tension (Universal)	.95
10-148-4	Shooter, green, .033" - Med. tension	.95
10-148	Shooter, black, .031" - Low	.95
10-148-7	Shooter, white, .028" - Med-low Tension	.95
10-148-6	Shooter, brown, .026" - Lowest Tension	.95
10-149	Ball shooter outer spring	.75
10-257	Compression spring	.75
10-364	Extension spring	.75
10-376	Flipper return spring	.75
10-389	Solenoid plunger spring	.75
10-392	Compression spring	.75
10-395	Compression	1.00
10-408	Extension spring	.75
10-409	Flipper Return Spring	.75
10-423	Extension	.75
10-424	Compression	1.00
10-427	Extension spring	1.50
10-439	Extension spring	1.50
27-1039	Compression	.75
27-10-404	Compression	.75
265-5003-00		.75
266-5020-00		.75
265-5029-02	Extension spring	.75

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Restoration Supplies

Put the finishing touch on your restoration and do your game a real favor with a NEW ball. Using an old one with tiny scratches in it is like rubbing sandpaper on your playfield!

Juliupupul	on your piu	y noiu.		
ltem #	Size	Description	Price/1	Price/3
PB118	1-1/8"	Bingo Ball	\$2.50	6.00
PB116	1-1/16"	Standard Pinball	2.00	5.00
PB1	1"	Game-specific	2.00	-
PB1516	15/16"	Roll-tilt ball	2.00	-
PB78	7/8"	Roll-tilt	2.00	-
PB58	5/8"	Baseball machine ball	2.00	-



PINBALL POLISHES & CLEANERS



A) Wildcat No. 125 Polish: This classic cleaner/polish is recommended by Bally for use on any playfield to remove stubborn dirt and grime. 16oz. B) Wildcat TR-60: Great for getting off stubborn adheidsives, including residue left behind by Mylar shields. 16 oz. bottle.

C) Wildcat RC-88: Works well for cleaning and restoring rubber parts. 16. oz. bottle.

Fig Item #	Description	Price
A W125	Wildcat #125 Playfield cleaner, 16oz.	\$7.95
B TR60	Wildcat TR-60 Tape remover, 16oz.	7.95
C RC88	Wildcat RC-88 Rubber cleaner, 16oz.	7.95

S PLASTIC POLISH

A) NOVUS Plastic Polish #1:

8 oz bottle. Novus #1 is specially formulated to gently clean all plastics without scratching. It leaves a lustrous shine that repels dust, eliminates static, and resists fogging. It also helps protect against smudging and scratching.

B) NOVUS Plastic Polish #2:

8 oz. bottle. Plnball techs consider this a shop staple. Has outstanding abiltiy to clean and shine as well as remove fine scratches, haziness, and abrasion from most plastic surfaces. It is also an excellent one-step playfield polish and cleaner. Recommended by major machine manufacturers!

C) Novus Plastic Polish #3

8 oz. bottle. For heavy scratch removal on acrylic surfaces, Novus has

formulated this excellent compound designed to be used with Novus #2 or #1 as a finishing application.

Fig Item #	Description	Price
A NOVUS1-8	Novus 8 oz. plastic cleaner #1	\$3.89
B NOVUS2-8	Novus 8 oz. fine scratch remover/playfield polish #2	4.95
C NOVUS3-8	Novus 8 oz. heavy scratch remover #3	5.45





A) Krylon Triple Thick Crystal Clear Acrylic Spray: This Triple Thick spray goes down 3 times thicker than competitive sprays. We recommend a gentle, spray coating of KRYLON to stop artwork deterioration on backglasses. It can soften and re-adhere flaking paint in many instances.

B-E) Krylon Webbing Spray: These webbing sprays come in four colors: Black, White, Gold, and Silver. They're a favorite for cabinet restoration, especially on old EM's.

Fig	ltem #	Description	Price
Α	KCA	Krylon clear spray	\$5.95
В	SPWB	Webbing spray, Black	4.95
С	SPWW	Webbing spray, White	4.95
D	SPWG	Webbing spray, Gold	4.95
Ε	SPWS	Webbing spray, Silver	4.95

NEVR-DULL POLISH

The choice of professionals for cleaning, polishing, rust and corrosion removal from all metals including silver, gold, brass. chrome, steel, aluminum. The 5 oz. can is packed with famous the "MAGIC WAD-DING POLISH" and works wonders on



playfield and cabinet parts, electrical contacts.

#NRD - Nevr-Dull Polish \$4.95



For safety's sake, use only tempered glass to replace your playfield glass. It resists ball impacts up to 10 times better than plate glass and won't break into dangerous shards when cracked. You can get it from your local glass store. A standard playfield glass is 21" x 43" x 1/4".

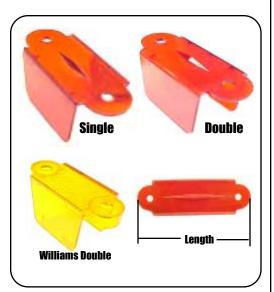
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Playfield Parts



LANE GUIDES



ltem #	Color	Style	Length	Price
PG13	Yellow, Opaque	Single	2 1/8"	\$1.50
PG18	White	Single	2 1/8"	1.50
PG21	Red, Opaque	Single	2 3/4"	1.50
PG22	Red, Trans.	Single	2 3/4"	1.50
PG23	Yellow, Opaque	Single	2 3/4"	1.50
PG26	Blue, Trans.	Single	2 3/4"	1.50
PG28	White	Single	2 3/4"	1.50
PG31	Red, Opaque	Single	3 1/8"	1.50
PG32	Red, Trans.	Single	3 1/8"	1.50
PG33	Yellow, Opaque	Single	3 1/8"	1.50
PG39	Clear	Single	3 1/8"	1.50
PG41	Red, Opaque	Double	2 1/8"	1.50
PG48	White	Double	2 1/8"	1.50
PG51	Red, Opaque	Double	2 3/4"	1.50
PG52	Red, Trans.	Double	2 3/4"	1.50
PG53	Yellow, Opaque	Double	2 3/4"	1.50
PG56	Blue, Trans.	Double	2 3/4"	1.50
PG58	White	Double	2 3/4"	1.50
PG61	Red, Opaque	Double	3 1/8"	1.50
PG63	Yellow, Opaque	Double	3 1/8"	1.50
PG68	White	Double	3 1/8"	1.50
03-8318-9	Red, Trans.	WMS Dble	1 3/4"	1.50
03-8318-12	Orange, Trans.	WMS Dble	1 3/4"	1.50
03-8318-16	Yellow, Trans.	WMS Dble	1 3/4"	1.50

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PLASTIC POSTS

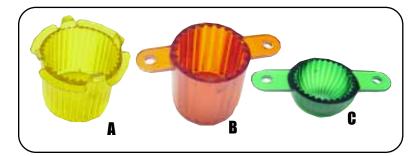


_	. Part #	Color		Post Style	Height	Price
Α		Black		Double Star	1 1/16"	\$.80
Α	03-8247-8		Amber	Double Star	1 1/16"	.80
Α		Trans.		Double Star	1 1/16"	.80
Α	03-8247-10	Trans.	Blue	Double Star	1 1/16"	.80
Α	03-8247-12	Trans.	Orange	Double Star	1 1/16"	.80
Α	03-8247-13	Clear		Double Star	1 1/16"	.80
Α	03-8247-18	Trans.	Violet	Double Star	1 1/16"	.80
Α	03-8247-25	Trans.	Teal	Double Star	1 1/16"	.80
Α	03-8247-30	Trans.	Lt. Blue	Double Star	1 1/16"	.80
В	03-8130-9	Trans.	Red	Tall Dble. Star	1 1/2"	.80
В	03-8130-13	Clear		Tall Dble. Star	1 1/2"	.80
C	03-8319-8	Trans.	Amber	Star	1 1/16"	.80
C	03-8319-9	Trans.	Red	Star	1 1/16"	.80
C	03-8319-10	Trans.	Blue	Star	1 1/16"	.80
C	03-8319-12	Trans.	Orange	Star	1 1/16"	.80
C	03-8319-13	Clear		Star	1 1/16"	.80
C	03-8319-16	Trans.	Yellow	Star	1 1/16"	.80
C	03-8319-18	Trans.	Violet	Star	1 1/16"	.80
C	03-8319-25	Trans.	Teal	Star	1 1/16"	.80
C	03-8319-30	Trans.	Lt. Blue	Star	1 1/16"	.80
D	03-8370-7	Opq. B	lack	Star	1 1/4"	.80
D	03-8370-10	Trans.	Blue	Star	1 1/4"	.80
E	03-8365-8	Trans.	Amber	Narrow	1 1/4"	.80
Ε	03-8365-9	Trans.	Red	Narrow	1 1/4"	.80
E	03-8365-10	Trans.	Blue	Narrow	1 1/4"	.80
Е	03-8365-13	Clear		Narrow	1 1/4"	.80
Ε	03-8365-16		Yellow	Narrow	1 1/4"	.80
Е	03-8365-18	Trans.		Narrow	1 1/4"	.80
E	03-8365-30	Trans.	Lt. Blue	Narrow	1 1/4"	.80
F	03-8044-9	Trans.	Red	Mini Plastic Post	1"	.80
F	03-8044-13	Trans.	Clear	Mini Plastic Post	1"	.80
G	3A-7240	Opaque	Red	Smooth	1"	.80
J	C-11561	Opaque	. White	Facet	1""	.80
K	C-11562	Opaque	. White	Facet	1 1/4""	.80









PLASTIC LIGHT DOMES

These translucent light domes, which normally house flasher bulbs are availabe in: Red, Amber, Yellow, Violet, Green, Orange, Blue, and clear.

