

QUBICA  **AMF**

TOP PARTS

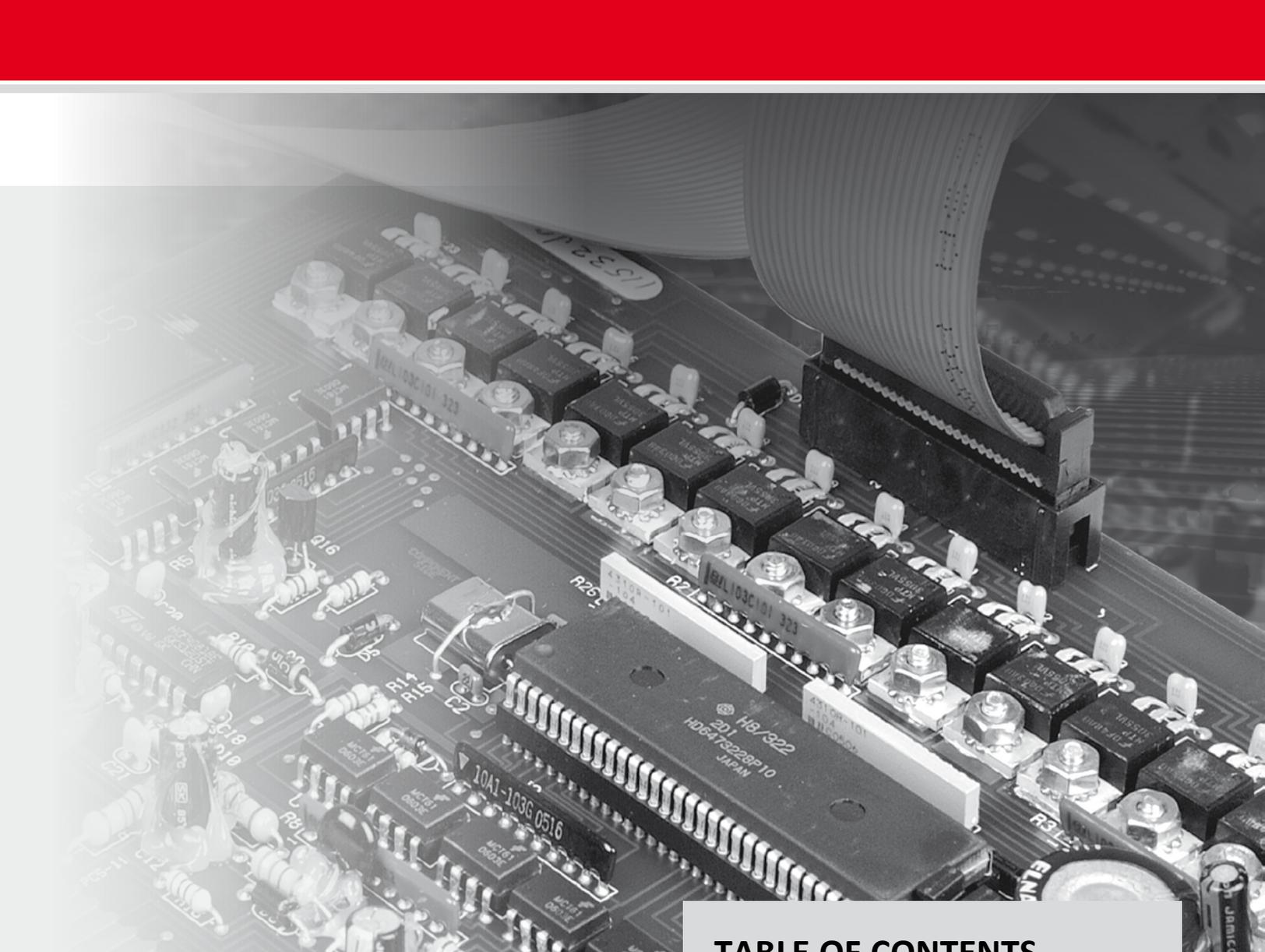


CHOOSING THE O.E.M. BRAND... ...HAS ITS ADVANTAGES

You will find that several of the Top Parts in this catalog are completely new, and many more have recently been improved in design, material, and construction. QubicaAMF has a reputation for “firsts” in bowling equipment innovation, and we honor our vast legacy by continuing to improve and expand in every way we can. We’re proud of our past, we’re committed to serving your needs today, and we’re always working toward improving our shared business in the future.

As the Original Equipment Manufacturer, we’re flattered by the many companies that make imitation parts for QubicaAMF pinspotters. But, before you consider QubicaAMF as “just another parts source,” consider the following:

- QubicaAMF continues to combine highly skilled engineers, veteran mechanics, and the latest design and manufacturing technology to develop new part ideas and improve on existing parts for the bowling industry.
- The Genuine AMF Parts business consistently out delivers all other brands in unit volume and dollar volume, order turnaround time and order fill rate, warranty claims and customer support.
- QubicaAMF stocks more parts for more generations of pinspotters than all other manufacturers combined. And that’s not counting any of the parts and supplies available for scoring systems, lanes, bumpers, ball returns, furniture, foulds, masks, lane chemicals, cleaners, shoes, socks, house balls, etc.
- We are the only company that builds new QubicaAMF Pinspotters - that means all of our products are the quality you’d expect to find in a brand-new machine.
- QubicaAMF is the largest American employer in the bowling equipment industry. Our main production facility in Richmond, Virginia, USA employs hundreds of Americans who take pride in their work and in their company’s past, present, and future.



DOES THIS CATALOG SHOW EVERY PART AVAILABLE FROM QUBICAAMF?

Not even close! These pages are filled only with our most popular items, as well as those things that you just won't find anywhere else. From small hardware pieces to complete upgrade kits, all of our most requested parts are here. Use the photos and descriptions to find exactly what you're looking for, without any confusion. QubicaAMF appreciates you and we value your business, whether you maintain AMF equipment that's one year old or fifty. We hope you find your Top Parts catalog useful, as well as interesting, and we thank you for choosing Genuine AMF Parts!

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SPRING - CAM LEVER

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 657

Ea



Everywhere a finger lever operates a microswitch, this spring keeps it tensioned properly. If faulty switch operation is causing machine problems, this spring might be missing or deformed.

SWITCH - MICRO

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 026 042 (Small Button)

000 026 043 (Big Button)

Ea



Controls electric signal in many locations on all generations of pinspotter. Knockoffs of this switch can be flaky. Stick with the original for reliable performance.

LOCKING SPRING CLIP & CATCH

82/70

000 029 013BG (Clip)

000 029 014BG (Catch)

BG



- These Clips and Catches mate together to secure the C-1 and C-2A plug connections between the machine and chassis.
- Keep these tight to prevent them from falling into the wireway below and causing short circuits.
- Secure with the proper Guide Pin 000 028 442 and Socket 000 028 443 with nuts 843 140 002.

C-1 PLUG BLOCKS

82/70

000 025 068 (Chassis Side)

000 025 144 (Machine Side)

Ea



Makes the high voltage connections between the machine chassis and the pinspotter.

- Cracks, loose/missing hardware, and other damage to C-1 and C-2A blocks is dangerous and causes electrical problems.
- Replace all questionable blocks and missing clips and keep all hardware tight for good electrical performance.
- Always use correct block for proper terminal identification.

C-2A PLUG BLOCKS

82/70

000 028 410 (Chassis Side)

000 028 409 (Machine Side)

Ea



Makes the low voltage/signal connections between the machine chassis and the pinspotter.

SWEEP & TABLE CONTACTOR

82/30, 82/70

610 704 141 (70 Kit)

070 011 755 (70 Relay Only)

610 003 037 (30 Kit)

030 006 526 (30 Relay Only)

Ea



Enclosed relay that replaces the original sweep and table contactors. Don't be fooled by modern replacement parts for original contactors. Stick with the safe, dependable, OEM choice.

SUPERSTAR AC CHASSIS

82/70

070 003 902

070 003 902-R - Repair/Exchange

Ea

The latest, most advanced version of the computer that controls each pinspotter.

- All of the features of a original MP chassis, plus diagnostic LED's and programmable functions.
- Now improved with a cooling fan, more robust electronic components, and resettable breakers that protect all highvoltage circuits.
- To replace an older SS chassis, choose the MP pgrade Kit 610 070 300.



CHASSIS RELAY - 24V COIL

82/70

070 005 515

Ea



The common "ice cube" relay in most chassis. In the SS chassis, SP relay 070 005 883 looks very similar, but it has a 10 VCC coil and is not interchangeable.

BACK END RELAY

82/70

000 025 863

Ea



Mounted to the wall of the chassis, this relay controls voltage to the Back End Motor.

- SS and early MP chassis use this relay.
- The terminal numbers are no longer the same as the original. Use terminal location and internal connection for wire location when installing.
- This was replaced in later MP's with sealed type 755 504 048.

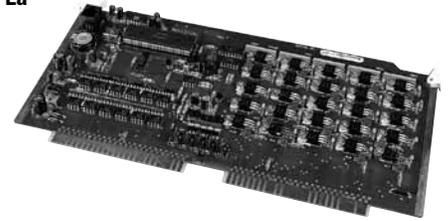
MP LOGIC BOARD WITH LED'S

82/70

070 009 860

070 009 860-R - Repair/Exchange

Ea



This board puts the microprocessor in the MicroProcessor Chassis. Processes the inputs and determines the outputs to control a 82/70. A direct replacement for all MP boards. Has diagnostic LED's and programmable options.

- A direct replacement for all MP boards.
- Has diagnostic LED's and programmable options.

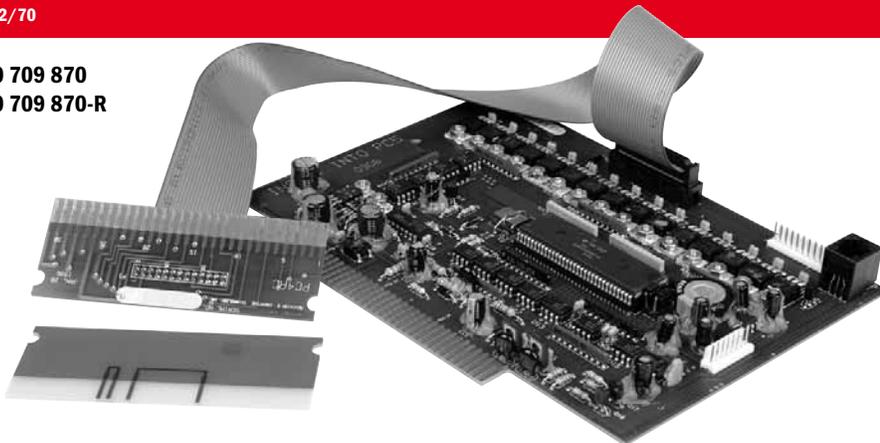
XOP BOARD

82/70

610 709 870

610 709 870-R

Ea



Replaces all five boards in a Solid State chassis.

- Installs in minutes.
- For short-cycle function with QubicaAMF scoring, add relay kit 070 009 872.

BALL DETECTOR CYCLE TRIGGER

82/30, 82/70, Brunswick A, Jetback, A-2

244 001 058

Ea



This system mounts just ahead of the machine and starts a machine cycle when a ball passes through it's infrared beam.

- Sturdy, dependable, easy to install and adjust as it has been for years.
- For best results, mount these to the underlane floor, independent of lane structure or machine vibration.

STRIKE/FOUL MASK BOARD

82/30, 82/70, Brunswick A, Jetback, A-2

612 362 068

Ea



82/90XL PINSPOTTER CONTROL CHASSIS

82/90XL

090 005 700-R (115 Volt) - Repair/Exchange
Ea

Chassis type most common on 82/90XL.
Four round C-23 type plugs connect machine signals and power on this chassis.

Replaceable items inside this chassis include:

- Breaker 743 513 028
- Spot/Lamp relay 755 520 074
- S & T Motor Relay 755 520 062
- Face Keypad Overlay 090 006 810
- Motor Capacitor 090 003 748 for 110V or 743 000 307 for 220V

Be sure there is no existing warranty on a chassis before breaking its seal.



90XL PINSPOTTER CONTROL CHASSIS

82/90XL

090 008 965CR-R - Repair/Exchange
Ea

Universal voltage and cycle “black chassis” for use with later model XL pinspotters.
All machine connections on this chassis are made with rectangular, white plugs.

Replaceable items inside this chassis include:

- Breaker 090 008 939
- Spot/Lamp relay 090 002 775
- S & T Motor Relay 755 520 062
- Motor Capacitor 743 000 307

Be sure there is no existing warranty on a chassis before breaking its seal.



MANAGER'S CONTROL UNIT

82/90XLi

610880057
Ea

This unit acts as a connection point and signal converter between pinspotters' chassis and most scoring control systems.

Each new unit comes packaged with a ball deflector reflector assembly, as they are both single items required with a new installation.



AMP WIRE TERMINALS

82/70, 82/90, 82/90XL

760 019 201BG (Socket)
760 011 197BG (Pin)
20/Bag



Though used in all AMP plugs, these wire terminals are mainly associated with the chassis connections on 82/70's.

- Always unplug the main power first before disconnecting any AMP plugs. Check pins and sockets for corrosion, burns, and proper seating every time you handle a plug.
- If a socket is suspect, insert a loose pin to test. Sockets may look OK, but be too loose to make a good connection.
- Use Extractor Tool 030 004 031 to remove terminals from plug blocks.

STRAIGHT TERMINALS

82/30, 82/70, 82/90, 82/90XL, 90XLI

760 017 044 (Small Gauge Wire)
760 017 036 (Large Gauge Wire)
Ea



These "faston" or "spade" terminals are used at most switch and other connections where quick disconnect is preferred.

- Strip about 1/8" insulation and crimp these and all terminals on the bare wire with the smaller set of tabs and on the insulation with the large set of tabs.
- Crimping tool 792 512 019 is made specifically for this purpose.

CHAIR TERMINAL

82/30, 82/70, 82/90, 82/90XL, 90XLI

760 001 070
Ea



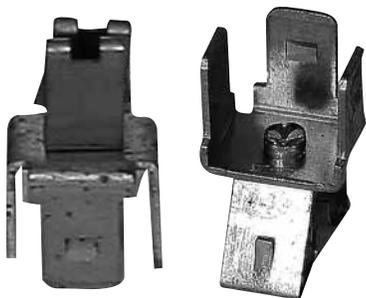
Where two wires connect on the same terminal, this is typically used to accommodate them.

In tight locations such as the A&MC Box, bend terminals slightly if necessary so that there is room between neighboring terminals to prevent shorting.

J-STRIP TERMINALS

82/30

760 002 061 (Brass)
760 002 063 (Silver)
Ea



These terminals seat into the J-strip and connect to the terminals on the machine chassis. Match the color for proper fit and operation. Silver terminals have locking tabs on both sides.



SOLENOID - 5/32" HOLE

82/30, 82/70

000 026 027 (110V)

000 027 873 (220V)

Ea



82/30 and early 82/70's use this solenoid to operate parts that determine if the table will pick up standing pins or spot new pins. 30's also use it for pinfeed toggles on their pin elevators.

Our solenoids have recently been improved to be more efficient and improve fit and clearance issues.

LOWER LINK - SPRING

82/70, 82/90, 82/90XL, 90XLI

070 006 282

Ea



The middle link under the Spotting Solenoid, held by two 070 006 277 Spring Caps and an 070 006 276 Spring. Be sure that the 070 006 280 Spring Clip at the bottom is adjusted to adequately stretch 070 006 283 Spring and disengage the spotting mechanism.