Fig Item #	Description	Price
A 03-8171-XX	Twist lock dome, specify color	\$2.00
B 03-8149-XX	Tab dome, specifiy color	2.00
C 03-8662-XX	Tab mini-dome, specifiy color	2.00

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Playfield Parts

MINI BAYONET SOCKETS

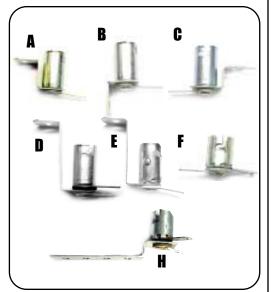


Fig	Item #	Price	Price/10
Α	E-120-81	\$0.89	\$7.00
В	E-120-99	0.89	7.00
С	E-120-84	0.89	7.00
D	E-120-162	0.89	7.00
E	E-120-127	0.89	7.00
F	E-120-176	0.89	7.00
Н	LSU	0.89	7.00

MED. BAYONET SOCKETS



Fig	Item #	Price	Price/10
J	077-5102-00	\$1.50	\$12.00
K	077-5100-00	1.50	12.00
L	077-5107-00	1.50	12.00
M	077-5101-00	1.50	12.00
N	A-15856	1.50	12.00
Р	077-5103-00	1.50	12.00

METAL POSTS



Fig	ltem #	Post Type	Price
Α	02-3905	Mini-post, wood screw	\$2.50
В	02-4177	Mini-post 8-32 thread	2.50
В	02-4195	Mini-post 6-32 thread	2.50
С	02-4003	Mini-post, 8-32 thread	2.50
C	02-4660	Mini-post, 10-32 thread	2.50
Ε	02-9899	6-32 x 2" machine thread stud	.75
F	02-3648	6-32 x 1-29/32" post stud	.75
G	02-4436-17	WMS post	1.25
Н	02-4611-1	WMS post	1.25
J	02-4658	WMS post 10-32 thread	1.00
K	02-4423	WMS post 8-32 thread	1.00
L	02-4679	WMS post	1.00
M	02-4765-11	WMS post	1.00
N	02-4974-1	WMS post	1.00
0	02-5079-5	WMS post	1.00
Р	02-4436-7	WMS post	1.00

SCREWS



Fig	ltem #	Thread	Head	Usage	Price
M	05934	8-32	Phillips	circuit board	\$0.15
N	69084	1/4-28	Hex	set screw	.15
0	21980	10-32	Hex	coil bracket	.20
P	06564	10-32	Hex	coil bracket w/ nylock	.25
R	08520	6-32	Phillips	lock washer	.20

WEDGE SOCKETS



_			
Fig	Item #	Price	Price/10
0	24-8776	\$0.89	\$7.00
R	24-8767	0.89	7.00
S	24-8812	0.89	7.00
Τ	24-8818	1.00	9.00
U	077-5026-00	1.50	12.00
W	077-5029-00	1.50	12.00
Χ	077-5206-00	1.50	12.00
Υ	077-5207-00	1.50	12.00
Z	077-5016-00	1.50	12.00

T-NUTS

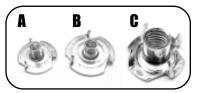


Fig	ltem #	Thread	Price
Α	TNUT632	6-32	0.25
В	TNUT832	8-32	0.25
C	TNUT3816	3/8-16	0.75

Reamed Holes

Tooth picks & wood glue are a good fix for playfield post holes that have been reamed out. For permanent repair of a worn post hole, drill the hole all the way through and install a machine thread stud and T-nut.

fax: 803-957-6974

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Flipper Parts



Bally EARLY STYLE

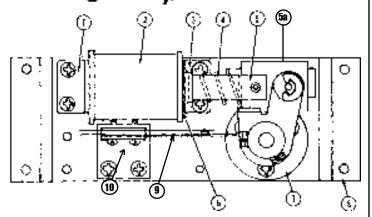


Fig Item #	Description	Price
1 A-613-67	Coil Stop	\$3.00
2 Specify Coil #	Flipper Coil	10.95
3 P-108-53	Coil Bracket	CALL
4 SP-200-185	Return spring	.75
5 A-3714-1	Plunger/link assy.	6.00
5a 0370-112	Link Only	CALL
6 P-1158-6	Spring washer	1.50
7 C-649-53	Shaft bushing	1.50
8 P-6264-134	Mounting plate	CALL
9 ASW-A20-23	End of Stroke Switch	4.50
10 P-126-718	EOS Switch Bracket	CALL

Bally LATE STYLE

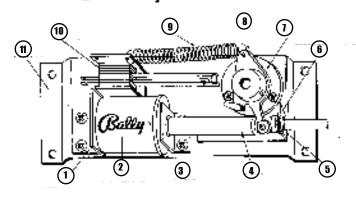


Fig	Item #	Description	Price
1	A-613-115	Coil stop	\$3.00
2	SPECIFY COIL NUM	Coil	10.95
3	P-108-52	Coil bracket	CALL
4	S-496-217	Plunger	CALL
5	C-537-8	Plunger nyliner	.75
6	P-6685-636	Stop bracket	CALL
7	C-649-53	Shaft bushing	CALL
8	A-3711-4	Crank (specify left or right)	9.00
9	SP-110-363	Flipper return spring	.75
10	ASE-982-1295	End-of-stroke switch	4.00
11	P-6264-134	Assy. mounting plate	CALL

Williams EARLY STYLE

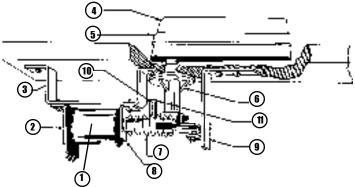


Fig	Item #	Description	Price
1	Specify Coil #	Coil	\$10.95
2	A-8143	Coil stop	CALL
3	01-600	Coil mounting bracket	CALL
4	03-7253	Plastic bat	2.00
5	38-6519-4	Rubber ring	1.05
6	03-6014	Shaft bushing	CALL
7	10-135	Return spring	.75
8	01-8-508-3	Coil mounting plate	CALL
9	01-3203	Plunger stop bracket	CALL
10	03-7811A	End-of-Stroke switch	4.00
11	A-4962L (or R)	Flipper cam	5.00

Williams LATE STYLE

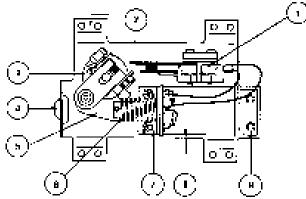


Fig	Part #	Description	Price
1	SW1A194	End of Stroke switch	\$4.50
2	B-13104-R	Flipper mounting plate	10.95
3	03-7568	Flipper shaft bushing	1.50
4	38-6577	Bumper Plug	.50
5	B-10655 R (or L)	Crank Link Assembly	9.95
5a	B-13884-R (or L)	Flipper Crank Assembly	3.00
5b	A-10656	Flipper Link Assembly	3.00
6	10-376	Flipper return spring	.75
7	01-7695	Coil Bracket	2.00
8	Coil #	Coil	10.95
9	A-12111	Coil stop	3.00



Flipper Parts

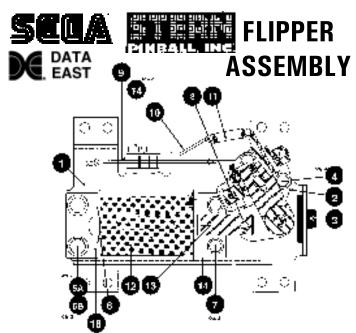


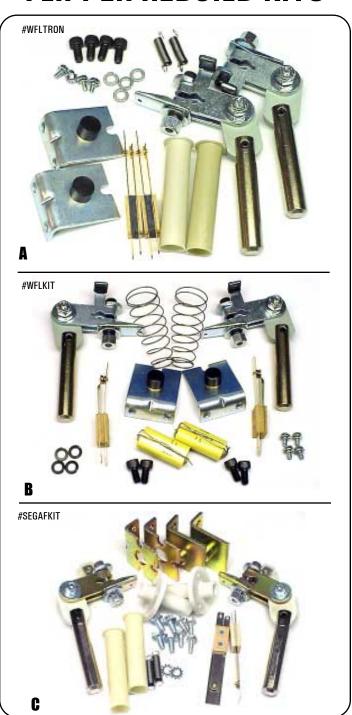
Fig Part #	Description	Price
1 515-6617-00	Flipper Base Plate - Right	\$9.95
515-6617-01	Flipper Base Plate - Left	9.95
2 545-5594-00	Flipper Bushing	1.95
3 545-5428-00	Bumper	.75
4	#6-32 x .38" Screw	.25
5a	#10-32 x .38" Screw	.25
5b	#10 Lock Washer	.25
6	Spring Washer	.25
7	#8-32 x .38 Screw	.25
8 515-6518-00	Plunger, Link & Pawl Sub-Assy (R)	9.95
515-6518-01	Plunger, Link & Pawl Sub-Assy (L)	9.95
9 180-5149-00	End-of-stroke Switch	2.95
10 535-7354-01	Switch Plate	.35
11 265-5035-00	Flipper Return Spring	.45
12 Specify Coil #	Coil	10.95
13 545-5388-00	Coil Sleeve	.65
14 535-7356-00	Coil Support Bracket	.60
16 515-6308-01	Coil Stop	3.25

Adjust leaf blade switches so that they have a 'wiping' action when they close and open. This technique extends contact point life with a self-cleaning action. Use switch adjusting tools for more precise adjust-



For a cheap way to add zip back to your solenoids, replace the coil sleeves (Page 24). Dirty sleeves are the most common cause for sluggish coils.

FLIPPER REBUILD KITS



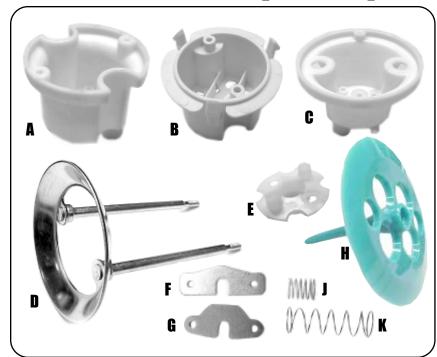
These all-new flipper parts kits are the answer for sticky sluggish, weak flippers. #WFLTRON is for newer WMS/Bally machines with Fliptronic® flippers. #WFLKIT repairs earlier (Pre-1991) Williams machines (note the presence of the spark-surpressing capacitor). #SEGAFKIT is for Sega, Data East and post-2000 Stern machines.