LOWER SPRING - SPOTTING SOLENOID

82/70, 82/90, 82/90XL, 90XLI

070 006 283

Ea



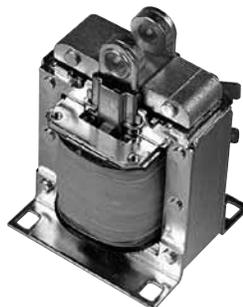
Located at the very bottom of the spot solenoid linkage, this spring stretches between Lower Link 070 006 282 and Spring Tab 070 006 280.

SOLENOID - 1/4" HOLE

82/70, 82/90

070 006 726 (110V)

Ea



Late 70's and early 82/90's without a white solenoid plug use this to engage pin spotting mechanisms.

UPPER LINK - SPRING 1/4" HOLE

82/70, 82/90, 82/90XL, 90XLI

070 006 724

Ea



If you have early 82/70's, use the 5/32" hole version, 070 006 281 and Shoulder Screw 000 028 391. Two of these are used in the spotting solenoid plunger linkage.

SPRING CAP WASHER

82/70, 82/90, 82/90XL, 90XLI

070 006 277

Ea



Two of these contain the spring in the spotting solenoid linkage.

UNIVERSAL SOLENOID

82/90XL, 90XLI

090 005 723

Ea



This dual voltage, dual cycle solenoid is used on late model machines, and can be fitted to earlier machines with Adapter Cable 090 003 739.

- QubicaAMF recommends the use of 2, 090 003 459 Dampener Bases with this solenoid to cushion the shock of solenoid operation.
- Replace crushed washers with 000 021 442BG on 82/70's, or 948 041 100 on 82/90 and later pinspotters.
- Universal Solenoid replaces 070 006 723, 220V Solenoid.

TABLE DRIVE ASSEMBLY

82/70, 82/90

070 001 840

Ea

Mounted at the end of the table driveshaft, this controls whether the table lowers to respotting height or to spotting height.

- Keep a spare assembly for quick replacement and convenient repairs.
- For machines with steel tables, use 090 005 550 instead.



DRIVE SHAFT - TABLE

82/70, 82/90

070 001 700

Ea

This shaft operates the table through its spotting and respotting operations.

- Inspect regularly for cracks around shuttle cam and keep splines greased to increase part life.
- For 82/90XL and 90XLi, order 090 005 565.



BEARING - CLEVIS ROD END

82/70, 82/90, 82/90XL, 90XLI

000 021 881

Ea



Two of these bearings go in the rod end between the Clevis and the Table Drive Eccentric. Often forgotten, these should be inspected regularly.

CAM FOLLOWER ASSY

82/70, 82/90, 82/90XL, 90XLI

610 704 002

Ea



These roller follow the cam surfaces and determine how the spot and respot arms pivot and operate the table mechanisms. Assemble to arm with a new Nut 844 070 002BG.

SPOT/RESPOT CAM

82/70, 82/90, 90XLI

070 001 910

Ea



Controls the operation of spotting cups and respot cells.

- Worn spot/respot cams are dangerous and inhibit good table adjustment.
- Also inspect cam followers 610 704 002.
- For 82/90XL machines with steel table, use 090 005 589.

HANGER - SPRING

82/70, 82/90, 82/90XL, 90XLI

070 001 751

Ea



Attaches Spot & Respot "crableg" arms to the 070 001 707 Springs. 090 005 576 Hanger is a direct replacement and makes it unnecessary to remove Pin 070 001 587 when servicing.

SPRING - SPOT & RESPOT ARMS

82/70, 82/90, 82/90XL, 90XLI

070 001 707

Ea



These green springs hold the spot & respot arms tight against the spot/respot cam. If the bracket for these on the machine frame breaks, use Repair Kit 070 007 761.

PIN - SPRING HANGER

82/70, 82/90, 82/90XL, 90XLI

070 001 587

Ea



Holds the three "green springs" 070 001 707 on the Spot and Respot Arm Hangers 070 001 751. Always use a new nut 839 665 002BG, and install using Spring Puller Tool 792 505 005.

CLAMP STUD - CAM

82/70, 82/90, 82/90XL, 90XLI

070 001 664

Ea



Secures the Sweep and Table cams onto their driveshafts. Use jam nut 835 549 002BG and snug, but don't overtighten.

ROLLER - COUNTERBALANCE SPRING

82/70, 82/90, 82/90XL, 90XLI

070 001 668

Ea



The two 000 022 782 Counterbalance Springs hook around this roller at the top - front end. If the pin for this roller needs to be replaced, order repair kit 610 704 103.

END FITTING - ADJ. TIE ROD

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 025 004 (RH Thread)

000 025 005 (LH Thread)

Ea



Used in tie rod assemblies on the Sweep and Table so adjustments can be made by turning the tube. Includes grease zerk for easy maintenance. Secure with Jam Nut RH 835 570 002BG or LH 835 670 002BG.

PILLOW BLOCK

82/30, 82/70

000 022 811

Ea



On 82/30's, it supports the table driveshaft, on 70's it supports the table torque tube and sweep rocker arm. Don't forget to lubricate these per your service manual and inspect regularly for cracks. For the strap portion only, you can order 030 003 938.

GREASE ZERK

82/30, 82/70, 82/90, 82/90XL, 90XLI

710 501 009

Ea



A direct replacement for most locations where a grease zerk is used all over all models of pinspotters. Common hardware items like this can be kept in quantity without being expensive or taking up too much space.

SPRING - SWEEP BRAKE

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 022 168

Ea



82/30 Sweep Brakes, 82/70 & later Bin Switch Levers. Springs make a big difference in pinspotter performance. Only your O.E.M. knows the right specifications.

X-WASHER - SWEEP & TABLE

82/30

030 001 358

Ea



This special washer is used in respot cells and on the sweep carriage assembly. Just one example of the many 30-exclusive parts you can still expect from your O.E.M. More than any other manufacturer!

URETHANE BUMPER - SWEEP LINK

82/70, 82/90

000 023 279

Ea



Goes through Sweep Stabilizer (top) Link 070 003 238. During regular inspection, or if your sweep "pops" when it starts down, make sure these are the correct thickness and not sticky. It is a direct replacement for obsolete rubber bumper 000 023 216.

SHOCK MOUNT - SWEEP

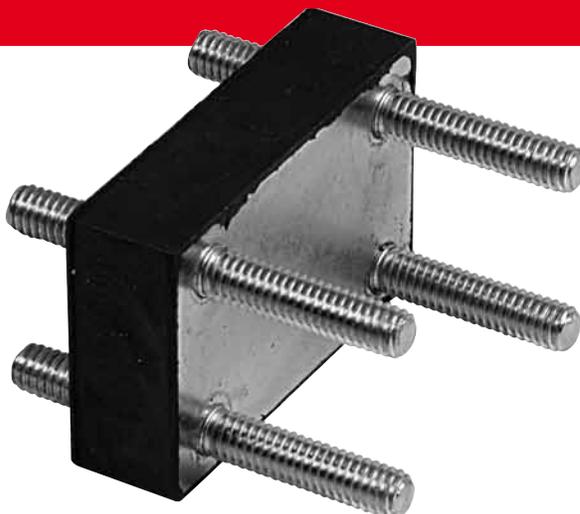
82/70, 82/90

070 003 195

Ea

Absorbs impact when a ball is delivered during a machine cycle.

- New, improved design locks studs in place with square holes, while enhanced rubber adhesion to plates makes it more resistant to tearing.
- Use with cast aluminum Sweep Link 070 003 184.
- Steel channel sweep links use Shock Mount 090 006 136 instead.



BUMPER - LINK ASSY

82/70, 82/90, 82/90XL, 90XLI

070 007 283

Ea



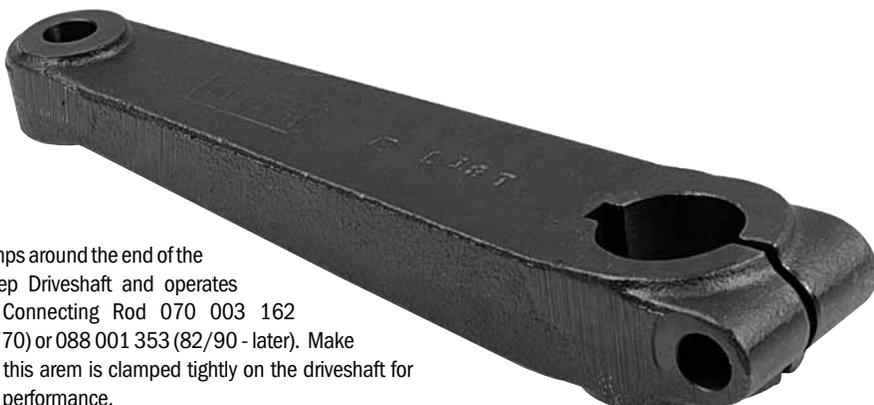
In the middle of the sweep telescoping links, this ring is essential to proper adjustment and operation of the sweep. Keep a supply of these on hand and inspect regularly.

CRANK ARM

82/70, 82/90, 82/90XL, 90XLI

000 023 139 (82/70)

Ea



Clamps around the end of the Sweep Driveshaft and operates the Connecting Rod 070 003 162 (82/70) or 088 001 353 (82/90 - later). Make sure this arm is clamped tightly on the driveshaft for best performance.

SLIDE BAR - SWEEP

82/30, 82/70, 82/90

000 023 182

Ea



Allows the sweep bar to raise safely if it comes down on a fallen pin. Use with sweep brackets 000 023 170 (10-side) and 000 023 171 (7-side).

THREADED LINK - SWEEP

82/70, 82/90

070 003 223

Ea



The "corn cob pipe" used to adjust sweep height at guard position. Always keep these links horizontal.

PIN BEARING - SWEEP LINK

82/70, 82/90

070 003 103

Ea



Cast sweep arm assemblies use these pins in the two "knuckles" where three links meet.

- Lubricate per your service manual.
- During maintenance, don't forget Retaining Rings 919 010 700BG.

SWEEP STABILIZER LINK ASSY

82/70, 82/90

070 003 238

Ea



The top link in the sweep arm assembly, complete with bushings and bumper.

- A direct replacement for 090 003 903.
- Machines with steel links use 090 006 139 instead.

DRIVE LINK - SWEEP

82/70, 82/90, 82/90XL, 90XLI

070 003 158

Ea

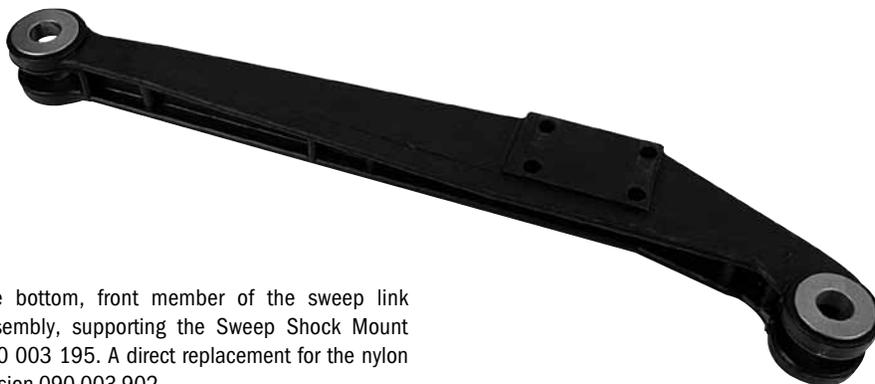


SUPPORT LINK ASSEMBLY

82/70, 82/90

070 003 184

Ea



The bottom, front member of the sweep link assembly, supporting the Sweep Shock Mount 070 003 195. A direct replacement for the nylon version 090 003 902.

LINK ASSEMBLY

82/70, 82/90

070 003 242

Ea



In machines that don't have steel channel sweep links, three of these connect to give the sweep links their pantograph action. This aluminum link is a direct replacement for 090 007 319 and 090 003 901.

SWEEP BAR & CAP ASSY

82/70, 82/90

300 000 182

Ea



This is the bar that bowlers see during each machine cycle. It sweeps away dead pins and protects other machine parts from balls thrown during a cycle. Virtually indestructible, this unit comes complete with black light-glow decal and 300 000 175 gutter "eyebrows" to clear pins in the flat gutters.

SWEEP BRACKETS, SLIDE-FREE

82/70, 82/90

090 001 170 (10-side)

090 001 171 (7-side)

Ea



These brackets connect the sweep bar to the sweep shock mounts and don't use sliders like older versions did.

- Replaces sweep slide bars and all related LH-RH parts.
- Reduces pin-in-channel calls.
- Makes sweep height & timing adjustments easier.
- Only for machines with aluminum sweep arms and plastic sweep bars. 90XL and later machines with steel channel sweep links use 090 006 129 (7-side) and 090 006 130 (10-side).



SWEEP BAR DECALS

82/30, 82/70, 82/90, 82/90XL, 90XLI

090 006 166 (Black-Wht Letters)
088 001 089 (QubicaAMF)
Ea



Four different versions of the decal that goes on the sweep bar. All except the original version with white background glow in blacklight.

SWEEP CONVERSION KIT (PAIR)

82/30, 82/70

610 700 150 (Sliders)
610 703 060 (Slide Free)
1 Kit per lane pair



Old style tube sweep assemblies can be replaced with this simple kit.

- Your bowlers may think you got new machines when they see these sweeps.
- Easy to install.
- Slide-free kit is for 82/70 and later only.

WASHER - SLOTTED

82/70, 82/90, 82/90XL, 90XLI

000 021 784

Ea



“Pac-Man” washers are used to adjust side-to-side level of tables with 1-piece supports. Comes in handy wherever a shim is necessary, all over the center!

SPRING - COUNTER BALANCE

82/30, 82/70, 82/90, 82/90XL, 82/90XLI

000 022 782

Ea



Helps the table on it's way up after spotting or respotting pins. This spring should be present on both sides of the table to avoid premature wear on the drivetrain.

GRIPPER PAD

82/30, 82/70, 82/90, 82/90XL, 90XLI

030 008 542

Ea



Two of these grip each standing pin in an 82/30 respot cell. Change these in pairs for proper respot cell operation.

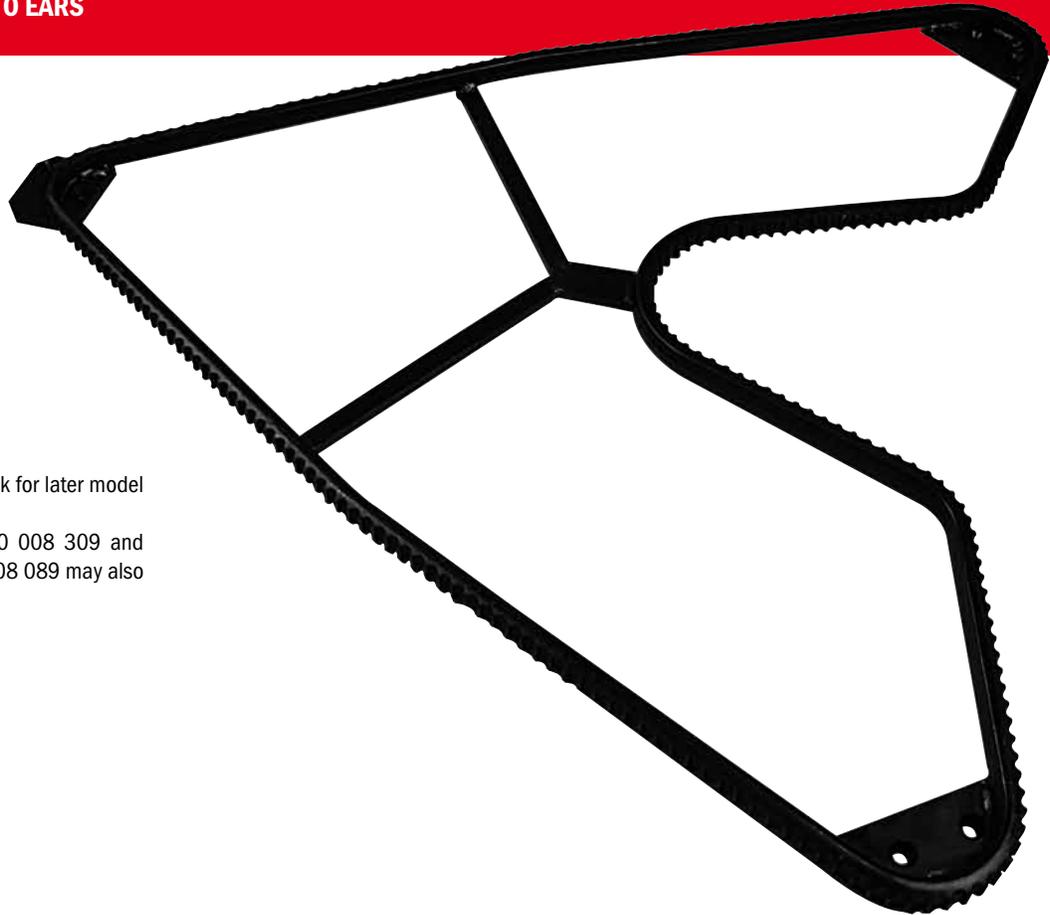


DISTRIBUTOR TRACK W/O EARS

82/30

030 008 310

Ea



Fabricated steel replacement track for later model 82/30s.

Track Support Bracket Short 030 008 309 and Top Track Support Bracket 030 008 089 may also need replacement.

SPOTTING CUP LINERS

82/30

030 007 634 (10-Side)**030 007 635 (7-Side)****Ea**

Provides a smooth surface for better pin transfer and reduced wear. Attach to cup halves with Long Clip 030 007 849 and Short Clip 030 008 235.

SPHERICAL BEARING

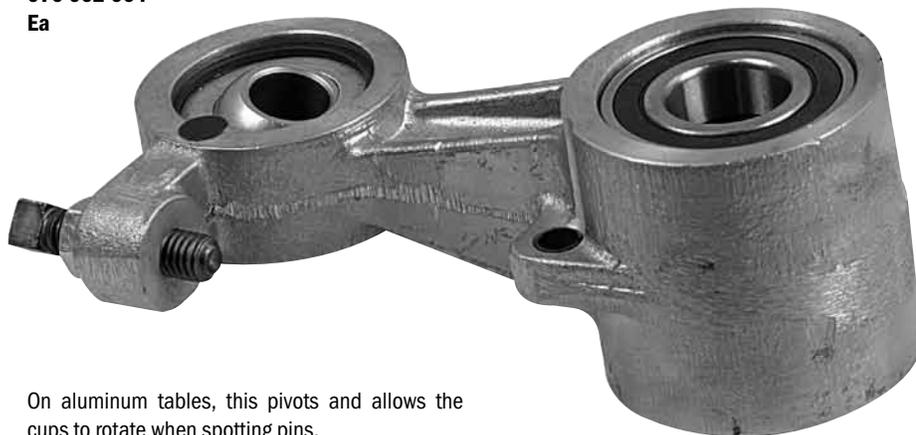
82/70, 82/90, 82/90XL

070 002 698**Ea**

On aluminum tables, this replaces the bearing in the bottom of all 4 yoke legs. Steel tables use different legs, 090 005 545 in front and 090 005 548 in back.

LEG ASSY FRONT LH (7 SIDE)

82/70, 82/90, 82/90XL

070 002 664**Ea**

On aluminum tables, this pivots and allows the cups to rotate when spotting pins. The big 070 002 596 spring stretches between this part and the table casting.

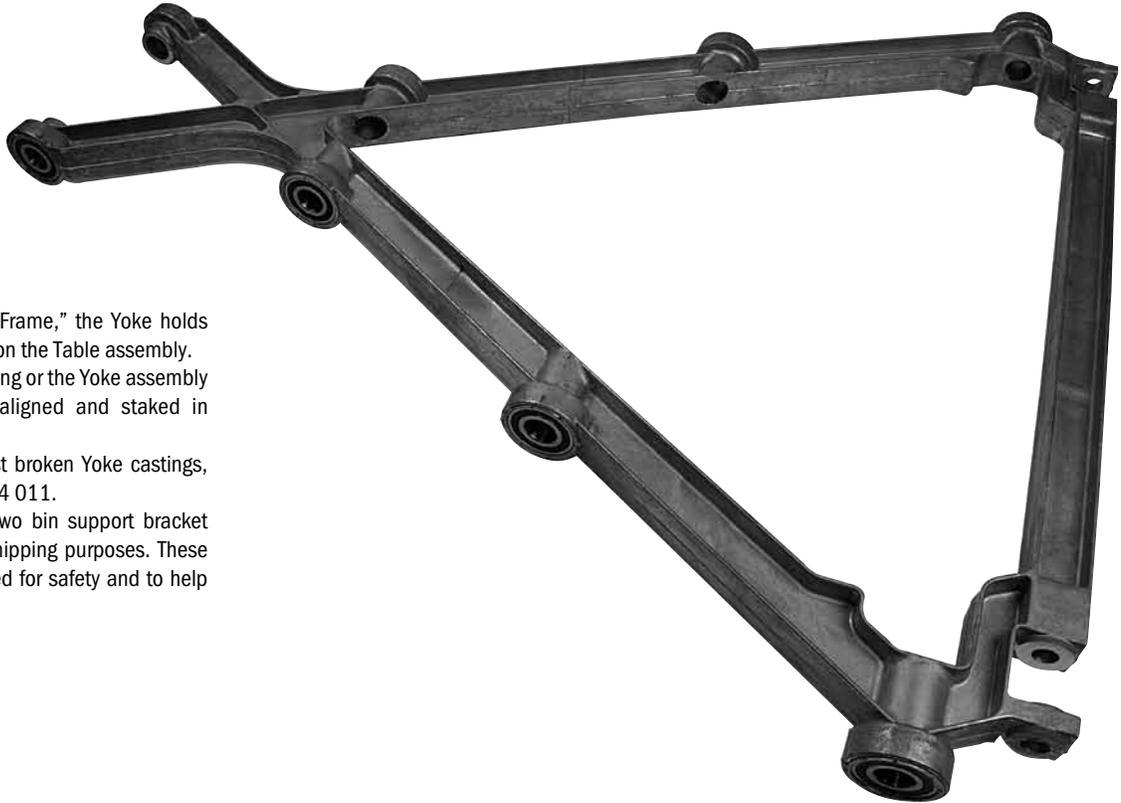
YOKE & BEARING ASSY

82/70, 82/90, 82/90XL, 90XLI

070 002 623 (Assembly)

070 002 683 (Yoke only)

Ea



Sometimes called the “X-Frame,” the Yoke holds the spotting mechanisms on the Table assembly.

- Order just the Yoke casting or the Yoke assembly with bearings factory aligned and staked in place.
- For quick repair of most broken Yoke castings, order Repair Kit 610 704 011.
- There are pins in the two bin support bracket studs at the front for shipping purposes. These pins need to be removed for safety and to help prevent yoke breakage.

AMF 82-70 / 90 DAILY PREVENTIVE MAINTENANCE

CENTER: _____ MONTH: _____ YEAR: _____

Day of the month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Check the call sheets for the previous day, transfer calls to stop summary																															
Cycle / check machines, pinspotting, sweeps, foul lights, related equipment.																															
Investigate / correct machines that have developed a malfunction pattern.																															
Clean Balllift belts, Pin elevator, Pin guide, Orienter pan																															
Keep work area, workbench, service aisle clean and orderly																															
Empty trash cans																															
Assign and record completed PM on the PM charts																															

SPRING - LATERAL DRIVE

82/70, 82/90, 82/90XL, 90XLI

000 026 032

Ea



Steel tables use two of these springs to pull the yoke forward. If the spring stud has pulled through the table casting on an aluminum table, it can be replaced by two of these springs and related parts as shown in any steel table parts manual.

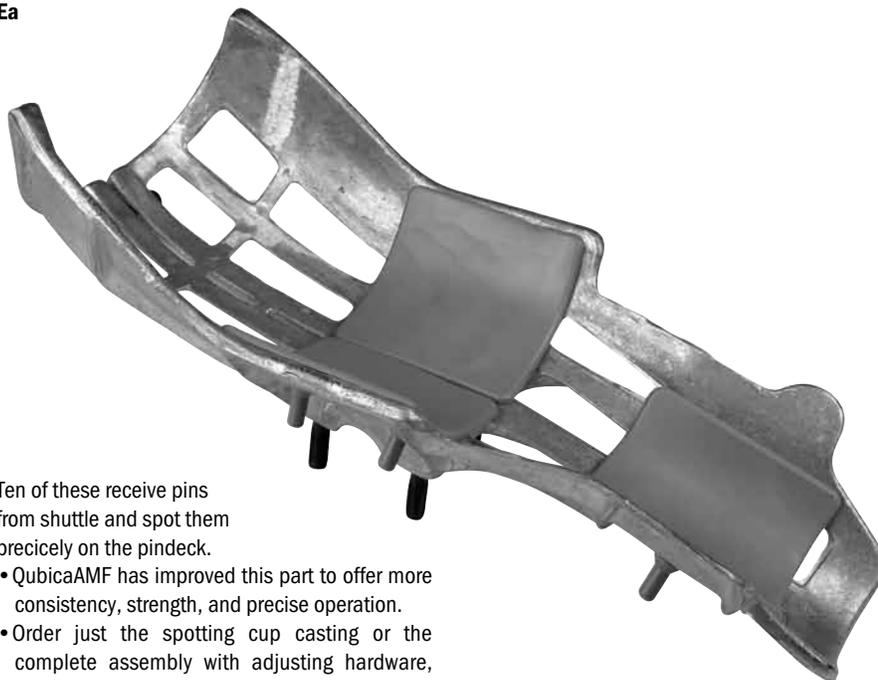
SPOTTING CUP

82/70, 82/90, 82/90XL, 90XLI

070 002 808 (Complete Assembly)

070 002 809 (Cup Only)

Ea



Ten of these receive pins from shuttle and spot them precisely on the pindeck.

- QubicaAMF has improved this part to offer more consistency, strength, and precise operation.
- Order just the spotting cup casting or the complete assembly with adjusting hardware, U-bolts, and liners installed.

LINER - SPOTTING CUP

82/70, 82/90, 82/90XL, 90XLI

070 002 784

Ea



Three liners mount in each spotting cup to improve pin shutting and spotting.

- Different from the PBL Lift Arm Liner, this material has been specialized to eliminate pin sticking and gumming.
- If it's difficult to install, try warming up the pull tabs first.

CAP - SPOTTING CUP

82/70, 82/90, 82/90XL, 90XLI

070 002 788

Ea



Mates with shaft and U-Bolts 070 002 787BG to position spotting cups. Unsurpassed QubicaAMF engineering and manufacturing control make this the best cap on the market.

FRAME - RESPOT WELDMENT

82/70, 82/90, 82/90XL

070 002 792

Ea



The original and still the best frame for aluminum table respot cells.

- Includes threaded weldnuts for mounting.
- If the center stud is the only problem, try a Replacement Stud 070 002 650 and Nut 840 049 002BG.

BUMPER - RESPOT CELL

82/70, 82/90, 82/90XL

070 002 752BG

Bag of 2



These bumpers should be glued onto the tabs on each respot cell frame.

- For respot cells on aluminum tables.
- Packaged in pairs.

YOKE ASSY - RESPOT CELL

82/70, 82/90, 82/90XL, 90XLI

070 002 629 (Aluminum Table)

090 004 118 (Steel Table)

Ea



The main body of respot cell mechanisms. New advances in casting technology make this part more precise than ever.

TOP PLATE ASSY - RS YOKE

82/70, 82/90, 82/90XL, 90XLI

070 002 644

Ea



The best item to top off a great respot cell. A direct replacement for 070 002 695.

ARM - RESPOT YOKE ASSEMBLY

070 002 646

Ea



Aluminum Table Respot Cells depend on this assembly for adjustment and proper fit. Often imitated, only the Genuine AMF Parts Yoke Assembly can be trusted for years of trouble-free service.

ARM - RESPOT YOKE ASSEMBLY

82/90XL, 90XLI

090 004 113

Ea



SCREW ADJUST - RESPOT CELL

82/70, 82/90

070 002 632BG

Bag 10



SHAFT - RESPOT LEVER

82/70, 82/90, 82/90XL, 90XLI

070 002 645

Ea



LEVER RESPOT ASSY

82/70, 82/90, 82/90XL

070 002 633 (1/4" hole)
070 007 618 (5/16" hole)
Ea



This lever is what is driven by the "carb link" to open the respot cell on cast aluminum tables.

- 070 002 633 is the respot cell lever for use with 1/4" pivot studs 070 002 654BG.
- Select 070 007 618 for use with common 5/16" Pivot Studs 070 007 617BG.

RESPOT PIVOT

82/90XL, 90XLI

090 005 504
Ea



Each respot cell lever pivots about this stud on stamped steel tables.
Secure with carriage bolt 801 149 100.

RESPOT FINGER

82/70, 82/90, 82/90XL, 90XLI

090 004 123
Ea



Two of these lock onto the neck of each standing pin and pick it up.

- With square holes at the end, this is a direct replacement for the old version, 070 007 261.
- Kit 610 903 709 is for rebuilding and updating old respot cells.

COMPLETE RESPOT CELL ASSY

82/70, 82/90

070 007 200
Ea

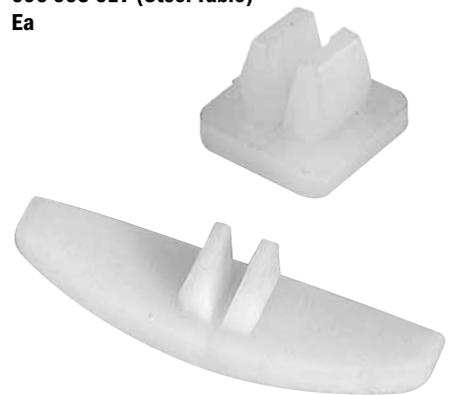


The complete assembly that picks up each standing pin while fallen pins are swept away. Used for pins #1-6 and 8-10. The #7 cell is different from the rest, and there are two different versions of the #7 cell. Early 82/70's with long carb link use #7 Cell 070 007 199. Most have a bolt connection at the #7 cell and use the 070 006 674.

FINGER GLIDE INSERT

82/70, 82/90, 82/90XL, 90XLI

792 506 033 (Aluminum Table)
090 005 617 (Steel Table)
Ea



This allows the tips of the fingers to slide smoothly at the edge of the cell opening. Our original 82/70 roll pin type glides are still available, order 070 007 197BG.

RESPOT LEVER

82/70, 82/90, 82/90XL, 90XLI

070 007 623 (1/4 pivot hole)
070 002 678 (5/16 pivot hole)
 Ea



This lever operates each row of respot cells via each wireway/link.