Fig Part #	Description	Price
A WFLTRON	WMS Fliptronic Flipper Rebuild Kit	\$29.95
B WFLKIT	WMS Old style flipper rebuild kit	29.95
C SEGAFKIT	SEGA/Stern/D.E. flipper rebuild kit	29.95

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Pop Bumper Parts

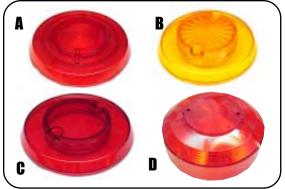




POP BUMPER PARTS

_	-		
Fig	.Part #	Description	Price
Α	03-7443-5	WMS Pop Bumper Body	2.50
В	C-470-5	Bly Pop Bumper Snap-on cap style	3.00
C	C-114-3	Bly Pop Bumper Body	\$2.00
D	A-4754	Ring & Rod Assy (60-1705)	4.00
Ε	C-115-1	Bumper Base (WMS #03-6009-A5)	2.00
F	01-5492	Metal Yoke (Part #A5492)	1.00
G	01-5493	Fiber Yoke (Part #A5493)	1.00
Н	03-6035-1	Blue Bumper Skirt	2.00 3/\$5
Н	03-6035-3	Violet Bumper Skirt	2.00 3/\$5
Н	03-6035-4	Red Bumper Skirt	2.00 3/\$5
Н	03-6035-5	White Bumper Skirt	2.00 3/\$5
Н	03-6035-6	Yellow Bumper Skirt	2.00 3/\$5
Н	03-6035-7	Black Bumper Skirt	2.00 3/\$5
Н	03-6035-15	Orange-Red Bumper Skirt	2.00 3/\$5
Н	03-6035-G	Green Bumper Skirt	2.00 3/\$5
Н	03-6035-T	Teal Bumper Skirt	2.00 3/\$5
J	10-7	Skirt Spring (GTB #A-10430)	.75
K	10-135	Pop Bumper Spring	.75

BUMPER CAPS



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Fig I	Part #	Color	Cap Style	Price
Α (GPBC-10	Trans. Blue	Grooved	\$4.00
Α (GPBC-9	Trans. Red	Grooved	4.00
Α (GPBC-16	Trans. Yellow	Grooved	4.00
В	03-9007-12	Trans. Orange	Starburst	4.00
C	03-8254-8	Trans. Amber	Plain	4.00
C	03-8254-9	Trans. Red	Plain	4.00
C	03-8254-10	Trans. Blue	Plain	4.00
C	03-8254-12	Trans. Orange	Plain	4.00
C	03-8254-13	Clear	Plain	4.00
C	03-8254-16	Trans. Yellow	Plain	4.00
C	03-8254-18	Trans. Violet	Plain	4.00
C	03-8254-25	Trans. Teal	Plain	4.00
C	03-8254-28	Tr. Org-Gold	Plain	4.00
D !	545-5199-02	Tr Red	Sega	4.00
- (03-8291-16	Tr Yellow	Wide Edge	4.00
- (03-7444-16	Opaque Yellow		4.00
- (03-7444-9	Opaque Red		4.00
- (03-7444-W	Onaque White		4.00

FLIPPERS & BATS

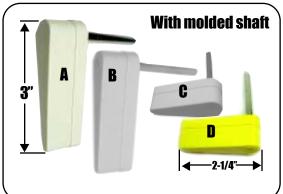
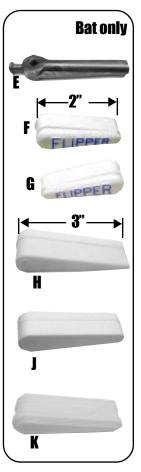


Fig Part #	Description	Price
A 545-5133-01	Sega/Stern/D.E Flipper+shaft white	3.00
B 20-10110-15	WMS/BLY Flipper + Shaft Orange	\$3.00
B 20-10110-7	WMS/BLY Flipper + Shaft Black	3.00
B 20-10110-5	WMS/BLY Flipper + Shaft White	3.00
B 20-9250-5	WMS/BLY Flipper+Shaft Off-White	3.00
B 20-10110-6	WMS Flipper + Shaft Yellow	3.00
- 20-9734-5	WMS Flipper + Shaft Lightning Bolt	4.00
C 20-9132-5	WMS 2" Flipper+shaft	3.00
D 20-10290-6	WMS 2.25" Flipper + Shaft Yellow	3.50
E 03-8516	WMS Slugfest baseball bat	6.00
F C-609-5	BLY 'Flipper' 2" flipper bat L	5.00
G C-610-5	BLY 'Flipper' 2" flipper bat R	5.00
H 03-7253	WMS Flipper Bat	2.50
J C-611-5	BLY Flipper Bat	2.50
K C-13150	GTB Flipper Bat	2.50
- A3994-8	Black Flipper + Shaft	3.00
- A3994-8GR	Trans. Green Flipper + Shaft	3.00





Coils and Sleev

There are hundreds of varieties of coils used in pinball machines. We carry nearly all of them. If we don't have the coil you need, we can get it. All coils come with new sleeves where applicable. Below are some of the more common coils used in machines that we have in stock:

<u>Coil</u>	Type	<u>Coil</u>	Type	<u>Coil</u>	Type
Gottlieb		Bally		B126-800	Single
A-1496	Single	AQ25-500/34-4500	Dual	SFL23-600/30-2600	Dual
A-4893	Single	AQ25-500/34-5050	Dual	FL20-300/28-400	Dual
A-5141	Single	AN26-1200	Single	SA/SG23-850	Single
A-5143	Single	G32-2500	Single	SA23-900	Single
A-5194	Single	B26-1100	Single	FL21-375/28-400	Dual
A-5195	Single	Williams		Z28-1150/1200/1250	Dual
A-9742	Relay	A22-550	Single	FL11629	Dual
A-9746	Relay	SA23-750DC	Single	FL11630	Dual
A-19300	Single	SG23-750	Single	FL11722	Dual
A-16570	Single	AE23-800-XX	Single	FL11753	Dual
A-18102	Single	A-226-1025	Single	FL15411	Dual
A-25959	Single	SFL-20-300/30-00	Dual		

Great Coil Prices! \$6.95 **Dual-Wound Flipper Coils:** \$10.95

ARMATURES

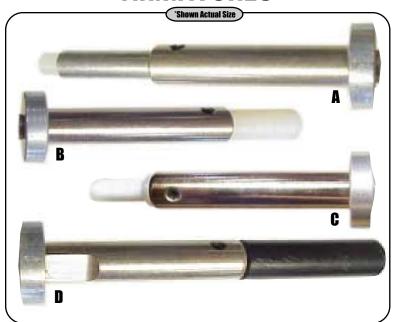
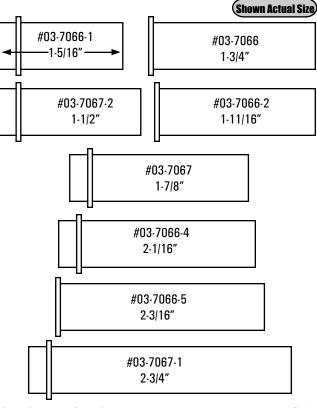


Fig Item #	Description	Price
- 04-10019	Armature Assy	\$12.00
- 04-10291	Armature & Extension Assy.	11.00
A A-6306-2	Kickback Plunger Armature	7.00
- A-11139	Armature Assy.	12.00
- A-11336	WMS Armature Assy.	10.00
- A-11516	Armature Assy.	6.00
B A-15370	Plunger Assy. (Addams Family)	6.00
C A-15371	WMS Armature	5.00
- A-15580	Ball Popper Armature Assy.	9.00
D A-17767	Pop-up Armature	6.00
- A-17768	Armature & Extension assy.	6.00
- A-17986	Bell Armature Assy.	11.00
- A-19640	Armature & Extension assy.	6.00

COIL SLEEVES

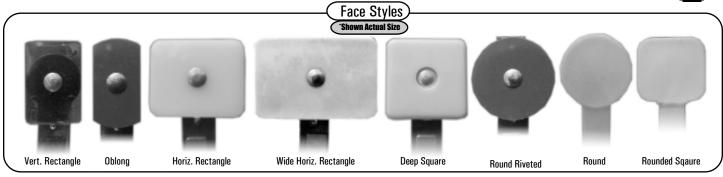


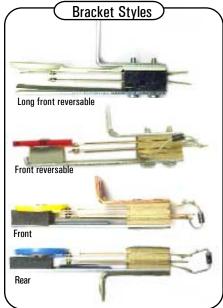
ltem #	Length	Price
03-7066-1	1-5/16"	\$0.75
03-7067-2	1-1/2"	.75
03-7066-2	1-11/16"	.75
03-7066	1-3/4"	.75
03-7067	1-7/8"	.75
03-7066-4	2-1/16"	.75
03-7066-5	2-3/16"	.75
03-7067-1	2-3/4"	.75

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Switches







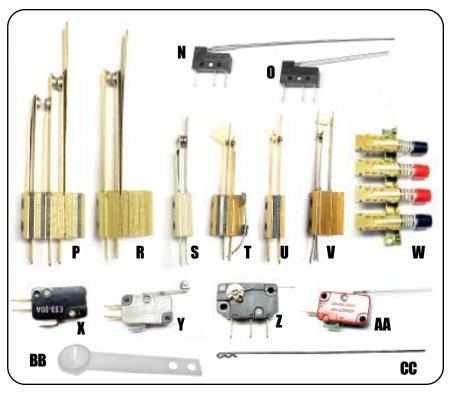
All targets are \$6.00

ltem #	Face	Bracket	Color
A-9999-4	R. Rivet	Front	Tr. Red
A-9999-1	R. Rivet	Front	Tr. Blue
A-14604-11	V. Rect	Front	Tr. Green
A-14604-20	V. Rect	Front	Orange
A-14690-6	R. Rivet	Rear	Yellow
A-15658-2	Oblong	Front	Green
A-16816-4	Oblong	Rear	Red
A-17799-6	R. Rivet	Front	Yellow
A-18018-21	Deep Square	Front	Green
A-18059-15	W. H. Rect	Front	Orange
A-18530-1	Oblong	Front	Blue
A-18530-6	Oblong	Front	Yellow
A-18605-1	R. Rivet	Front	Blue
A-18605-2	R. Rivet	Front	Green
A-18605-4	R. Rivet	Front	Red
A-18605-5	R. Rivet	Front	White
A-18605-6	R. Rivet	Front	Yellow