- Early model 82/70's use 1/4" Pivot Pins 070 002 681BG.
- Later aluminum tables use 5/16" Pivot Pins 070 007 616BG.
- All steel tables use Pivot Pin 090 005 503.

SCREW - CAM LINK

82/70, 82/90, 82/90XLI

070 002 733
 Ea



This is a special screw that goes through the 070 002 583 Actuating Link "Bellcrank." Spring 070 002 732BG hooks into this screw and stretches to Bracket 070 002 734.

LINK ASSY - RESPOT CELL

82/70, 82/90, 82/90XL, 90XLI

070 002 814
 Ea



These links operate the respot cells and are used to make maximum open adjustments. Older 82/70's have a long carb link 070 002 813 between the wireway and the #7 respot cell.

RESPOT FINGER SPRING

82/70, 82/90, 82/90XL, 90XLI

070 001 807
 Ea



This spring points the "finger link" or "pawl" out and helps it shift during respotting. Screws onto Pivot Weldment 070 001 804 on aluminum tables, or 090 005 631 on steel tables.

CLIP - BALL JOINT

82/70, 82/90, 82/90XL, 90XLI

730 036 025 (Silver)
730 035 025 (Brass)
 Ea



Yes, end clips are available separately! Match color with rod assembly for the proper fit. These clips snap onto ball studs in carburetor linktype connections including respot cells, Spotting Latch Link 070 006 493, and Distributor Trip Cable 070 011 170.

BUMPER - BIN ASSY

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 021 992BG
Bag of 10



Most commonly used for protecting pins in the Bin assembly, this bumper is also for the start switch lever, and for closed pinwheels on early 82/30's. Made of 100% neoprene rubber for best performance. File off any sharp metal edges around mounting holes prior to installing. Twist them as you press them into place. Some mechanics use a drop of liquid dishsoap on the round surface to help ease installation.

PIN EAR GUIDE

82/70, 82/90, 82/90XL, 90XLI

070 006 380 (7 Side)
070 006 381 (10 Side)
Ea

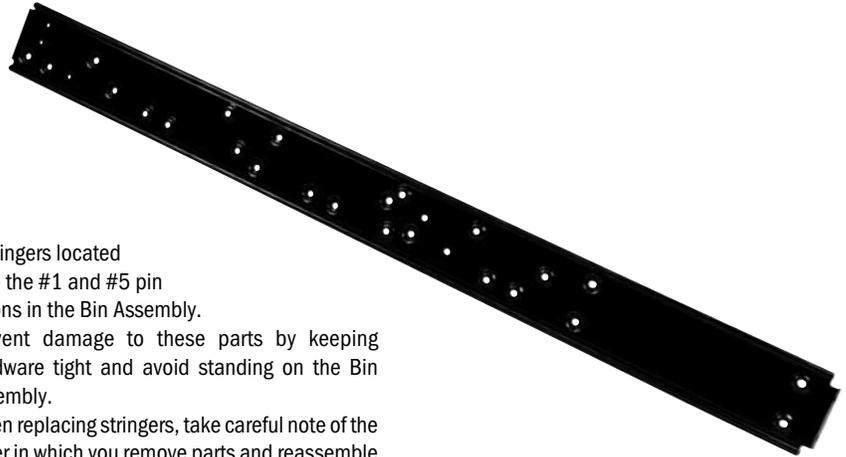


As the name suggests, this part helps pins find their places in the Bin Assembly. Double-stacked pins might sometimes end up laying across the top of the stringers. A popular trick to prevent this problem is to mount these guides with their points pointing upward, between the stringer and the Pin Guide 070 006 353.

STRINGER - CENTER RH & LH

82/70, 82/90, 82/90XL, 90XLI

070 006 372 (10 Side)
070 006 373 (7 Side)
Ea



The stringers located beside the #1 and #5 pin positions in the Bin Assembly.

- Prevent damage to these parts by keeping hardware tight and avoid standing on the Bin Assembly.
- When replacing stringers, take careful note of the order in which you remove parts and reassemble in reverse order.

PIN BUTT GUIDE & PIN HEAD GUIDE

82/70, 82/90, 82/90XL, 90XLI

070 006 364 (Butt Guide)
070 006 366 (Head Guide)
Ea



These are located throughout the Bin Assembly and locate each pin as it falls in from the Distributor. When replacing, hold the mounting face of Shock Mount 070 006 354BG tight against the butt guide as you tighten the screws. This helps prevent twisting during installation and premature failure.

PIN GUIDE

82/70, 82/90, 82/90XL, 90XLI

070 006 353
Ea



Two of these in each pin location help keep the pins centered in their bins. In the #9 position, this part is supposed to get bent as it is installed, to accommodate Spacer 070 006 390.

STRAP - SHUTTLE ASSEMBLY

82/70, 82/90, 82/90XL, 90XLI

070 006 268
Ea



These can be placed across any pin location in the Shuttle.

- They help strengthen the assembly.
- Straps help prevent shuttle tube bending.
 - Easy to install in any pin location.

SUPER PIN HOLDER

82/70, 82/90, 82/90XL, 90XLI

088 001 211

Ea



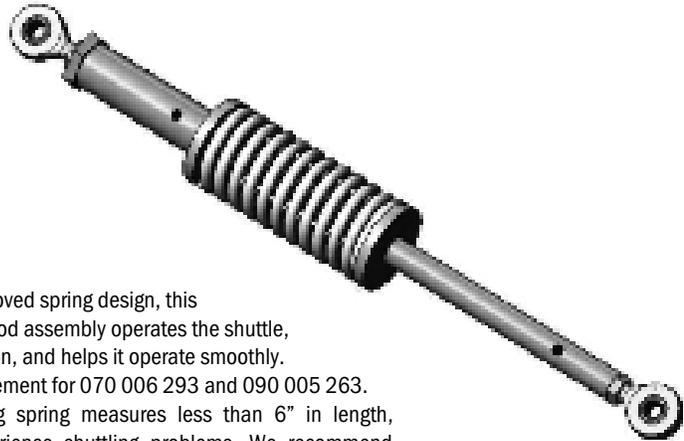
A direct replacement for the original Pin Holder 070 006 265, this new pin holder helps prevent double shuttles, wears like iron, and will never change shape or get gummy.

SHUTTLE OPERATOR ROD ASSY

82/70, 82/90, 82/90XL, 90XLI

088 001 631

Ea



Now with an improved spring design, this sprung tube and rod assembly operates the shuttle, adjusts it's position, and helps it operate smoothly.

- A direct replacement for 070 006 293 and 090 005 263.
- If your existing spring measures less than 6" in length, you may experience shuttling problems. We recommend replacement with this new assembly.

AMF 82-70 / 90 WEEKLY PREVENTIVE MAINTENANCE

CENTER: _____ MONTH: _____ YEAR: _____

Day of the month	1	2	3	4	5
Clean shuttle and bin					
Check ball door exit, door rings, segments, fillers, paddle, LBS operation, repair as needed					
Clean pit carpet belt, clean under the machine					
Clean, pin curtain, pit cushion and tube weldment					
Tighten plows, check for cracks, replace as needed					
Change ball wipes, do not turn them inside out					
Inspect distributor, observe for proper operation, correct as needed					

DISTRIBUTOR ASSEMBLY

82/70, 82/90, 82/90XL, 90XLI

610 704 032

Ea



This is the complete assembly that carries pins from the pin elevator to their respective locations in the bin assembly. Along with a Distributor Mount 090 003 112 and Post 070 006 045, a spare Distributor can be mounted on a workbench for service and easy replacement.

POLY-V DISTRIBUTOR BELT

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 011 909 (82/70-Later)**030 006 789 (82/30)**

Ea

This constantly-moving belt carries pins from the Orientor Pan at the back of the Distributor to the Trip Arms at the front.

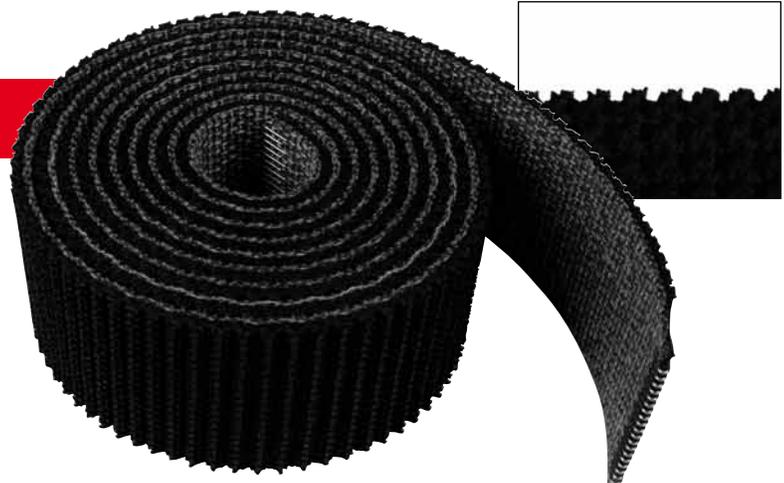
- The most successful distributor belt in history, now available for 82/30's too!
- Manages dirt and oil automatically.
- New, improved Unibar® lacing included.
- Belt is extra long so you can find just the right length for your distributor.

**ROUGH TOP DISTRIBUTOR BELT**

82/70, 82/90, 82/90XL, 90XLI

070 006 757 (Individual)**610 709 811 (3-Pack w/Laces)**

Ea



DISTRIBUTOR

GREY GRIPPER DISTRIBUTOR BELT

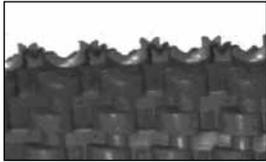
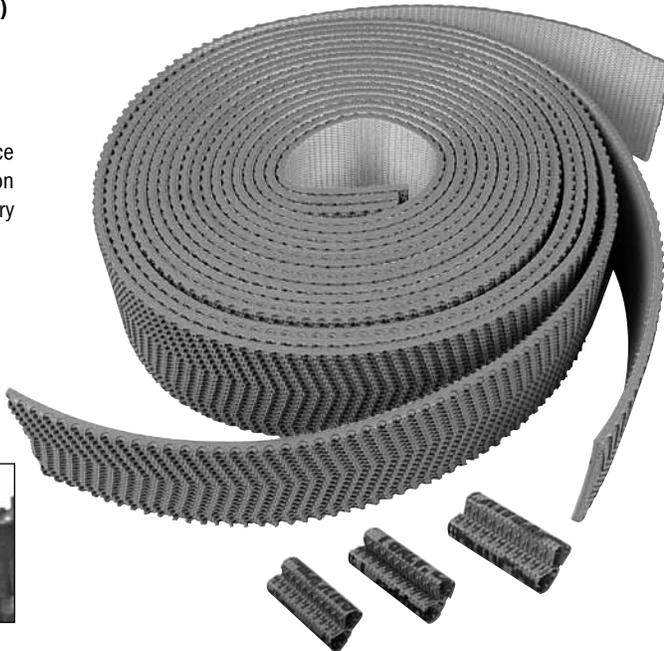
82/30, 82/70, 82/90, 82/90XL, 90XLI

070 011 905 (82/70-Later)

030 006 789 (82/30)

Ea

A radically textured surface and special PVC formulation make this thick belt very popular.



TRACKING BRACKET - DISTRIBUTOR

82/70, 82/90, 82/90XL, 90XLI

070 006 106

Ea



At the bottom of the Distributor Belt's "S" curve, this bracket tensions the belt and helps it track properly. Keep your brackets aligned and seated properly around Tube Assembly 070 006 105.

LINK - ROLLER ASSEMBLY - DIST

82/70, 82/90, 82/90XL, 90XLI

070 006 109

Ea

On both sides of the Tracking Bracket, these links pivot to ensure proper belt operation.

- Loose belt lacings can wear these links down to be paper-thin and eventually break. Trim off loose hooks at the edges of the belt and ensure it tracks on center.
- When replacing a distributor belt, don't bother removing the spring - just slide the Carl Klauck Distributor Tool 000 200 000 between this link and the casting.



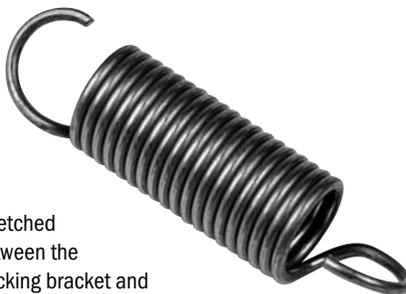
SPRING - DISTRIBUTOR BELT TENSION

82/70, 82/90, 82/90XL, 90XLI

000 026 031

Ea

Stretched between the tracking bracket and carriage support, this spring keeps the distributor belt tight and helps it track properly. Many mechanics have a large flat blade screwdriver with a notch carved in the side to help install this spring.



BEARING - 1 3/8 O.D. X 5/8 I.D.

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 679

Ea

Very common bearing used in the Distributor, Kicker Shaft, and PBL Ratchet Drive Crank. A good item to have several of on hand.



SPRING - LATERAL DRIVE

82/70, 82/90, 82/90XL, 90XLI

000 026 032**Ea**

On the back of the distributor, this spring helps the system operate smoothly as it moves side-to-side. Springs weaken over time - inspect this for proper hook shape and coil tension.

SPRING - SAFETY LINK - DIST

82/70, 82/90, 82/90XL, 90XLI

070 006 030**Ea**

Parallel to the Safety Link, this heavy spring helps balance and control the distributor as it indexes around the bin.

- Check the Spring Tab 070 006 068. If it is bent, the spring can't do it's job.
- Springs get weaker over time and may need to be replaced even when they look acceptable.

ROD - SAFETY LINK - DISTRIBUTOR

82/70, 82/90, 82/90XL, 90XLI

070 006 067**Ea**

On the side of the distributor, the Safety Link prevents damage should the Distributor be jarred out of position, and works with the balancing system to aim and maintain smooth operation of the Distributor.

- Erratic indexing can be caused by bent or sloppy rod ends.
- Inspect regularly and keep this area greased per your service manual.

DISTRIBUTOR

LINEAR SPRING - DISTRIBUTOR

82/70, 82/90, 82/90XL, 90XLI

070 006 034

Ea



Underneath the Distributor Assembly, this spring keeps the Cam Follower against the Indexing Cam while the Carriage extends to 1, 5, and 6. If this spring needs to be overstretched or doubled-up to extend the Carriage, try shortening the belt or cleaning and repacking bearings in the 070 006 011 belt rollers.

STUD CLAMP - CARRIAGE

82/70, 82/90, 82/90XL, 90XLI

070 006 116

Ea



This 1/4-20 Stud Clamp is used extensively in the Carriage Assembly and in the Spotting Linkage Assembly on the front end. Like all Stud Clamps, the nut on this should be snug but never overtightened.

BUMPER

82/70, 82/90, 82/90XL, 90XLI

070 006 142BG

Bag 10



Used to cushion moving parts all over the Distributor, this small bumper can also be found in the PBL Ratchet Crank, behind the Bin Switch Lever, and under the Spotting Solenoid on 82/70's. Washer 948 767 132BG can be sandwiched under the bumper head to adjust the stopping position of moving parts if necessary.

CARRIAGE TUBE - DISTRIBUTOR

82/70, 82/90, 82/90XL, 90XLI

070 006 004

Ea

Two of these tubes support and guide the front carriage of the distributor assembly.

- It's essential to keep these tubes clean, straight, and free of grooves and divots.
- If they are divoted but not bent, you can swap them side-for-side to double their service life.

TRIP ARM ASSY

82/70, 82/90, 82/90XL, 90XLI

070 006 015 (7 Side)

070 006 016 (10 Side)

Ea



As pins fall off the end of the distributor, they push down these arms and advance the distributor to its next position. Bearings that are missing or that don't spin freely should be replaced with Bearing 000 026 251BG, Screw 813 540 082BG, and Lockwasher 957 100 002BG.

ECCENTRIC AND CONCENTRIC ROLLERS - CARRIAGE TUBE

82/70, 82/90, 82/90XL, 90XLI

070 006 117 (Concentric)

070 006 118 (Eccentric)

Ea



These are used to make Distributor parallel adjustments and let the Carriage move smoothly forward and back.

- O.E.M. bearings are the best available, sealed to prevent contamination and eliminate slop.
- Check regularly for smooth operation, looseness around internal balls, and excessive Carriage side-to-side play.

TRIP CABLE

82/70, 82/90, 82/90XL, 90XLI

070 011 170

Ea



As pins push down the trip arms when they're leaving the distributor, this cable trips the rocker arm and begins the index to the next location.

A direct replacement for the old trip rod 070 007 305.

SLEEVE - PIVOT TRIP ASSY

82/70, 82/90, 82/90XL, 90XLI

070 006 685

Ea



Where the trip casting pivots to index the distributor to its next position, this sleeve belongs between the screw and bushing.

- Binds during indexing can happen in this area if it is not lubricated properly or if the Bushing is not seated firmly in the casting 090 006 665.
- Very early 82/70's used a longer sleeve, 070 006 087.

STOP BLADES

82/70, 82/90, 82/90XL, 90XLI

070 006 691

Ea



Bolted to the Trip Casting, this part engages the clutch to index the distributor when tripped. If these are binding, the contact surfaces may need to be greased, or may have changed shape from wear.

TRIP ROD & CASTING ASSEMBLY

82/70, 82/90, 82/90XL, 90XLI

090 006 668

Ea



Rocker arm rollers push the rod in this assembly up and down, which operates the stop blades and starts an index.

- Key and bolt system locks the rod and casting together.
- Solid, heavy design makes cable length and clutch pressure adjustment easier.
- Comes with bushing installed.
- The key components in this assembly are 090 006 663 Rod and 090 006 665 Casting.

SPRING - DISTRIBUTOR CARRIAGE

82/70, 82/90, 82/90XL, 90XLI

070 006 035

Ea



On the 7-pin side of the distributor, this spring is essential to proper indexing as pins fall off the end of the distributor and the trip mechanism operates. Keep the spring, collar, and shaft in place with 919 006 800BG Internal Tooth Washer.

BUSHING - TRIP CASTING

82/70, 82/90, 82/90XL, 90XLI

701 710 098 (Nylon)

701 712 097 (Brass)

Ea



This bushing is pressed into the Trip Casting and is key to proper operation of the trip components on the Distributor. Keep this bushing pressed squarely into bolt-type Casting 090 006 665 or old roll pin type Casting 070 006 667.

PINION & SLEEVE ASSEMBLY

82/70, 82/90, 82/90XL, 90XLI

610 704 005

Ea



Replaces the most common wear items in the clutch assembly. To replace all clutch wear items, order Complete Clutch Rebuild Kit 612 700 001.

SUPPORT GUIDE LH & RH

82/70, 82/90, 82/90XL, 90XLI

070 006 103 (7-Side)

070 006 104 (10-Side)

Ea



On each side of the Distributor, these guides keep the pins on track as they travel past while helping stabilize the assembly.

Prevent damage to related parts - don't wait to replace cracked or bent Support Guides.

ORIENTOR PAN

82/70, 82/90, 82/90XL, 90XLI

090 003 077

Ea



Often referred to as the "O-Pan" or "Turn Pan," this adjustable pan accepts pins from the elevator and positions them butt-first onto the distributor belt.

- A direct replacement for 070 006 144.
- The back edge of the pan should be as close as possible to the elevator wheel, but not touch it unless pushed outside of the 7 or 10 positions.
- The front flanges will spread apart over time. These need to be parallel with and flush against the support guides.

ORIENTOR PAN WIPE

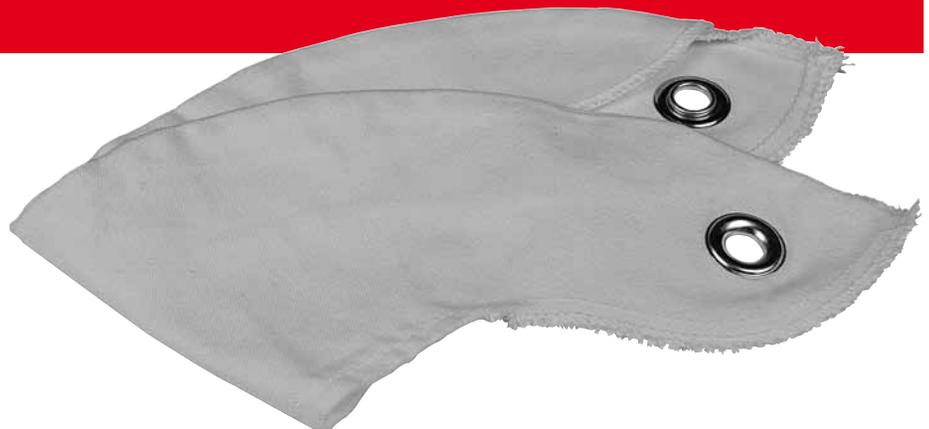
82/30, 82/70, 82/90, 82/90XL, 90XLI

070 011 910

Ea

An add-on to the Orientor Pan devised to remove lane oil from pins.

- Removes dirt and oil from pins as they pass onto distributor.
- Slows pin transfer to prevent pins falling off side.
- Machine washable, change in seconds.



SLEEVE & BUSHING - PINION

82/70, 82/90, 82/90XL, 90XLI

070 006 676 (Sleeve)
070 006 679 (Bushing)
Ea



These items fit between the Pinion Gear and the Drive Shaft, allowing the clutch to stay stationary while the drive shaft rotates.

- Replace only these critical wear items when other distributor drive components are OK.
- Unmatched precision in part consistency and proper dimensions.
- For best results, coat bushing, sleeve, shaft, and mating washer with a light film of Pinion Lubricant 715 010 205.

FRICTION DISC

82/70, 82/90, 82/90XL, 90XLI

070 006 126
Ea



At the center of the Clutch assembly, the Friction Disc transfers rotation to the pinion gear to index between pin positions.

New forming process guarantees consistent, smooth friction faces, free of mold marks and flashings.

KIT - CLUTCH PLATE ASSY.

82/70, 82/90, 82/90XL, 90XLI

610 704 006
Ea



When stop blade wear or clutch plate - pinion slop is causing pin pileups, eliminate the problem with this kit.

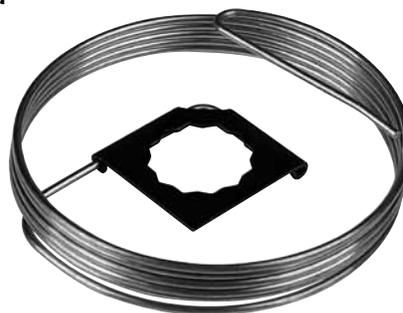
Clutch plate includes the pin separator ring, essential to preventing pins from leaving the distributor between bin positions.

If the stop blades are dragging on this ring, your carriage tubes may be bent.

SPRING ASSY - DIST. DRIVE

82/70, 82/90, 82/90XL, 90XLI

070 006 128
Ea



The spring hooks into the Clutch Plate, locks onto the nut, and provides proper tension to the Clutch assembly.

Nut 835 582 002 should only be tightened using this spring as a hand tool. Overtightening the nut can cause clutch deformation and poor performance.

CLUTCH PLATE

82/70, 82/90, 82/90XL, 90XLI

070 006 130
Ea



This is the constantly rotating part of the Clutch. Adjusting spring rotation determines its pressure against the friction disc. To ensure proper operation, the friction surface on this plate must be completely flat, and the opening must screw neatly onto the worm. You can check these by looking for air gaps when you set the plate on a flat surface and when you stack it with another plate.

DISTRIBUTOR

INDEXING CAM - DISTRIBUTOR

82/70, 82/90, 82/90XL, 90XLI

070 006 149

Ea



Rollers follow the cams on this wheel, moving the Distributor around the Bin to each pin location.

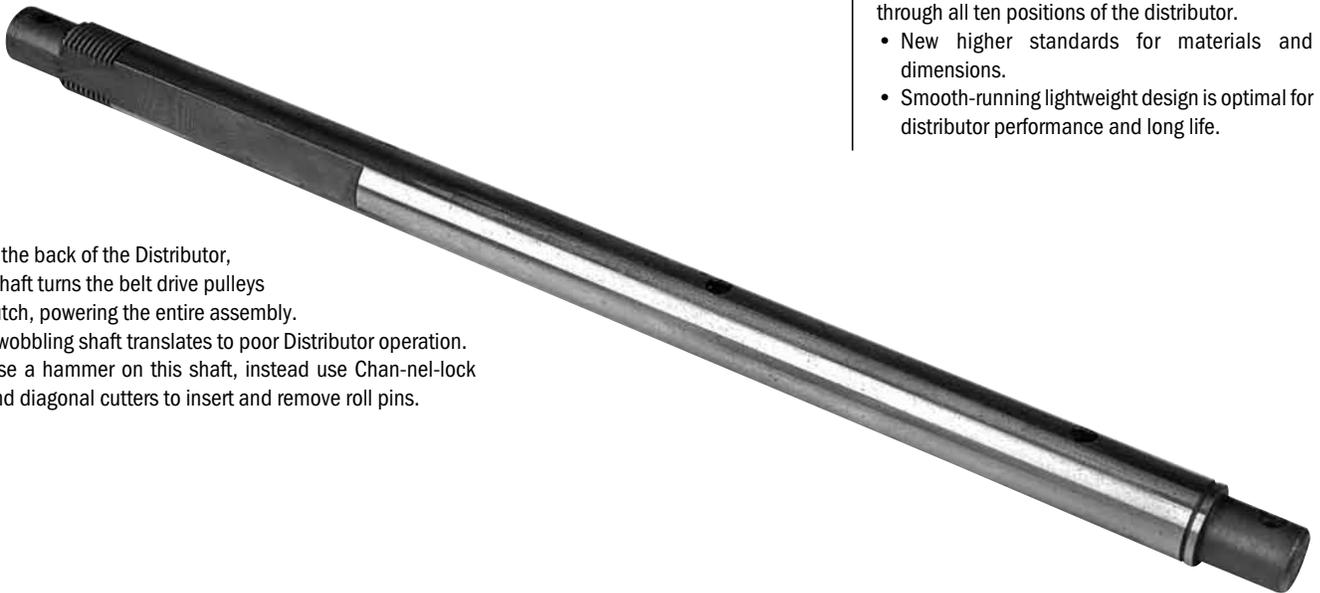
With most Distributor problems, the first item to check is timing mark alignment between the Indexing Cam and Pinion Gear at the #1 position.

DRIVE SHAFT - DISTRIBUTOR

82/70, 82/90, 82/90XL, 90XLI

070 006 077

Ea



Located at the back of the Distributor, the Drive Shaft turns the belt drive pulleys and the clutch, powering the entire assembly.

- A bent/wobbling shaft translates to poor Distributor operation.
- Never use a hammer on this shaft, instead use Channel-lock pliers and diagonal cutters to insert and remove roll pins.

UNIVERSAL JOINT - PLASTIC

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 008 004

Ea



- The original low-cost universal joint.
- High-grade materials for longer life than all imitations.

UNIVERSAL JOINT - STEEL

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 007 586

Ea



Transfers power between distributor driveshafts through all ten positions of the distributor.

- New higher standards for materials and dimensions.
- Smooth-running lightweight design is optimal for distributor performance and long life.

SIMPLIFIED CLUTCH ASSEMBLY

82/70, 82/90, 82/90XL, 90XLi

070 009 890

Ea



A different approach to the clutch, this system uses a compression coil spring for pressure and a nyloc nut for adjustment. Unlike competitors, this clutch plate has a pin separator ring to prevent misfeeds.

WORM - DISTRIBUTOR CLUTCH

82/70, 82/90, 82/90XL, 90XLi

070 006 125

Ea



The worm properly spaces clutch components and supports the Clutch Plate. It is easy to assemble a clutch with missing or incorrectly positioned parts. Use the illustrations in your service manual to ensure proper assembly.

BALL - DISTRIBUTOR SHAFT

82/30, 82/70, 82/90, 82/90XL, 90XLi

000 026 461BG (82/30-82/70)

090 002 019 (82/90-Later)

Bag of 2



Helps keep distributor operation smooth as it indexes to each position. Worn balls will cause other parts to wear and cause pin pileups.

- Replace in pairs.
- Use with Pin 000 022 717 on 82/30 and 82/70, or with Pin 908 048 480 on 82/90 and later pinspotters.

DISTRIBUTOR DRIVE HOUSING

82/30, 82/70, 82/90

000 027 390

Ea



Part of the system that allows the distributor driveshaft to reach the distributor in all ten of its positions.

- Distributor indexing problems can be caused by twisting, spreading, or grooves worn in this part.
- Keep it lubricated with plenty of clean grease.
- For the wide version on 82/90 and later machines, choose 090 001 130.

GENUINE QAMF GEARBOX OIL

82/30, 82/70, 82/90, 82/90XL, 90XLI

715 021 716 (1 Qt)

715 021 706 (12 Qt Case)

Quart bottle / Case of 12 Quart bottles



Lubricates, cleans, cools, and seals gearboxes on AMF pinspotters.

- Use no substitutes! Other oils can slowly deteriorate expensive internal gearbox parts - you won't know until it's too late. This is the oil that our gearboxes are intended to run with.
- Depending on machine type, use about 1 bottle for every 2 gearboxes.
- Change oil every 5 years or less, depending on lineage.
- For IPTS gearboxes, try our synthetic gearbox oil, part 715 021 717.

COMBO MOTOR CAPACITOR

82/30, 82/70

743 000 020

Ea



Used in the circuit to start and stop the sweep and table circuit.

- Original dimensions and screw terminals.
- New construction method makes it the strongest combo capacitor yet.
- Always install capacitors with the vent hole as high as possible.

5-POSITION RUSSELL-STOLL PLUG

82/70

000 027 655 (Motor Side-Male)

000 027 660 (Cable Side-Female)

Ea



Makes the electrical connection between the sweep and table motors and the pinspotter.

- Check the wire connections in these plugs if you have motor heating, coasting, or starting trouble.
- Complete cable assemblies are available too: 070 005 542 for Sweep or 070 007 751 for Table.

CARBON BRUSH - NATIONAL COMBO

82/70

785 502 020

Ea



Four of these drag on a disc in National combination motors to add resistance for braking.

- Make sure the disk is smooth and clean for peak performance.
- If a motor needs a little extra braking, try replacing the outer two brush springs with Spring 070 001 845.