		T U	UU
Item #	Face	Bracket	Color
A-18605-15	R. Rivet	Front	Orange
A-20014-5	Oblong	Rear	White
A-21349-1	R. Rivet	Rear	Blue
15-4482	V. Rect	F. Rev	Tr. Red
15-4483	V. Rect	F. Reve	Tr. Blue
99-SUTCW	Round	L. Fr. Rev.	White
99-SUTSY	Round Sq.	Front Rev.	Yellow
B-14060-9	Deep Square	Front	Tr. Red
SW-1A-161-2P	Horiz. Rect.		White
SW-1A-174-1	Horiz. Rect.		Blue
SW-1A-184-19P	Deep Square		Yellow
SW-1A-184-21-P	Deep Sqaure		Green
515-5934-02	Deep Sqaure		Red
515-5934-01	Deep Square		Clear
500-5321-06	W. H. Rect.	Front	Yellow
515-5934-03	Deep Square	Front	Tr. Yellow

SWITCHES

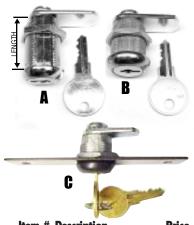
Fig	Part #	Description	Price
N	12-SMSW	Wire Sub-Micro	1.95
0	12-SMSB	Blade Sub-Micro	1.95
Р	SW-1010-A13	WMS double flipper	6.00
R	SW10A-48	WMS flipper cabinet	4.50
S	03-7811	End-of-stroke Norm Closed	4.50
T	B-9951-1	WMS Lane change	4.00
U	SW1A194	E.O.S., Norm Open.	4.00
٧	ASE9821295	E.O.S., N.C.	4.00
W	5641-12724	WMS operator switches	14.00
Χ	12-CP	Micro switch	3.50
Υ	12-CRB	Micro roller blade	3.75
Z	12-CCS	Micro coin switch	3.50
AA	V3L-507DB	Micro blade	3.50
BB	C-921	Pop bumper plastic spoon	1.00
CC	14-0645	Switch wire	.35
	S647-12133-12	Ball trough micro switch	3.50
-	SW-1A-119	WMS switch	2.00
	SW-1A-120	Slingshot switch	4.00
-	06-8AT-20	WMS Copper switch blade	.25





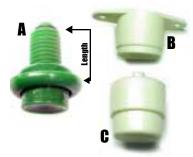
Cabinet Parts

LOCKS



Itom #	Description	Price
A) LKA118	1-1/8" keyed-alike	\$4.00
B) LKA78	7/8" keyed-alike	4.00
C)A-13379	WMS backglass lock w/	9.00
	bracket	

FLIPPER BUTTONS



Item #	Color	Len.	Price
A-16883-4	Red	1"	\$2.00
A-16883-DR	Dark Red	1"	2.00
A-16883-5	White	1"	2.00
A-16883-6	Yellow	1"	2.00
A-16883-15	Orange	1"	2.00
A-16883-1	Blue	1"	2.00
FBSTO	Trans. Orange	1"	2.00
FBSTR	Tr. Red	1"	2.00
FBSTG	Trans. Green	1"	2.00
FBLG	Green	1-1/2"	2.00
FBLTB	Trans. Blue	1-1/2"	2.00
ВВН	Bally White	-	1.50
BFB	Bally White	-	1.50
	A-16883-4 A-16883-5 A-16883-5 A-16883-15 A-16883-1 FBSTO FBSTR FBSTG FBLG FBLTB BBH	A-16883-4 Red A-16883-DR Dark Red A-16883-5 White A-16883-6 Yellow A-16883-15 Orange A-16883-1 Blue FBSTO Trans. Orange FBSTR Tr. Red FBSTG Trans. Green FBLG Green FBLTB Trans. Blue BBH Bally White BFB Bally	A-16883-4 Red 1" A-16883-DR Dark Red A-16883-5 White 1" A-16883-6 Yellow 1" A-16883-15 Orange 1" A-16883-1 Blue 1" FBSTO Trans. 1" Orange FBSTR Tr. Red 1" FBSTG Trans. 1" Green FBLG Green 1-1/2" FBLTB Trans. 1-1/2" Blue BBH Bally - White BFB Bally -

BALL SHOOTER PARTS * G MANULUM 7-3/4"

Fig	Item #	Description	Price
Α	BSAR	Black shooter assembly, Red knob	\$17.95
В	B-12445	Chrome shooter assembly	17.95
C	A-100-12	Pointed end (Bally style) shooter rod	7.95
D	20-9258-7	Rounded end new-style shooter rod	6.00
Ε	20-9927-1	Silver-ball ended shooter rod (as used on Scared Stiff)	9.50
F	10-149	Outer shooter spring	.75
G	10-148-2	Shooter, red, .042" - Highest tension	.95
G	10-148-3	Shooter, blue, .038" - High tension	.95
G	10-148-1	Shooter, silver, .035" - Med-high tension (Universal)	.95
G	10-148-4	Shooter, green, .033" - Med. tension	.95
G	10-148	Shooter, black, .031" - Low tension	.95
G	10-148-7	Shooter, white, .028" - Med-low Tension	.95
G	10-148-6	Shooter, brown, .026" - Lowest Tension	.95
-	03-7357	WMS ball shooter sleeve	.75

PINBALL LEGS



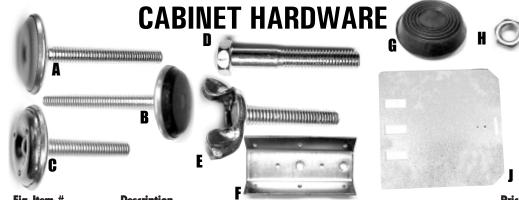
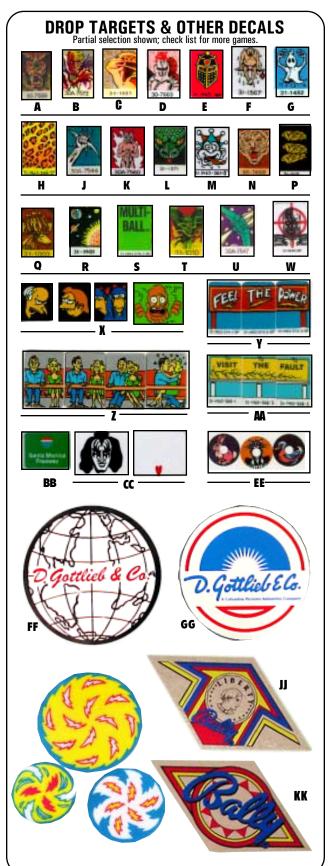


Fig	Item #	Description	Price
Α	LL3	Leg leveler, metal, 3"	\$1.00
В	LL3N	Leg leveler, nylon base, 3"	1.25
C	LL2	Leg leveler, metal, 2"	1.00
D	LB58	5/8" chrome acorn head leg bolt	.75
D	LB58B	5/8" brass acorn head leg bolt	1.00
Ε	WBB	Wing Bolt, for back boxes	1.00
F	01-11400-1	Williams new style leg bolt plate	3.95
G	LLPRC	Leg leveler protective rubber cup	.50
Н	LLN	Leg leveler nut	.15
J	01-11028	Williams cashbox lid	6.95

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Decals & Drop Targets





803-957-5500

DECALS

Fig	ltem #	Game	Price
Α	30-7599	Algar	7.50
В	30A-7572	Alien Poker (Yellow Guy)	7.50
-	30-5009DT	Back to the Future (Flames)	5.00
EE	99-1	Bad Cats Targets	12.50
C	31-1021	Barracora	10.00
D	30-7603	Black Knight	15.00
Е	31-1463-563	Black Knight 2000	7.50
-	30-7575B	Blackout	12.50
-	99-2	Big Guns	10.00
-	99-3	Checkpoint	10.00
F	31-1367	Comet (Dummy)	5.00
-	31-1040	Cosmic Gunfight	12.50
G	31-1452	Cyclone (Spooks)	5.00
Z	31-1452F	Cyclone (Ferris Wheel)	15.00
-	31-1090-3	Defender	20.00
-	99-4	Diner	7.50
Н	31-1463-568	Dr. Dude	5.00
AA	31-1463-574		7.50
Т	31-1464-2011	l Elvira (Complete)	25.00
-	99-5	Firepower (Drop Targets)	7.50
J	30A-7544	Flash	10.00
	30A-7560	Gorgar	7.50
L	31-1371	Grand Lizard	10.00
BB	31-1380	High Speed (Spinner)	5.00
-	31-1784	Indiana Jones	5.00
	31-1463-567		12.50
CC	99-22	Kiss (Spinner F&B)	5.00
N	30-7620	Jungle Lord	12.50
-	30A-7558	Lazerball	12.50
-	30-7575	Laser Cue	7.50
Р	30-1415	Millionare	5.00
0		Pharaoh	15.00
R	31-1401	Pinbot	5.00
-	30A-7541-1	Phoenix	12.50
S	31-1463-576	Roller Games	\$5.00

Fig	Part #	Game	Price
-	30-7580	Scorpion	12.50
Χ	30-5116-XX	Simpsons (Complete)	25.00
-	30-5116-P	Simpsons (6 Pins only)	12.50
T	31-1010	Solar Fire	15.00
-	30-7575S	Sorcerer	12.50
-	31-1437	Space Station	5.00
U	30A-7547	Stellar Wars	12.50
W	31-1640	Terminator 2	5.00
-	31-1401	Taxi	10.00
-	30A-7546	Time Warp	10.00
•	99-6	F/14 Tomcat (Spinner)	3.00
-	99-7	Torpedo Alley	7.50
	30A-7543	Tri-Zone	5.00
	30-1074	Warlock	12.50
Y	31-1463-574	Whiriwind	5.00
		JND STICKERS	
-	99-8	Cats	7.50
	99-9	Ducks	7.50
•	99-10	Explosion	5.00
	99-11	Firepower	12.50
٠	99-12	Firepower II	12.50
	99-13	Rabbits	7.50
•	99-14 99-15	Road Kings	12.50 15.00
-		Space Station	15.00
		SHOT PLASTICS	
•	99-16	Cyclone Slinghshot Plastics	35.00
-	99-17	Terminator 2	35.00
-	99-18	Black Knight 2000	35.00
-	99-19	Whirlwind	35.00
-	99-20	Dr. Who	35.00
		R STICKERS & MISC	
FF	GOTSTKE	Early Gottlieb Coin Door Sticker	5.95 3/\$12
GG	GOTSTKL	Late Gottlieb Coin Door Sticker	5.95 3/\$12
IJ	BLYSTKS	Bally Susan B. Anthony Coin Door Sticker	5.95 3/\$12
KK	BLYSTK	Bally Coin Door Sticker	5.95 3/\$12
НН	99-21	Whirlwind Spinning Discs	25.00



Fig Part #	Description	Price
A 03-8750	WMS Drop target	\$4.50
B 03-8749	WMS Drop target skinny back	\$4.50
C A-11905	Bally Drop Target	4.50
D 545-5048-01	Sega/Data East Drop Target	4.50

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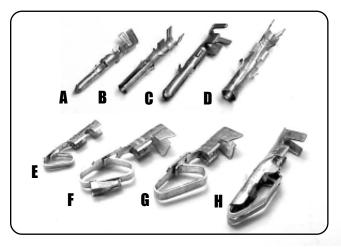


Connectors

MOLEX® CONNECTOR PINS

Crimp Terminals (connector pins) come in two sizes for most pinball machines: .156" and .100" centers. This refers to the spacing between the center of each terminal when mounted on the circuit board. Trifurcon terminals are excellent for high-current applications where overheated connectors need repair.

g Item #	Description	Price/30
CT062M	.062" Male round crimp terminal	\$5.00
CTO62F	.062" Female round crimp terminal	5.00
CTO93M	.093" Male round crimp terminal	5.00
CT093F	.093" Female round crimp terminal	5.00
CT100S	.100" Standard crimp terminal	5.00
CT156T	.156" Trifurcon crimp terminal	5.00
CT156S	.156" Standard crimp terminal	5.00
CT156EC	.156" Edge connector terminal	5.00
	CTO62M CTO62F CTO93M CTO93F CT100S CT156T	CT062M .062" Male round crimp terminal CT062F .062" Female round crimp terminal CT093M .093" Male round crimp terminal CT093F .093" Female round crimp terminal CT100S .100" Standard crimp terminal CT156T .156" Trifurcon crimp terminal



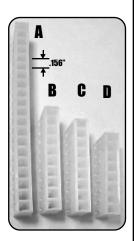
HOUSINGS AND HEADERS

HOUSINGS

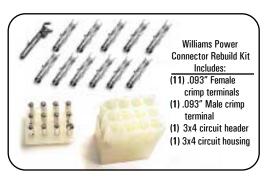
Fig	j ltem #	Spacing	No. of Positions	Price
-	CF10016	.100"	16	1.20
-	CF10017	.100"	17	1.25
-	CF10024	.100"	24	1.80
Ε	CF10028	.100"	28	2.00
D	CF15608	.156"	8	.80
C	CF15609	.156"	9	.90
В	CF15610	.156"	10	1.00
-	CF15611	.156"	11	1.10
Α	CF15620	.156"	20	\$2.00
F	CFREH	.156"	8, rear-entry	1.25
ЦΕ	ADERS			
пс	ADENO			
G		.156"	5	\$0.50
_		.156" .156"	5 8	\$0.50 .80
_	CM15605		*	•
G	CM15605 CM15608	.156"	8	.80
G L	CM15605 CM15608 CM15609	.156" .156"	8 9	.80 .95
G L	CM15605 CM15608 CM15609 CM15610 CM15611	.156" .156" .156"	8 9 10	.80 .95 1.00
G L H	CM15605 CM15608 CM15609 CM15610 CM15611	.156" .156" .156" .156"	8 9 10 11	.80 .95 1.00 1.10
G L H	CM15605 CM15608 CM15609 CM15610 CM15611 CM15620	.156" .156" .156" .156" .156"	8 9 10 11 20	.80 .95 1.00 1.10 1.75
G L H	CM15605 CM15608 CM15609 CM15610 CM15611 CM15620 CM15624	.156" .156" .156" .156" .156"	8 9 10 11 20 24	.80 .95 1.00 1.10 1.75 2.40
G L H	CM15605 CM15608 CM15609 CM15610 CM15611 CM15620 CM15624 CM10012	.156" .156" .156" .156" .156" .156"	8 9 10 11 20 24 12	.80 .95 1.00 1.10 1.75 2.40

tools on page 33 make short work of removing difficult pins!

Our extractor



CONNECTOR KITS



Data East / Williams Power Connector Rebuild Kit (Above): This connector kit repairs burnt power connects on early Williams and Data East solid state machines. It contains everything shown above.

Bally Power Connector Rebuild Kit (Not Shown): Kit contains (1) #CF15620, (1) #CF15610, (1) #CF15608, with matching header pins, as well as (40) Trifurcon® crimp terminal pins.

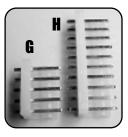
ltem #	Description	Price
CKWMS	WMS connector rebuild kit	\$4.95
CKBLY	Bally connector rebuild kit	9.95

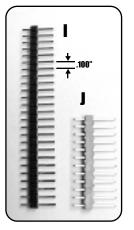


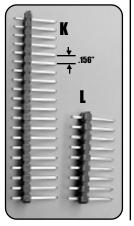
| CM10025



.100"







POWER CORDS



ltem #	Description	Price
PC10	10' AC Power cord	\$3.50
PC15	15' AC Power cord	4.50
PCIEC	8' AC Computer power cord	3.00
PCSTRIP	6-outlet power strip w/ 5' cord	5.95

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Electronic Components





INTEGRATED CIRCUITS



1tem# 555	Package DIP-6	Description IC - (NE555) Timer IC	Pric \$1.5
LM339N	DIP	IC - Quad Differential Voltage Comparator	1.5
LM741D	DIP	IC - Comparitor OP amp	.9
JLN2803A	DIP	IC -	4.5
MOC3011	DIP-8	Opto IC	2.9
CA3081A	DIP-14	IC-Transistor Array	3.9
3459	DIP	(MC3459) Quad Memory Driver	3.0
4011 4042	DIP DIP	(MC14011) Quad NAND gate IC Cmos IC	1.1
1042	DIP	Cmos IC	1.7
1049	DIP	Cmos (MC14049) Hex Inverter/Buffer	.5
4066	DIP	Cmos IC	1.2
MC14514	DIP	Cmos IC	2.5
5101	DIP-22	CMOS RAM	4.0
JDN6118A	DIP	Display driver (NE585, UDN6184, XR6118P) RAM IC	4.9
6264LP-12 6532	DIP DIP-40	RIOT IC (GOTTLIEB) 40 pin	8.9 12.0
6800	DIP-40	CPU Microprocessor IC	4.5
6802	DIP-40	CPU Microprocessor IC	6.9
6810	DIP-24	IC - RAM	4.0
6821	DIP-40	IC - PIA (Peripheral Interface Adapter)	4.5
7400	DIP-14	IC - Quad 2-input NAND gate	.4
7402	DIP-14	IC - Quad 2-input NOR	1.0
7404 7405	DIP-14 DIP-14	IC - Hex Inverter IC - Hex Inverter	1.0
7403	DIP-14	IC - Quad 2-input AND	.7
7410	DIP-14	IC - Triple 3-input NAND	1.7
7414	DIP-14	IC - Hex Schmitt Trigger Inverting	1.5
7430	DIP-14	IC - Single 3-input NAND	2.0
7432	DIP-14	IC - Quad 2-input OR	.7
7442	DIP-14	IC - BCD to decimal decoder	2.1
7474 7483	DIP-14 DIP-14	IC - Dual D flip flop IC - 4-bit Full Add	2.0
7486	DIP-14	IC - Quad ex-OR gate	1.0
74107	DIP-14	IC · Dual JK flip flop	.7
74138	DIP-14	IC - 1 of 8 Decoder/Dempx.	2.0
74139	DIP-14	IC - Dual 2/4 decoder	1.0
74154	DIP-14	IC - 4-16 line Decoder/Demplx.	2.9
74155	DIP-14	IC - Dual 2-Bit Bin 4 line strobe Decode/Dempx.	1.7
74157	DIP-14	IC - Quad 2 input data select/Dempx.	1.5
74161 74166	DIP-14 DIP	IC - Sync. 4-bit counter IC - 8-bit shift register	2.2
74174	DIP	IC - Hex Quad D flip flop	2.2
74175	DIP	IC - Quad D flip flop	1.5
74191	DIP	IC -	3.0
74279	DIP	IC - Quad Set Reset Latch	1.3
74LS00	DIP	IC - Quad 2-Input NAND Gate	.9
74LS02	DIP DIP	IC - Quad 2-Input NOR Gate	8.
74LS04 74LS08	DIP	IC - Hex Inverter IC - Quad 2-Input AND Gate	.g .g
74LS138	DIP	IC - 1 of 8 Decoder Demultiplexer	.8
74LS139	DIP	IC - Dual 2 to 4 Line Decoder	1.5
74LS161	DIP	IC - Preset Binary Ctr	1.5
74LS163	DIP	IC - 4-Bit Counter	1.5
74LS174	DIP	IC - Hex D Flip-Flop IC - Octal Buffer-Line Driver	1.7
74LS244 74LS245	DIP DIP	IC - Octal Burrer-Line Driver	2.0
74LS240	DIP	IC - Octal bus Transceiver IC - Dual 4 Line to 1 Line Multiplexer	2.0
74LS259	DIP	IC - 8-bit Addressable Latch	2.0
74LS273	DIP	IC - Octal Positive Edge Triggered	2.0
74LS365	DIP	IC	2.0
74LS367	DIP	IC - Hex Tri State Line Driver	2.0
74LS374	DIP	IC - Octal Edge Triggered Flip-Flop	1.7
74LS541	DIP	IC - Octal Buffer-Line Driver	2.0
74LS74 74S04	DIP DIP	IC - Dual D Flip Flop IC - Hex Inverter	1.0
CA3081	DIP	IC - Transistor Array	4.9
JDN6118A	DIP	IC - Fluorescent Display Drier	4.9
UDN6184A	DIP	IC - Digit Driver	10.0
JLN2003	DIP	IC- Transistor Array	3.0
JLN2803	DIP	IC - Transitor	5.0
MC14049	DIP	IC - Hex Buffer Inverter	1.7
MC14069	DIP	IC - Hex Inverter, Low Power	2.0
MC14543	DIP	IC - BCD to 7-Segment Decoder	3.0