KLIXON THERMAL PROTECTOR

82/30, 82/70, 82/90, 82/90XL, 90XLI

Motor Type

Klixon

30 GE Combo	785 501 392
30 GE BE 60Hz	785 501 389
30 GE BE 50Hz	785 501 388
70 GE Combo 60Hz	785 501 392
70 GE BE 60Hz	785 501 389
70 GE Combo 50Hz	785 501 540
70 GE BE 50Hz	785 501 508
70 WH Combo	785 501 393
70 WH BE 60Hz	785 501 394
70 WH BE 50Hz	785 501 564
70 National Combo	785 502 005
70 National BE	785 502 080
90 Franklin Combo	090 003 630
90 Franklin BE 60Hz	090 003 630
90 Franklin BE 50Hz	090 003 665

Ea



This 'red button' in motors protects the motor from damage if it isn't able to run properly. Order Guard part number 785 501 591 and 2, 785 501 592 pins to repair missing or smashed protector plates.



COMBO MOTOR & GEARBOX ASSY - WESTINGHOUSE

82/70

610 704 052 (60Hz)
610 704 052-R (60Hz Repair/Exchange)
070 006 219 (50Hz)
Ea

Both the Sweep and the Table are driven by these interchangeable assemblies, mounted on the front end of the machine.

- The only OEM replacement for 82/70 motors & gearboxes.
- Built and tested at the QubicaAMF plant from all new parts.
- Complete and ready to use.



BE MOTOR & GEARBOX ASSY - WESTINGHOUSE

82/70

610 704 042 (Even Ln - 60Hz)
610 704 043 (Odd Ln - 60Hz)
610 704 042-R (Repair/Exchange Even Ln - 60Hz)
610 704 043-R (Repair/Exchange Odd Ln - 60Hz)
070 006 211 (Odd Ln - 50Hz)
070 006 212 (Even Ln - 50Hz)
Ea

Positioned in the back corner of the machine, this assembly drives the Distributor, Carpet, Pin Elevator, and Ball Lift.

- The only OEM replacement for 82/70 motors & gearboxes.
- Built and tested at the QubicaAMF plant from all new parts.
- Complete and ready to use.



STATOR - WH BE 115V

82/70

785 501 663 (show with 785 501 666L & R below)

Ea

The correct replacement for 115V/60Hz Westinghouse Back-End motor stators.

- Comes complete with end bell, switch, klixon, capacitor, and through bolts.
- Works with motor model 325P201.
- Make sure motor has a Belleville Washer 785 501 402 in place.



ROTOR - WH BE 115V

82/70

785 501 666R

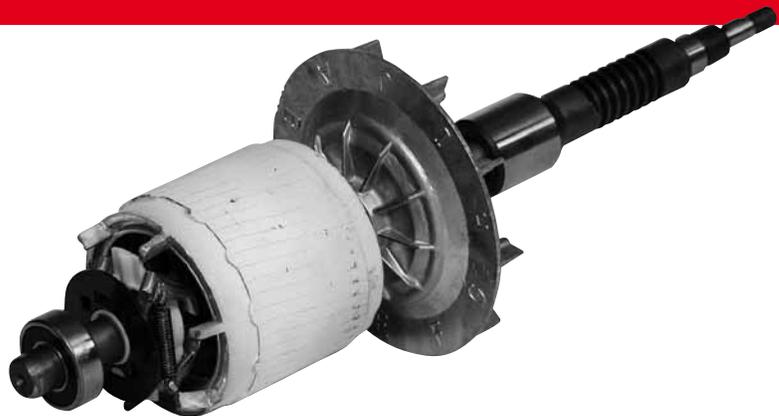
785 501 666L

Ea

The correct replacement for 115V/60Hz Westinghouse rotor shaft & worm.

Check the Westinghouse motor label for compatibility - motor code 314P079 is the old style, 325P201 is current.

Choose L for even lane gearbox, R for odd lane.



NATIONAL COMBO MOTOR REPLACEMENT

82/70

785 502 261 (110 Volt)

785 502 260 (220 Volt)

Ea

Runs National (Matsushita) combination gearboxes on the front end of the pinspotter.

- Direct replacement for all National sweep & table motors.
- All internal parts are available.



NATIONAL BACK END MOTOR REPLACEMENT

82/70

785 502 259 (110 Volt)
785 502 258 (220 Volt)
Ea



Runs National (Matsushita)

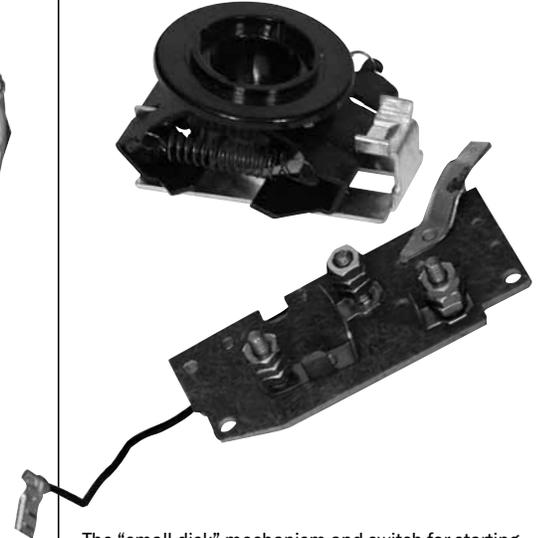
back - end gearboxes on both odd and even lanes.

- Direct replacement for all National BE motors.
- Same motor as used on our newest 90XLI machines, adapted for your National BE gearbox.
- All internal parts are available.
- Reversible rotation.

STARTING SWITCH & CENTRIFUGAL MECHANISM - WH BE MOTOR

82/70

785 501 664 (Switch)
Ea



The "small disk" mechanism and switch for starting early model Westinghouse BE motors. If the rotor shaft has worn and no longer supports the mechanism, we recommend replacing it with the 610 309 046 Solid State Switch.

STARTING SWITCH & CENTRIFUGAL MECHANISM - WH BE MOTOR

82/70

785 502 300 (Centrifugal Mechanism)
785 501 384 (60Hz Switch)
Ea

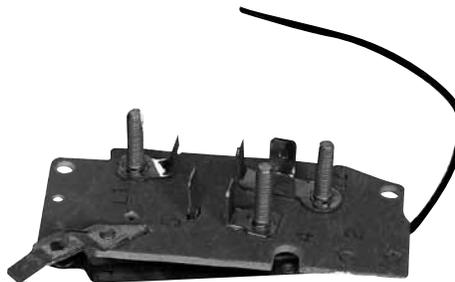


The "wide disk" mechanism and switch for starting late model Westinghouse and A.O. Smith BE motors. This type of centrifugal mechanism is held in place on the rotor shaft with clips on top and bottom. Match your rotor shaft to the appropriate mechanism type before ordering.

TERMINAL BOARD SWITCHES - WESTINGHOUSE COMBO

82/70

785 501 386 (Main)
785 501 372 (Aux)
Ea



These two switches inside the top of Westinghouse Sweep & Table motors work together to engage the start windings of the motor.

The 50Hz Centrifugal Mechanism is still available as part number 785 501 531. The 60Hz mechanism is no longer available, we recommend our Solid State Start Switch 610 309 044 as the best replacement.

SOLID STATE SWITCH - BE MOTOR

82/30, 82/70

610 309 046
Ea



If the original centrifugal switch or mechanism can't be replaced, this unit eliminates them both and adds extra protection to the circuit.

- Current-sensing technology always switches start winding circuit at just the right moment.
- Replaces all switches and centrifugal mechanisms on all BE and ball return motors.
- Internal fuse for added circuit protection.

SOLID STATE SWITCH - COMBO MOTOR

82/30, 82/70

610 309 044

Ea



- Integral braking circuit for improved stopping ability.
- Current-sensing technology always switches start winding circuit at just the right moment.
- Replaces all switches and centrifugal mechanisms on all sweep & table motors.

ADJUSTABLE SOLID STATE SWITCH

82/30, 82/70

610 309 042 (110 Volt)

Ea



The length of time that the start winding is engaged can be adjusted with this type of solid state start switch. Often known as the "Lewus" switch, this is not recommended for combination motors.

BE GEARBOX SEALS

82/70

716 501 009 (Worm Input)

716 503 023 (Pin Elev & Pit Drive)

716 503 022 (Dist Output)

Ea



These seals prevent leakage around the four gearbox shafts. When installing, prevent seal damage by wrapping sharp edges on shafts with teflon tape and coating shafts with gearbox oil.

RING GEAR - WESTINGHOUSE COMBO

82/70

785 501 179

Ea



This one-piece ring gear & flange is the part of the gearbox that is mounted to the machine frame.

The three planet gears stop in the same location every time. Extend the lifespan of these parts by cranking the motor to a new stopping position every time the gearbox is off of the machine.

PLANET GEAR - WESTINGHOUSE COMBO

82/70

785 501 134

Ea



Alternately called "helical gear," it is part of the system that reduces output shaft speed and increases operating torque.

When there is breakage or excessive wear, it is best to replace these in sets of three, along with the Ring Gear 785 501 179 and Wheel Shaft 785 501 291.

GEARBOX & MOTOR

OB ROTOR / ENDBELL BEARINGS

82/30, 82/70, 82/90, 82/90XL, 90XLi

Motor Type	Klixon
30 GE Combo	701 021 010
30 GE BE	701 021 010
70 GE Combo	701 021 010
70 GE BE	701 019 007
70 WH Combo	701 021 010
70 WH BE	701 020 091
70 National Combo	701 021 010
70 National BE	785 502 088
90 Franklin Combo	785 502 087
90 Franklin BE	785 502 087
Ea	



The rotor shaft inside every motor is supported at the end by one of these bearings. Don't let a questionable bearing ruin good endbells and rotor shafts. Bearings that don't feel smooth or turn with even resistance should be replaced.

BE GEARBOX

82/90, 82/90XL, 90XLi

- 088 004 501 (60Hz Odd)
 - 088 004 502 (60Hz Even)
 - 090 004 504-R (Repair/Exchange - 60Hz Odd)
 - 090 004 502-R (Repair/Exchange - 60Hz Even)
 - 088 004 506 (50Hz Odd)
 - 088 004 507 (50Hz Even)
- Ea

This gearbox design, used on 82/90 and later pinspotter, points the motor forward underneath the wireway. When ordering motor and gearbox items, be sure to select the proper Hertz (cycle) rating for your location.



BE MOTOR

82/90, 82/90XL, 90XLi

- 090 003 766 (60Hz)
 - 090 007 310 (50Hz)
- Ea

This motor adapts to the BE gearbox and drives the back end components of the pinspotter. Coat the shaft with anti-seize compound use a new Shaft Key 907 202 500. The Switch in this motor is 090 004 560 (60Hz) or 090 004 558 (50Hz).



BE MOTOR & GEARBOX ASSEMBLY

82/90, 82/90XL, 90XLI

090 003 514 (60Hz Odd)
 090 003 515 (60Hz Even)
 090 003 528 (50Hz Odd)
 090 003 529 (50Hz Even)

Ea



A complete, ready to install back end drive unit assembly. Early 82/90's used a round plug - this cable assembly is available, order 250 001 115.

COMBINATION GEARBOX - 3-BOLT FLANGE

82/90, 82/90XL

088 004 504 (60Hz)
 090 004 504-R (Repair/Exchange - 60Hz)
 088 004 509 (50Hz)

Ea



Two of these gearboxes mount to the front end of the machine to run the sweep and the table. Clean output splines while gearbox is off of pinspotter and apply grease prior to installation. The splines will wear longer and it will be easier to remove the gearbox in the future.

COMBINATION MOTOR - SMALL PLUG

82/90XL

090 004 547 (60Hz)
 090 004 548 (50Hz)

Ea



This motor has a 7/8" dia. receptacle, a 3-bolt interface to the gearbox, and accepts a drop-in drag brake.

- Combine with 60Hz Gearbox 088 004 504 or 50Hz Gearbox 088 004 509, using Key 907 202 500.
- Coat shaft interface surfaces with Anti-Sieze Compound 715 011 803.

GEARBOX & MOTOR

COMBINATION MOTOR - LARGE PLUG

82/90, 82/90XL

090 003 532

Ea

This motor has a 1.5" dia. receptacle, a 3-bolt interface to the gearbox, and uses a drop-in brake. Common internal replacement items include Capacitor 090 003 634, Klaxon 090 003 630, and Switch 090 004 560 (60Hz) or 090 004 550 (50Hz).



COMBINATION MOTOR - SPLINED SHAFT

82/90XL

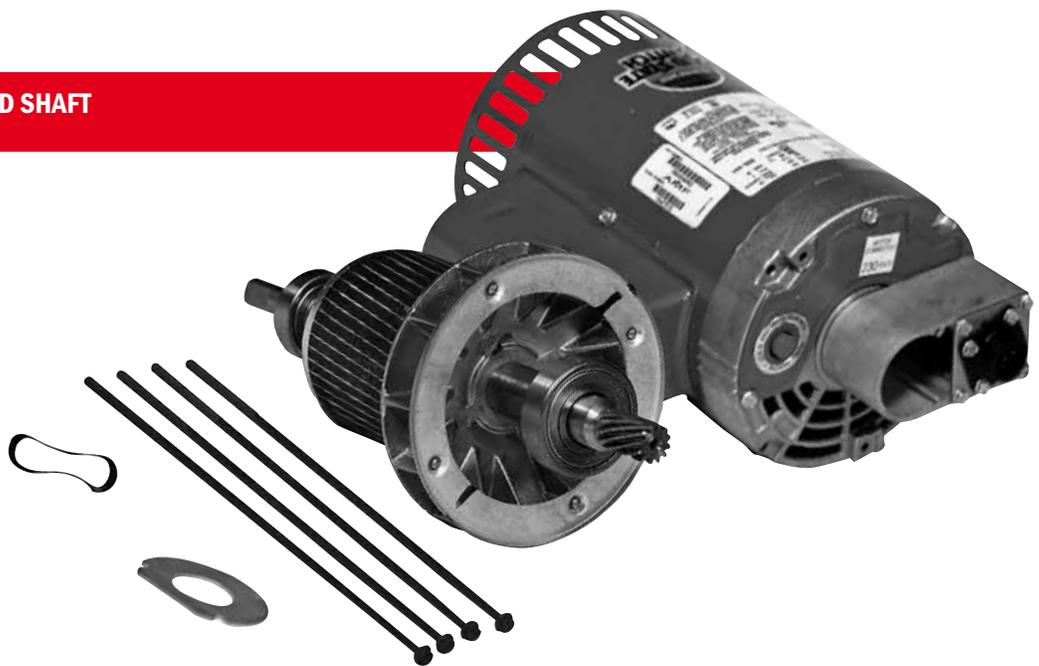
090 004 062 (60Hz)

090 004 060 (50Hz)

Ea

The output end of this motor's rotor shaft has a helical spline rather than a keyway. It is made to interface only with Gearbox 090 004 500 (60Hz) or 090 004 499 (50Hz).

- The 60Hz motor now operates at 110, 208, or 230 Volts.
- Use the diagram on the motor label to determine the proper wiring for your voltage service.



DRAG BRAKE - DROP IN

82/90, 82/90XL

090 004 516

Ea



Fits between the Franklin combo motor endbell and rotor shaft to help stop the motor. A direct replacement for the brake on most Franklin combo motors.

DRAG BRAKE W/ HEAT SHIELD

82/90

090 003 550

Ea



Seats against the plug housing on early Franklin motors to help stop rotor shaft rotation.

This brake is also used on our 82/70 National Combo Motor replacements, 785 502 261 (60Hz) and 785 502 260 (50Hz). Order part number 090 003 554 for a replacement spring, and 919 007 500 for the retaining ring.

OIL SEAL - BE PIN ELEVATOR OUTPUT

82/90, 82/90XL, 90XLI

785 503 071

Ea



Shaft seals are pressed into gearbox and cap openings to prevent leakage.