TRANSISTORS



Item#	Description	Price
MPSA42	Transistor	\$.60
MPSA43	Transistor	.60
MPSA56	Transistor	.60
MPSA70 MPSD02	Transistor Transistor (2N5401)	.60 .50
MPSD52	Transistor (2N5401)	.50
MPSU05	Transistor	2.50
MPSU07	Transistor (MPSU60)	2.60
MDS60	Transistor (SDS-202) (NTE296)	7.00
2N2905	Transistor	1.00
2N3055 2N3440	Transistor Transistor	2.50 4.25
2N3584	Transistor	4.95
2N3716	Transistor	4.50
2N3792	Transistor	4.50
2N3904	Transistor	.45
2N3906 2N4401	Transistor Transistor	.45 .40
2N4401 2N4403	Transistor	.45
2N5060	Transistor	.95
2N5064	Transistor	1.50
2N5401	Transistor (MPS-DS2)	.65
2N5550	Transistor	.75
2N5875 2N5876	Transistor	4.00 4.00
2N5878	Transistor Transistor	4.00
2N5879	Transistor	4.00
2N5883	Transistor	8.00
2N6045	Transistor (Use TIP 102)	1.40
2N6057	Transistor	6.00
2N6122 2N6236	Transistor Transistor (MCR106-1)	2.00 2.00
2N6282	Transistor	8.00
2N6283	Transistor	10.00
2N6284	Transistor	8.10
2N6286	Transistor (2N6287)	8.50
2N6292 2N6345	Transistor Transistor	1.80 8.50
2N6427	Transistor	.70
2N6558	Transistor	1.30
SDS-201	Transistor (NTE171) (NPN)	5.00
2SC1106	Transistor	8.00
2SD870 2SD1398	Transistor (2SD871) Transistor	8.00 7.00
2SC1815	Transistor	.60
2SC2482	Transistor	1.00
2SC3039	Transistor	2.20
2SC3040	Transistor	.70
2SC1138	Transistor (2SD478) (TIP 47)	1.70
SE9302 MPSA42	Transistor (Use TIP 102) Transistor	1.40 .75
MCR106-1	Transistor (SCR lamp driver)	.95
MPSU45	Transistor	3.95
MPSU57	Transistor	3.95
TIP29	Transistor	4.25
TIP30	Transistor	3.00
TIP31 TIP32	Transistor Transistor	1.40 1.40
TIP36	Transistor	4.95
TIP41C	Transistor	1.50
TIP42	Transistor	1.60
TIP47	Transistor	1.70
TIP102 TIP106	Transistor Transistor	1.40 1.50
TIP106	Transistor	1.50
TIP1107	Transistor	1.50
TIP120	Transistor	1.50
TIP121	Transistor	1.80
TIP122	Transistor (TIP120)	1.50

POWER RESISTORS



Item#	Resistence	Wattage	Price
R5W25	25 ohms	5 watt	1.00
R5W27	27 ohms	5 watt	1.00
R5W100	100 ohms	5 watt	1.00
R5W3K	3 Kohms	5 watt	1.00
R5W47K	4.7 Kohms	5 watt	1.00
R7W100	100 ohms	7 watt	1.00
R10W5	5 ohms	10 watt	1.25
R10W330	330 ohms	10 watt	1.25
R10W600	600 ohms	10 watt	1.25

RESISTORS

Item#	Resistence	Wattage	Price
R025W10	10 ohms	1/4 watt	\$0.10
R025W47	47 ohms	1/4 watt	.10
R025W68	68 ohms	1/4 watt	.10
R025W330	330 ohms	1/4 watt	.10
R025W470	470 ohms	1/4 watt	.10
R025W680	680 ohms	1/4 watt	.10
R025W1K	1K ohms	1/4 watt	.10
R025W10K	10K ohms	1/4 watt	.10
R025W24K	24K ohms	1/4 watt	.10
R025W47K	47K ohms	1/4 watt	.10
R025W50K	50K ohms	1/4 watt	.10
R025W120K	120K ohms	1/4 watt	.10
R05W680	680Kohms	1/2 watt	.15
R05W330K	330Kohms	1/2 watt	.15
R05W390K	390Kohms	1/2 watt	.15
R2W82	82 ohms	2 watt	.25



BRIDGE RECTIFIERS



Item#	Description	Price
GIB3502	200V 35 Amp	4.95
KBPC2502	200V 25 Amp	5.25
MDA200-3N253	50V 2 Amp	4.00
VJ248/KBPC802	200V 10 Amp	3.95
KBPC3502L	200V 35 Amp - Lugs	4.95
KBPC3502W	35 A - Wire leads	4.95
CTB-34	Power Supply	3.25

VOLTAGE REGULATORS

ltem#	Package	Description	Price
LM323K	T0-3	5 volt 3A Voltage Regulator	\$4.00
LM383	TO-220	Audio Power Amp	3.50
LM555	DIP	Timer	1.80
LM723	DIP	Voltage Regulator	2.00
LM7815	T0-220	15 Volt 1.5A Voltage Regulator (LM340T15)	1.60
7805	T0-220	5 Volt 1.5A Voltage Regulator (LM340T5)	1.90
7812	T0-220	12 Volt 1.5A Voltage Regulator (LM340T12)	1.90
7912	TO-220	!2 Volt Regulator	1.60

CAPACITORS

Item #	Value	Volts.	Price	Item #	Value	Volts.	Price
C001M50	.01µF	50	.50	C47M100	47μF	100	1.00
C01M100	.1 <i>µ</i> F	100	.75	C100M10	100μF	10	.50
C2M	2.2 <i>µ</i> F	50	.50	C100M200	100μF	200	1.50
C2M250	2.2μF	250	1.00	C220M35	220µF	35	.75
C10M16	10 <i>µ</i> F	16	.50	C220M50	220µF	50	1.00
C10M25	10 <i>µ</i> F	25	.50	C330M50	330μ F	50	1.00
C10M250	10 <i>µ</i> F	250	1.00	C470M16	470μF	16	.50
C22M10	22µF	10	.75	C470M200	470μ F	200	2.00
C22M35	22μF	35	.75	C640M16	640µF	16	1.00
C22M50	22µF	50	1.00	C1000M35	1000μF	35	3.00
C33M50	33µF	50	1.00	C2200M25	2200µF	25	4.00
C33M160	33 <i>µ</i> F	160	1.50	C15000M16	15000μF	16	8.00

RELAYS



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IC - Dual monostable multivibrator

DIP

9602

3.50

TIP125

Transistor



Components

EPROMS

ltem#	Package	Description	Price
2716	DIP-24	IC - 16kbit EPROM (pulls)	2.00
2532	DIP-24	IC - 32kbit EPROM (pulls)	3.00
2732	DIP-24	IC - 32kbit EPROM (pulls)	2.00
2764	DIP-24	IC - 64kbit EPROM (pulls)	3.00
27128	DIP-28	IC - 128kbit EPROM (pulls)	3.50
27256	DIP-28	IC - 256kbit EPROM (pulls)	4.00
27512	DIP	IC - 512kbit EPROM (pulls)	5.00
27C010	DIP	IC - 1mbit EPROM (pulls)	6.00
27C020	DIP	IC - 2mbit EPROM (pulls)	8.00
27C040	DIP	IC - 4mbit EPROM (pulls)	10.00
270080	DIP	IC - 8mbit EPROM (pulls)	15.00

GAME ROM UPDATES

Update your game's software to the latest revision! We have software for almost all manufacturer's

#WPCPROM - WPC EPROM update (Specify game & IC #'s)......\$25/chip **#PROM -** Any other machine update (Spec. game, mfr, & IC #'s)...\$15/chip

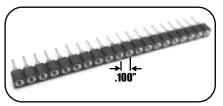
		DIO	DES	
Item#	Description	Price	Item#	Description
MR751	Diode	\$1.50	1N4764	Diode

item#	Description	Price
MR751	Diode	\$1.50
1N4001	Diode	.25
1N4004	Diode	.25
1N4006	Diode	.20
1N4007	Diode	.16
1N4148	Diode	.30
1N4734	Diode	.50
1N4759	Diode	.50

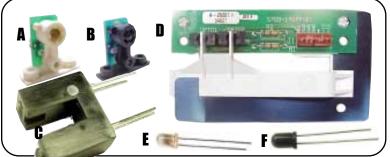
Item#	Description	FIICE
1N4764	Diode	.70
1N5275	Diode	1.40
1N5359	Diode	1.60
1N5401	Diode	.50
1N5404	Diode	1.00
1N5990	Diode	.50
R712E	Diode (TO-3 package)	8.95

SIP SOCKETS

These single inline pin (SIP) machine pin sockets are the only chip socket you need to stock. They are 'snappable' to any length and can accomodate any SIP or DIP (dual inline pin) IC from 2 to 40 pins. They are superior to conventional sockets because they allow access for soldering between the rails on double-sided circuit boards. They come in 20-pin strips.



OPTOS



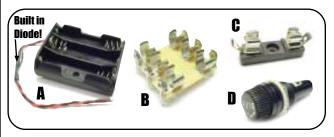
_	100		
Fig Ite	em #	Description	Price
A A -	16908	WMS IR LED Assy.	\$3.00
В А-	16909	WMS IR Opto receiver Assy	3.00
C 54	90-12451	IR Opto/LED pair, (used in Twilight Zone)	6.95
C 54	90-10159	IR Opto/LED pair	6.95
D A -	17316	WMS Flipper opto board	19.95
E 56	71-12731	IR L.E.D.	2.95
F 51 6	63-14114	IR Opto detector	2.95

FUSES

These are quality fuses designed to protect your machines from hazardous shorts. Make sure to check your manual and note the correct amperage and fuse type (Fast-blow or slowblow) before replacing your fuses. The GMA Mini-fuses are commonly found in late-model Williams/Bally Machines.

-		-	and the same of
Amperage	AGC Fast-Blow \$1.95/5-pack	GMA Mini FB \$1.95/5-pack	MDL Slow-Blow \$3.95/5-pack
.1	AGC1-10	GMA1-10	-
.125	AGC1-8	GMA1-8	-
.187	AGC3-16	-	MDL3-16
.25	AGC1-4	GMA1-4	MDL1-4
.50	AGC1-2	GMA1-2	MDL1-2
.75	AGC3-4	GMA3-4	MDL3-4
1	AGC1	GMA1	MDL1
1.5	AGC112	GMA112	MDL112
2	AGC2	GMA2	MDL2
2.5	AGC212	GMA212	-
3	AGC3	GMA3	MDL3
3.5	AGC312	GMA312	MDL312
4	AGC4	GMA4	MDL4
5	AGC5	GMA5	MDL5
6	AGC6	GMA6	MDL6
7	AGC7	GMA7	MDL7
8	AGC8	GMA8	MDL8
10	AGC10	GMA10	MDL10
15	AGC15	GMA15	MD15
20	AGC20	-	MDL20
25	AGC25	-	MDL25
30	AGC30	-	-

BATTERY & FUSE HOLDERS



A) Stop the rot! For ANY Bally, Gottlieb, or Stern CPU board. End your NiCad or other board mounted battery corrosion problems permanently with this remotely mounted, 3 AA battery replacement kit. No board modification thanks to the built-in-diode protection. B) Williams battery holder

C) Replace your corroded surface-mounted fuse holders for more reliable connections. D) These chassis mounted fuse holders are commonly found in power supply cases.

Fig	Item #	Description	Price
Α	RBH073	Remote Battery Holder	\$4.95
В	WMSBATT	WMS Battery Holder	4.95
C	FHSM	Surface mounted fuse holder	2.50
D	FHCM	Chassis mounted fuse holder	2.50

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Pin-Mods





Gottlieb System 1 Replacement Board



- Buck Rogers • Charlie's Angels
- Cleopatra • Close Encounters
- Countdow
- Dragon
- Genie • Incredible Hulk
- Joker Poker • Pinball Pool
- Roller Disco
- Sinbad
- Solar Ride

Gottlieb

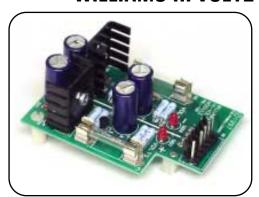
• Torch • Totem

At last, an easy replacement for those unreliable, unobtainable, un-repairable old System 1 CPU's. The wizards at Ni-Wumpf (an inside joke for Monty Python aficionados) recreated this half size board from ground up and crammed ALL System 1 games into its dip-switch selectable memory! This board is a PLUG-//V replacement for the CPU board. Simply change the switch settings and move the board from game to game. As an added bonus, extensive diagnostic

routines have been added to each game's software. Since it is constructed of easyto-find parts, this board makes an excellent long-term investment for your Gottlieb machine. Comes with a detailed manual describing set up, operation, and diagonstics, schematics, and a 30-day warranty.

#U-NIWUMPF - Ni Wumpf CPU \$184.95

WILLIAMS HI-VOLTZ UPGRADE



This module is an excellent replacement for all Williams and United electronic machines made from 1977 to 1988. It plugs on top of and replaces the originial high voltage circuitry. Installation takes about 15 minutes, even for the novice. Made of commonly available parts, it protects your expensive displays with its wellregulated, fused outputs. Has LED indicators and comes with a 6-month war-

#WHVK - Hi-Voltz Module. \$39.95

GTB HAUNTED HOUSE UPKICKER UPGRADE

The engineers at PINBALL LIZ-ARD heard and heeded the cries of **HAUNTED HOUSE** owners the world over who said their upkickers would not. They made this new kit that includes a new, redesigned pop bumper board, wiring, hardware, and detailed installation instructions for restoring power to the upkicker assembly.



EPROM PROGRAMMING

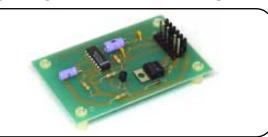


A) EMP-10 Programmer: The NEEDHAM'S PB-10 is the most cost effective and versatile "chip burner" on the market. If you have a PC compatible computer of any kind, you can plug this card into your parallel printer port and be reading, copying, editing, and programming EPROMs (erasable programmable read only memory chips) in minutes. The PB-10 reads and writes all chip families used in pinball machines and has easy to use, menu driven software. Features a 2 foot cable, Zero Insertion Force chip socket, software & instructions on 3.5" floppy and booklet. Programs up to 4 meg EPROMS and larger $% \left(1\right) =\left(1\right) +\left(1\right) =\left(1\right) +\left(1\right) +\left(1\right) =\left(1\right) +\left(1\right)$

B) Datarase EPROM eraser: This small device will simultaneous erase up to four EPROMS in just minutes. Powered by the plug-in wall adapter (included) the small ultraviolet light exposes the chips for clean complete erasures. An excellent companion to the PB-10 programmer.

A) #EMP10 - EMP-10 Parallel Port Programer...... \$219.95 #EPCOMBO - EMP-10 programmer AND Eraser \$249.95

POP BUMPER DRIVER BOARD



From the folks at PINBALL LIZARD comes a brand new replacement for GOTTLIEB Part #A-19741 with one difference — this one WORKS! These boards have been redesigned for reliable bumper popping into the next century.



Avoid using the playfield single prop rod because it can twist the plywood playfield and induce cracks in your playfield paint! Instead, swing the playfield up and lean it against the backbox.

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Repair Helpers

BACKGLASS TRIM





FigItem #	Description	Length	Price
A LT14	Chrome metal glass lift trim, 1/4" glass	28-1/2"	\$20.00
B LT316	Chrome metal glass lift trim, 3/16" glass	28-1/2"	20.00
C 03-8228-1	Side trim, WMS glass	22"	5.95
C 03-8228-2	Top trim, black plastic, WMS glass	27"	5.95
C 03-8228-3	Top trim, black plastic, WMS Safecracker	17-15/16"	5.95
D 03-8229-1	Lift trim, black plastic, standard	27"	5.95
D 03-8229-4	Lift trim, black plastic, narrow	22"	5.95
E 545-5018-15	Top trim, black plastic, Sega/D.E.	26"	5.95
E 545-5018-07	Side trim, black plastic, Sega/D.E.	21-5/8"	5.95
F 545-5017-01	Lift trim, black plastic, Sega/D.E.	26"	5.95
- 545-5021-02	Lift trim, black plastic, Sega/D.E.	26-7/16"	5.95



PLAYFIELD GLASS REAR MOLDING

ltem #	Description	Length	Price
03-8091	Rear glass molding	20-5/16"	\$7.95
03-8091-2	Wide rear glass molding	23"	7.95

MYLAR® SHIELDS 7 1/2"

Use the half circles for protection of heavy traffic areas like slingshots, or trim them to fit spots near saucer kickouts, targets, rebound rubbers, etc. Use the rings to replace worn or missing plastic shield around pop bumpers. The spots are great for areas like ball kick-outs and ramp exits. For total playfield protection, remove all playfield components and install a full sheet and trim to keep your precious playfield permanently pristine!

FigItem #	Description	Price/ea	Price/10
A MFC	Mylar, Pop bumper full circle	\$0.89	\$7.00
В МНС	Mylar, Half-circle (Sling-shot)	0.89	7.00
C MSC	Mylar, spot circle	.40	3.00
D MFS	Mylar, full 22"x 43" pre-cut sheet	17.00	
- MFT	Mylar, 22"wide by the foot	4.95/ft	35.00

CLIPS & HOLDERS

These 3/4" dameter clips fasten securly to a flat surface with the included adhesive pad on the bottom. They make routing wires easy since they clip open and shut instantly. Perfect for any re-wiring projects.

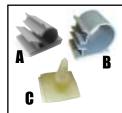


Fig Part #	Description	Price
A 03-7722-4	1/4" Kwik Klip w/ adhesive	\$.75
B 03-7722-12	3/4" Kwik Klip w/ adhesive	.75
C 03-8088-1	Board mount w/ adhesive	.50

HEAT SHRINK TUBING



Heat shrink tubing is the answer to obsolete electrical tape. It adds a professional touch to any connection. When exposed to heat from a lighter or heat gun, it shrinks to 50% of its original size. Available in 1/4" and 1/8" diameters.