Prevent future leaks during gearbox rebuilding by dressing off burrs and sharp edges on and around mating surfaces.

VITON OIL SEAL - WORM INPUT

82/90, 82/90XL

785 503 104

Ea



- Made of a new material, this seal helps prevent oil leakage around the worm shaft.
- A direct replacement for 785 503 074.
- Correct for both Combination (Front End) and Back- End gearboxes.

OIL SEAL - BE DIST DRIVE & PIT DRIVE OUTPUT

82/90, 82/90XL

785 503 072

Ea



When mating seals with shafts, wrap shafts in teflon tape and lubricate with gear oil before installing.

OIL SEAL - COMBINATION OUTPUT SHAFT

82/90, 82/90XL

785 503 073

Ea



If a groove is worn in an output shaft from the old seal, a new seal can usually be seated slightly further in than the old one to contact a new area on the shaft and prevent leakage.

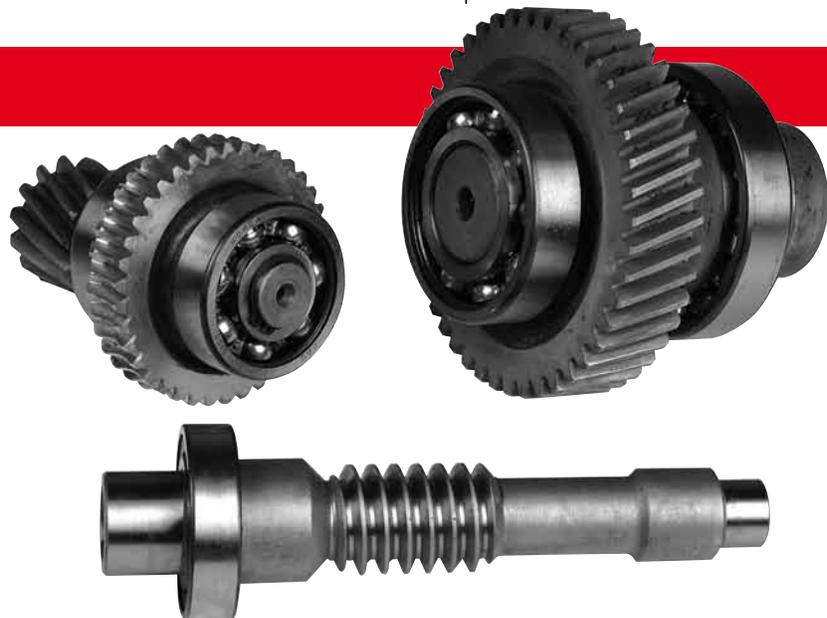
COMBO GEARBOX REBUILD KIT

82/90, 82/90XL

610 900 064 (60Hz)

610 900 063 (50Hz)

Ea



BACK END GEARBOX PACKAGING KIT

82/90, 82/90XL

610 900 051

Ea

All seals, shims, gaskets, oil and hardware required to completely renew a back end gearbox.

When rebuilding a gearbox, always have plenty of room, a good cleaning solution, and the proper tools - including safety glasses, gloves, and face mask.



BACK END SEAL KIT

82/90, 82/90XL

610 900 116R

Ea

The necessary items to repair a leaky back end gearbox. Comes with instructions. The correct oil is essential to proper seal service life and function.



FRONT FILLER ASSEMBLY

82/30, 82/70

000 024 678

Ea

As the ball transitions from the pit area to the ball lift, it gets kicked up the ramp on this assembly.

- New improved Casting 000 024 621 and Rubber Pad 000 024 628.
- Installs easier and wears longer than other versions.
- New design prevents halfway ball spin.



KICKER SPRING

82/30, 82/70

000 029 601

Ea



Provides tension for kicker roller drive belts. Rather than trying to double-up or reshape old springs, it's best to replace with new.

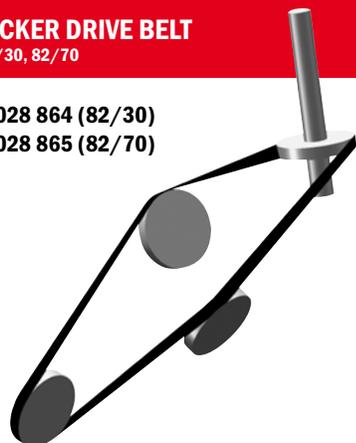
KICKER DRIVE BELT

82/30, 82/70

000 028 864 (82/30)

000 028 865 (82/70)

Ea



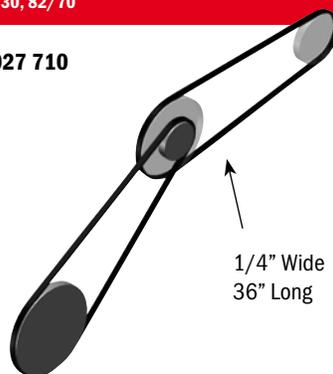
This is the belt that turns the kicker rollers. The 82/30 belt is slightly longer than the 82/70 version.

V-BELT - RUDDER DRIVE FOR KICKER

82/30, 82/70

000 027 710

Ea



1/4" Wide
36" Long

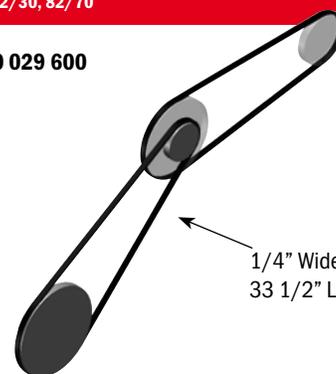
In Kicker ball exits and PBL Plus "mini PBL" exits, this belt runs between the ball lift and the belt tensioner "mousetrap" pulley. Works with our adjustable speed rudder drive sheave, 000 024 599.

RUDDER DRIVE BELT

82/30, 82/70

000 029 600

Ea



1/4" Wide
33 1/2" Long

This belt runs between the belt tensioner "mousetrap" pulley and the rudder drive sheave. Measures approximately 33.5" outside.

RUDDER DRIVE LINK

82/30, 82/70

000 029 671

Ea



ADJUSTABLE RUDDER DRIVE LINK

82/30, 82/70

000 028 540

Ea



Replaces gas shock link on Kicker exits and the Light Ball Sensor on PBL's.

- Allows adjustment of rudder stroke and force.
- All internal components are available separately.

BALL LIFT

BEARING - 1 3/8 O.D. X 5/8 I.D.

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 679

Ea



Very common bearing used in the Distributor, Kicker Shaft, and PBL Ratchet Drive Crank. A good item to have several of on hand.

BALL WIPER CLOTH

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 004 669

Ea



Removes oil and dirt from the ball as it passes out of the machine.

For the adjacent Dust Trap cloth, order 070 004 670.

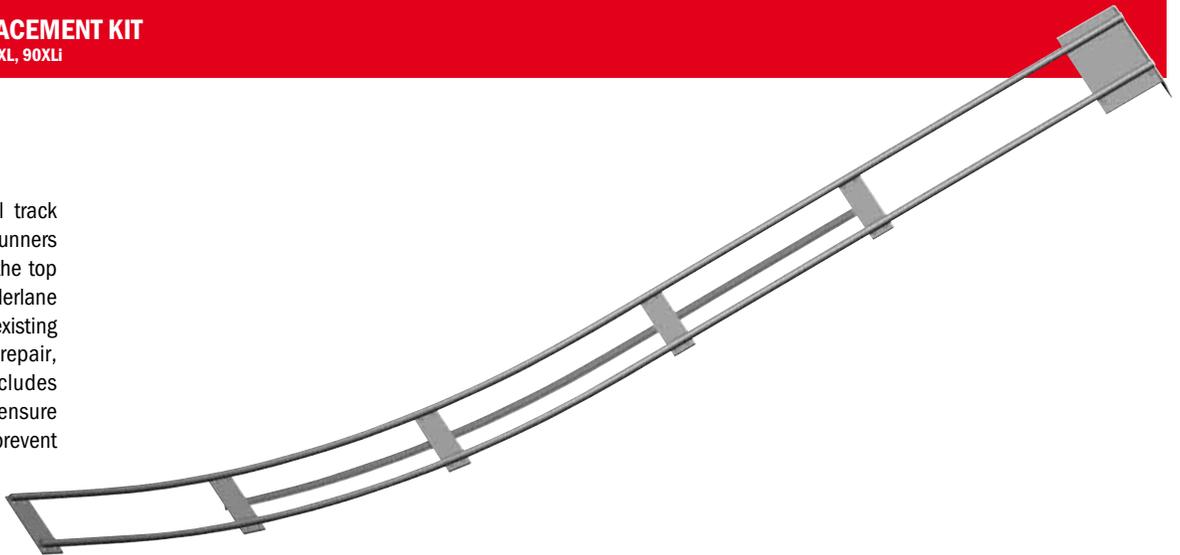
DOWNSWEEP REPLACEMENT KIT

82/30, 82/70, 82/90, 82/90XL, 90XLI

610 496 591

Ea

This kit includes the metal track assembly and plastic track runners where the ball drops from the top of the machines into the underlane ball track "subway." When existing downsweeps are beyond repair, this adjustable kit includes everything you need to ensure proper ball transfer and prevent ball damage.



BELT - PIT DRIVE

82/70

000 022 099

Ea



The correct belt to run 82/70 carpets and ball lifts. 82/30's with kickers or PBL's use 030 008 671. 82/90 and later uses 090 004 520.

CLUTCH PULLEY ASSEMBLY

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 811 (closest to even machine)

000 024 812 (closest to odd machine)

Ea



This 5" pulley assembly allows one lane to run the ball lift while the other lane is off. To replace the Clutch Bearing only, order 070 007 291. Faster 4 1/4" pulleys are available too - order 000 028 772 (even) or 000 028 773 (odd).

CLUTCH BEARING - BALL LIFT

82/30, 82/70, 82/90, 82/90XL, 90XLI, C-80, C-90, Options, Profile

070 007 291

Ea



The key to either machine on a pair being able to run the shared ball lift, this clutch bearing locks when turned one direction, and freewheels in the other. This is the same bearing used on the lower shaft of AMF-type front ball returns including C-90, Options and Profile.

SPRING - DISTRIBUTOR

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 673

Ea



Originally used on the 82/30 distributor, this spring is more often associated with ball lift parts. When using this spring to tension the ratchet drive belt, one hook needs to be opened up a little wider than the original size.

LINK ASSY - BALL LIFT - UPPER & LOWER

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 651 (Lower)

000 024 720 (Upper)

Ea



These castings support and position the ball lift assembly between the pinspotters. Complete with bushings, works on both PBL and Kicker ball lifts.

BALL LIFT

CLAMP STUD - BALL LIFT

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 610

Ea



This secures the Ball lift shafts in the "U" brackets on the kickbacks. Install with Nut 835 565 002 on back side of bracket for easiest access next time maintenance is required.

BUMPER - BALL LIFT ADJUST

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 641

Ea



At the top of the kickbacks, this adjusts ball lift height. Also used in our Signature and Curvature series masking units. Lock adjustment with Jam Nut 835 558 002BG.

CUSHION RUBBER - SHOCK ABSORBER

82/30, 82/70

000 027 996

Ea



Two of these are sandwiched between retainers above and below the shock absorber bracket on PBL and Kicker ball lifts. An essential part to proper ball lift operation, these should be resilient and compressed neatly on the shock absorber stud.

HANGER ARM ASSEMBLY

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 029 659

Ea

2 of these go into the belt tensioner "mousetrap" assembly on kicker and PBL systems. Complete with bushings 900 110 081BG.



TRACK COVER - LOWER

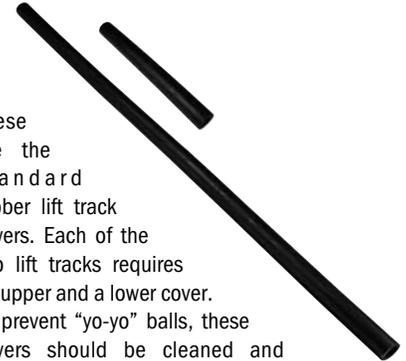
82/30, 82/70, 82/90, 82/90XL, 90XLI

070 011 440 (Lower)

000 024 663 (Upper)

Ea

These are the standard rubber lift track covers. Each of the two lift tracks requires an upper and a lower cover. To prevent "yo-yo" balls, these covers should be cleaned and rotated on a regular basis.



BALL LIFT BELT - WIDE/DEEP GROOVE

82/30, 82/70

070 011 280

Ea

- The belt for pulleys with a wide/deep groove.
- Similar construction to our famous "Gripper" belt.



BALL LIFT BELT-GRIPPER

82/30, 82/70, 82/90, 82/90XL, 90XLI

088 001 233

Ea



This belt is stretched around the two ball lift pulleys and raises balls from the pit level up to the top of the machines.

- Highest quality ball lift belt available.
- Trusted Gates® construction.
- Easy to adjust and keep adjusted.

LOWER D-BORE SHAFT KIT

82/70, 82/90, 82/90XL, 90XLI

610 704 151

Ea



Everything needed to replace an old straightbore lower shaft or renew an existing DBore shaft on Kicker or PBL ball lifts.

This arrangement is not recommended for 82/30's or machines with extremely narrow exit areas.

SPACER - BALL LIFT SHAFT

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 006 748

Ea



Essential to proper alignment and fit of ball lift shafts, these "tophat" spacers are available individually. Replace these at the first sign of wear to extend the life of related parts that are more expensive.

CLUTCH RACE - BALL LIFT

82/30, 82/70, 82/90, 82/90XL, 90XLI

090 003 401

Ea



This race mates all lower ball lift shafts to the clutch pulleys on Kicker and PBL lifts. Two are required per shaft. A direct replacement for 070 006 749.

STRAIGHT BORE BEARING & SPACER KIT

82/30, 82/70, 82/90, 82/90XL, 90XLI

610 905 704

Ea



- The correct bearing and steel spacer for use with all straight bore shafts.
- Two required per shaft / 4 per ball lift. Include the spacer in your assembly to ensure tight fit and proper alignment.

D-BORE BALL LIFT SHAFTS & BEARING

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 011 795 (Upper Shaft)

070 011 796 (Lower Shaft)

070 011 797 (Bearing)

Ea



A different spin on the original round style, this system locks the shaft and inner bearing race together.

- D-Bore system prevents shaft from spinning free of bearing.
- New tighter tolerances for longer wear.
- Lower shaft not recommended for 82/30's or extremely narrow exits.

PULLEY - BALL LIFT BELT

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 661

Ea

The “Narrow/Shallow” pulley for use with most common ball lift belts.

Use with ball lift belt 088 001 233 and make sure the two pulleys are aligned before installing lift in machine.