HST14 -	Heat Shrink	Tubing,	1/4"	Dia	\$2.00/ft
HST18 -	Heat Shrink	Tubing,	1/8"	Dia	1.50/ft

CABLE TIES

A quick, easy and secure way to neaten up messy wire harnesses. These 6" ties are especially useful for tidying up underneath the playfield. 100

#CT6 - 6" Cable ties, 100 count\$2.75

PinTip:

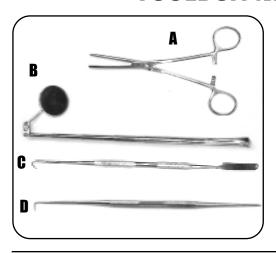
Place 1" diameter flat washers under the slingshot playfield plastics to prevent an "airball" from chipping the corners. Many new machines now come with this simple fix from the factory.

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Special Tools

Marco 33

TOOLBOX NECESSITIES



A) Clamping Forceps - These 6" medical-style locking forceps are great for clamping things, retrieving small parts, and holding parts while soldering.

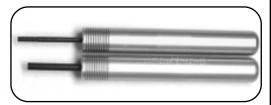
B) Telescoping Mirror · At only 5" folded up, this portable handy device telescopes to 20" to help take a peek in those hard-to-get-to areas in your machines.

C) Spring Hook - Another necessity to help install and remove any of the zillions of springs in a pinball machines.

D) Scribe - You can't master the four P's of pinball repair (Poking, Prying, Punching, and Probing) without this handy universal tool. A must for any toolbox.

#77-FC6 - 6" Forceps \$.	2.95
#77-TSM - Telescoping Mirror	2.95
#77-SHK - 6" Spring Hook	2.50
#77-SCB - Scribe	2.50

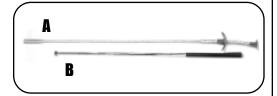
ROUND PIN EXTRACTORS | TAMPER-PROOF TORX BIT



There's no way on earth to remove a round pin (male or female crimp terminal) from its housing without destroying it, the housing, or your hands — unless you use this tool. It pushes the pin's locking tabs back to allow clean removal of the pin. The .093" diameter pin tool is the most commonly used on all pinball machines, while the smaller .062" pin tool is useful on early WILLIAMS solid state harness connectors.

#77-PET93 -	.093"	pin extractor	 \$14.95
#77-PET62 -	.062"	nin extractor	 14.95

PICK UP TOOLS



A) Claw Pickup Tool \cdot This tool is a must for retrieving dropped parts in your machine. 24'' flexible shaft.

B) Pocket Magnetic Pickup Tool - A handy item to have around, this 6'' telescopically expands to 36''.

#77-CPUT - Claw Pickup tool	\$3.50
#77-PPUT - Pocket Magnetic Pickup Tool	\$3.25



A necessary tool for all late model coin-op games. 7 piece set includes TORX sizes T-10 through T-40. These 1/4" drive bits have hollow points to fit the nipples on TORX security screws.

# 77-TTB - 1	TORX Bit Set	•••••	\$7.	95
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INCLINOMETER

Does your pinball machine make the grade? Manufacturers design their machines to have a downward pitch of between 6 and 7 degrees. You'll know for sure if it's playing to spec with this neat little American made angle finder. Measures all angles in 1° increments up to 90°.



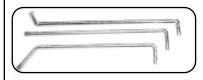
#77-NCL - Inclinometer \$9.95

INFRARED DETECTOR PEN



This tool is perfect for troubleshooting opto problems such as those used in late-model Williams, Bally, Sega, and New Stern machines. It has a green led on the end that shifts to yellow when the pen is pointed at a source of infrared light.

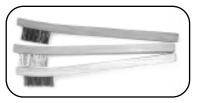
SWITCH ADJUSTER KIT



3 piece set contains an assortment of different offset adjuster tools. Absolute necessity for adjusting those leaf switches in tight spots!

#77-SWK - Switch Adjusters \$5.95

CLEANING BRUSHES



This brush set contains three types of brushes: Nylon, Brass, and Stainless Steel. Excellent for cleaning small parts and removing corrosion and rust.

#77-3PBS - 3 pc Brush Set \$2.50

ALLIGATOR TEST CLIP SET

Not a complex tool, but certainly useful. Each pack has ten 12" jumper wires in red, green, yellow, black, and white.



#77-ATCL - Test Clip Leads \$3.50/pk.

SEGA/STERN/D.E. BACKBOX KEY

This often-lost large hex-wrench key is needed to quickly and safely secure the backbox in an upright position, as well as lower it for shipping.

#777-0001-00 - Backbox Key

\$4.95

ABRASIVES

A) Socket Cleaning Stick: A crayon sized (3" x 5/16" diameter) rubber stick impregnated with abrasive material. Just right for scrubbing corrosion inside bayonet lamp sockets.

B) Flexstone Abrasive Strip: Just the right tool for burnishing and cleaning corroded or cruddy contacts, especially on electromechanical machines.



A) #77-SCS - Socket cleaning stick \$3.95 B) #77-FXT - Flexstone \$1.00

fax: 803-957-6974

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Parts Kits

PINBALL RESOURCE K

It's Friday night and your pinball machine is down. The 'Mission: Critical' parts kit to the rescue! It contains over \$175 worth of the parts you're going to need to bring your machine back to life! This "first-aid" kit for pinball machines contains a slew of coils, springs, balls, flippers, plungers, fuses, optos, and other various critical

parts for late-model Williams and Bally machines. This preventative maintenance kit will have what you need when you need it.

The 'Mission: Critical' Pinball Resource Kit has all of THIS:



- (4) EOS Switches (2) Left Crank Links
- (2) Right Crank Links
- (2) Flipper Coil Stops
- (2) FL-11629 Coils (2) FL-11630 Coils

- (1) AE-23-800 Coil (3) 01-5492 Armature Links
- (3) 01-5493 Armature Links
- (2) A-17316 Flipper Opto Assy's.
- (4) Coil Sleeves
- (2) Coil Plunger Assy's
- (4) Pop Bumper Springs
- (4) Flipper Retractor Springs (3) 1 1/16" Pinballs
- **Drop Targets**
- Microswitch
- (10) Ball Shooter Tips
- (2) Opto Transmitters
- (2) Opto Recievers

- (6) 4A Fuses
- (6) 5A Slow-Blo Fuses
- (6) 6.3A Fuses (6) .63A Fuses
- (4) Inner Shooter Rod Springs (4) Outer Shooter Rod Springs
- (2) Shooter Rods
- (2) Shooter Rod Sleeves
- (2) Pop Bumper Ring Assy's
- (2) Flipper Bats w/ Shafts

PinTip: Heat Shrink it!

Electrical tape is DEAD! Use heat shrink tubing to make more reliable and better looking wire connections, especially on coils. It doesn't come off like eletrical tape.

PinTip: 'Shroom Shooter

Don't operate your ball shooter with a worn or missing rubber plunger tip. The impact of the steel shooter rod against the ball will mushroom the end of the rod. Now it's impossible to remove the rod without cutting it!

PinTip: Housings

Replace connector housings that have burn or discolored spots so you'll be able to see if the connector overheats in the future.



PinTip: Fuse Follies

Never replace blown fuses with the wrong current or type! Fuses are designed into circutis so that they are damaged when something goes wrong, not expensive components. Always try to find out why a fuse has blown when replacing it.

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Moving Tools



The Classic PinLift



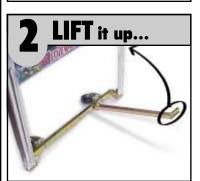


This dolly has been one of our shop favorites for years. It makes attaching and removing pinball legs a snap. Not only do the heavy-duty casters allow effortless movement of your machine in every direction, but its durable construction will provide decades of service. A simple step on the lever will raise the heaviest of machines, and the built-in shock absorber gently lowers your machine when you are finished. It stores easily underneath any machine.

#PBCL - Pinball lift \$399.95







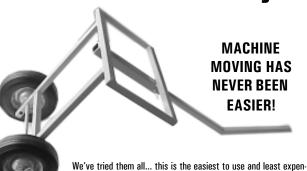


The newest device for easily moving metal leg pinball machines! One pair of lightweight (only 5 lbs ea!), portable *Pinball Skates* clips to the front and rear legs and makes maneuvering machines effortless. Just slide a skate between the game's legs, lift, clip, and roll! Works great on rental truck ramps!

#PBS Pinball Skates(pair) \$169.00

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Two-wheel Pinball Dolly



We've tried them all... this is the easiest to use and least expensive pinball moving cart available. Anyone can move a 400 pound pinball machine with one hand! The all-steel cart has big wheels that can go where the others can't. It has a tough enamel finish, and the wheels are the only moving parts. The two-position handle and axle adjust to any machine. It weighs only 33 pounds and is small enough to fit in the trunk of a car! It's cheaper than back surgery and a lot more fun.

#PBTW - Two-wheel Pinball Dolly



\$225.00

Free Shipping!

PinTip: Sun: The Enemy

Don't leave your machine exposed to direct sunlight outdoors on a hot day without covering your playfield (especially in a pickup truck bed). Your plastics could be melted!

PROTECT YOUR MACHINE

This VERY heavy gauge vinyl pinball cover protects your machine from the elements while being transported in an open vehicle or placed in storage. Form fit covers all machines with no disassembly.

#PMC - Pinball Cover......#69.95



Whether it's bad weather or rough moving conditions, this handy stretch wrap is great for waterproofing and protecting your machines on the move. It pulls tight and clings to itself for a quick covering on just about anything, especially your pinball machines. Keep a roll in the truck "just in case."

STRETCH WRAP

Marco Specialties Inc.
www.pinballmachine.com

om fax: 803-957-6974



How To Order:

Phone: (803) 957-5500 ^{10 a.m. to 7 p.m. EST} Fax Anytime: (800) 295-8458

Billing Information

E-mail: order@pinballmachine.com Internet: www.pinballmachine.com

Shipping Information

Mail this order form to: 5290 Platt Springs Rd Lexington SC 29073-9252

Name (First, Last)			THE	Use my billing	address as my shipping	address.
Daytime Phone Nur	ımber	Customer # (Optional)		Name (First, Last)		
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Address 2				Address 2		
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