BALL LIFT YOKE - UPPER & LOWER

82/30, 82/70, 82/90, 82/90XL, 90XLI

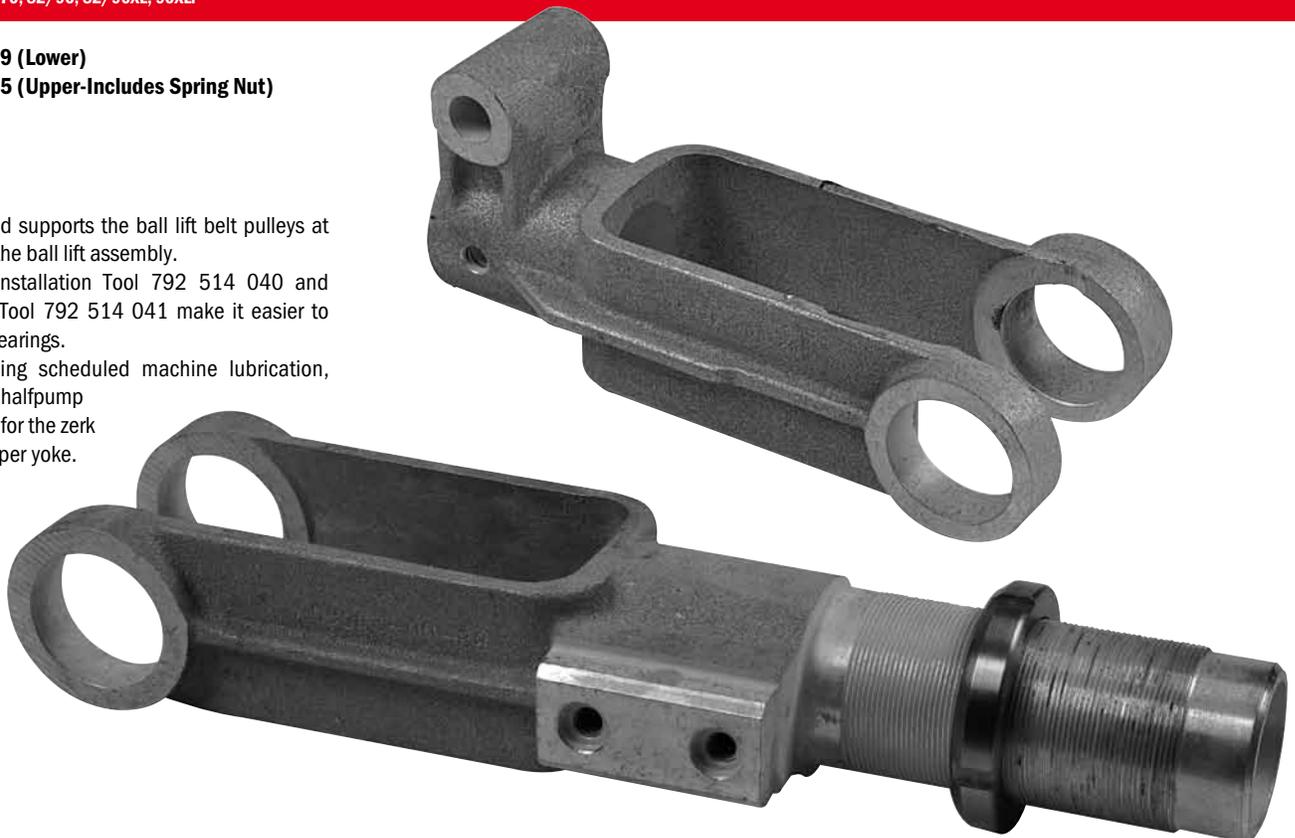
000 024 659 (Lower)

070 001 995 (Upper-Includes Spring Nut)

Ea

Positions and supports the ball lift belt pulleys at the ends of the ball lift assembly.

- Bearing Installation Tool 792 514 040 and Removal Tool 792 514 041 make it easier to replace bearings.
- When doing scheduled machine lubrication, include a halfpump of grease for the zerk on the upper yoke.



RATCHET ASSEMBLY - PBL

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 011 039

Ea

Mounted to the metal kickback on the even machine, this assembly includes a rotating pulley and an inner crank that rotates to lift the ball into contact with the belt. Proper alignment of these parts is critical. Use the chart in the PBL installation manual or machine service manual for the correct dimensions.



SPRING - RATCHET DRIVE

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 011 032

Ea



This spring hooks between the ratchet arm and the crank block to unlock the lift arm once the ball has left the exit area. Changes through the years have made this critical spring the best version available.

RATCHET ARM WELDMENT

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 011 217

Ea

This arm is part of the PBL ratchet wheel assembly, and facilitates the lift arm operation when a ball is ready to be lifted. Be sure all pins & studs are perpendicular to plate, and that the coarse thread stud has a good thread locking material on it's threads before assembling.



CAM SENSOR ASSEMBLY

82/30/ 82/70/ 82/90, 82/90XL, 90XLI

070 011 110

Ea



This is the base about which the parts of the Light Ball Sensor (LBS) operate in a full PBL system. Assembly includes the Cam Sensor Weldment 070 011 100 and Bushings 900 208 091BG.

FLANGE BUSHING

82/30, 82/70, 82/90, 82/90XL, 90XLI

900 208 091BG

Bag of 5



The heart of the LBS, this bushing is used extensively in the mechanism to ensure reliable operation. The Light Ball Sensor is intended to run perfectly clean and dry. No lubrication should be added to any parts in this assembly.

V-BELT

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 011 064

Ea



This belt runs the ratchet wheel in a PBL system.

LINERS - CRADLE

82/30, 82/70, 82/90, 82/90XL, 90XLI

090 002 024 (Black-PBL Lift Arm)

Ea



Four of these black urethane liners mount in the lift arm to protect the ball and help it transfer to the track rails.

- Though originally the same part as the Spotting Cup Liner, materials have been specialized for these two applications.
- If it's necessary to install these with the lift arm in the machine, some mechanics prefer to hit the flat side with a ball peen hammer to knock the pull tabs into their holes.

BALL LIFT

PADDLE - PBL

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 011 146

Ea

Bolted to the rudder arm, this urethane part moves back and forth to clear pins from the ball exit.

- Unique shape accommodates both wide and narrow exits.
- Strong enough to push pins out of exit, while gentle on bowling balls.
- Resists bending and cracking.



BALL DOOR WELDMENT - PBL

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 011 005 (Even Lane)

070 011 006 (Odd Lane)

Ea

This is the ramp that PBL exits use to deliver balls from the pit area to the lift arm. Often imitated, never duplicated. Expect only the best quality from your O.E.M.



URETHANE BALL DOOR RING

82/30, 82/70, 82/90, 82/90XL, 90XLI

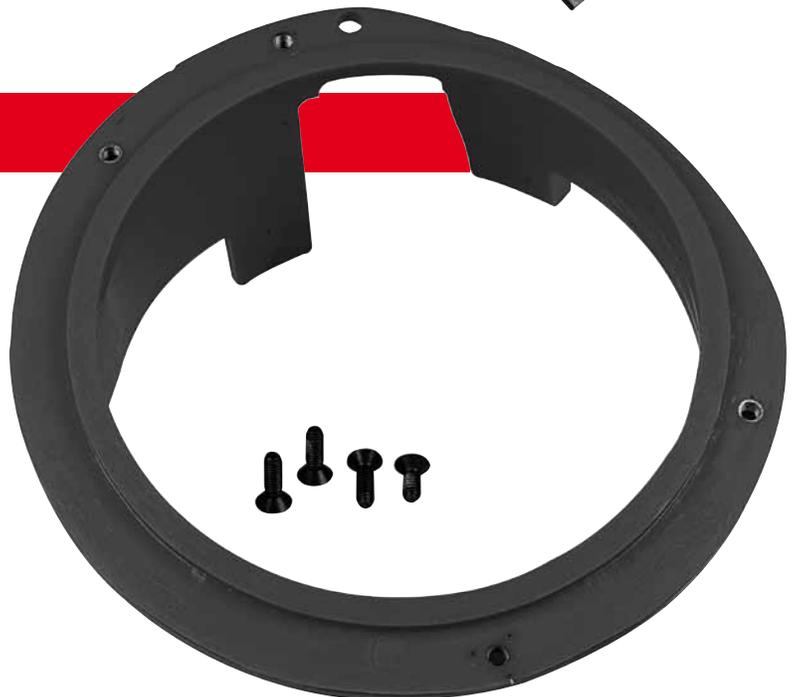
070 011 641 (Even Lane)

070 011 642 (Odd Lane)

Ea

An alternative to the steel version, this urethane part guides balls from the ball exit to the lift arm in PBL systems.

- Protects balls from coming in contact with metal ball exit parts.
- New improved urethane formula and molding process to improve strength and fit consistency.
- Molded-in nuts for easy installation.
- New and improved tooling and new formula. Better fitting and stronger than ever. You won't be disappointed.



V-BELT - PBL

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 011 148

Ea



In complete PBL systems, this belt runs between the ball lift and the belt tensioner "mousetrap" pulley. This wider belt is made to work with the 070 011 131 Pulley.

PBL MINI KIT

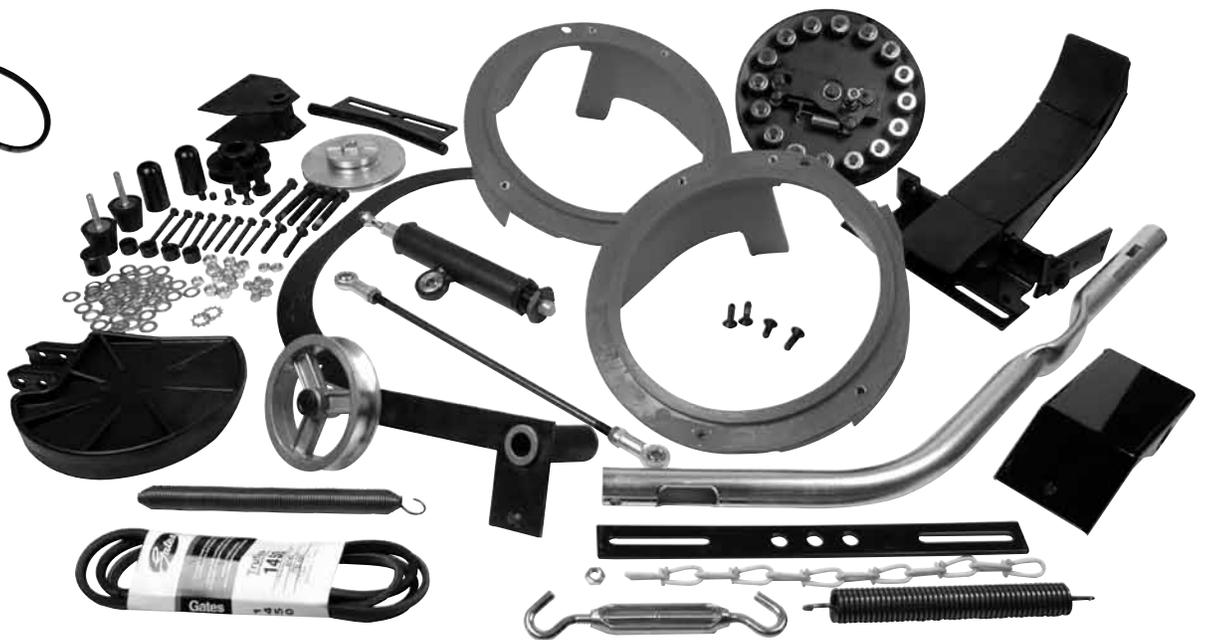
82/30, 82/70

610 088 086

Ea

A kit that includes only the vital parts required to update a pair of machines from the old "kicker" ball exit system.

- Includes all the parts of our Gripper PBL Kit.
- Features our adjustable rudder drive link, adjustable speed sheave, and new urethane ball door rings.
- Don't forget a reusable Template & Drill Bits Kit 610 704 098.

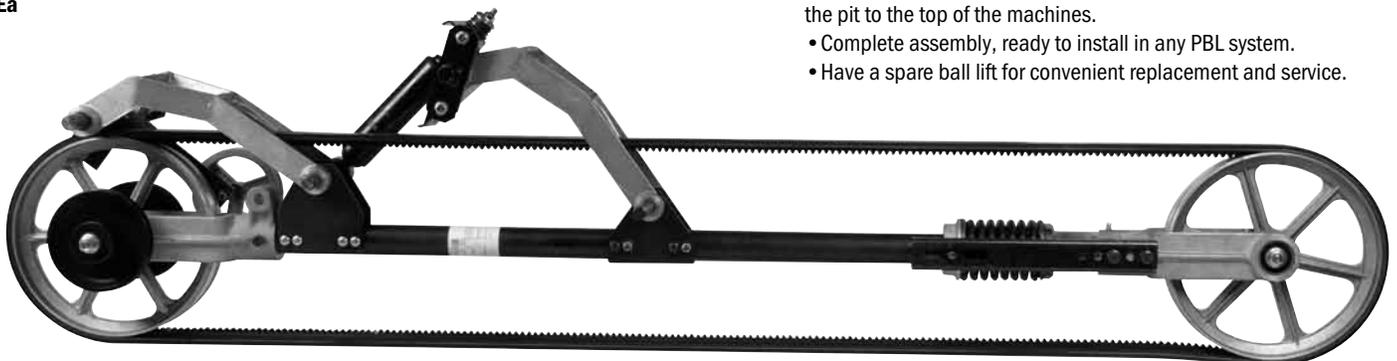


BALL LIFT ASSEMBLY - PBL

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 011 052

Ea



This is the complete assembly that carries balls up the lift rods from the pit to the top of the machines.

- Complete assembly, ready to install in any PBL system.
- Have a spare ball lift for convenient replacement and service.

PBL FULL CONVERSION KIT

82/30, 82/70

610 088 087

Ea

The most complete PBL Conversion Kit we offer:

- Includes all necessary parts to convert kicker ball exit to PBL
- Includes our Light Ball Sensor
- Includes Gripper PBL parts
- Don't forget a reusable Template and Drill Bit Kit 610 704 098'



GRIPPER PBL KIT

82/30, 82/70, 82/90, 82/90XL, 90XLI

610 049 510

Ea



- Put all lane oil, lightweight ball, and finicky adjustment problems in the past with our exclusive Gripper kit for PBL's.
- Specially engineered ball lift belt, rod covers, "thimbles," and adjustable support bracket team up to provide superior ball lift performance.
- Everything you need to quickly & easily convert any PBL to the Gripper system.

To convert a Kicker Ball Lift to the Gripper PBL, order 610 088 086.

THIMBLE

82/30, 82/70, 82/90, 82/90XL, 90XLI

088 001 230

Ea



PBL systems make great use of this part as a direct replacement for 070 011 018 Ball Guide.

- Helps center balls and transition them from lift arm to rails.
- Protects balls from metal-related damage.
- Must use these if installing Clear Rail Covers 088 001 231.

RAIL COVER - LOWER CLEAR

82/30, 82/70, 82/90, 82/90XL, 90XLI

088 001 231

Ea



Though this is a part of the Gripper ball lift kit, it can be used separately to cure problems with PBL ball lift traction.

- The best rail cover available for eliminating "yo-yo" ball slip.
- Exclusive urethane formula specifically formulated for this product.
- Do not install without Thimbles 088 001 230.

AMF 82-70 / 90 QUARTERLY PREVENTIVE MAINTENANCE

CENTER: _____ MONTH: _____ YEAR: _____

Lane #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
Clean the machine framework, drip pans																																												
Complete Quarterly lube chart items																																												
Tighten front and rear jackscrews, balltrack bolts																																												
Tighten pit cushion and hanger box bolts																																												
Remove the distributor clutch assy. Clean the pinion and sleeve, friction disks metal and plastic, use a fine emory cloth to smooth all surfaces, reassemble and lubricate pinion sleeve.																																												
Check: bin bumpers, shock mounts, 1 pin track, butt plates, stringers, pin holders brackets, shuttle straps, shuttle operator rod. Repair as needed Tighten: Bib and shuttle bolts																																												

AMF 82-70 / 90 ANNUAL PREVENTIVE MAINTENANCE

CENTER: _____ MONTH: _____ YEAR: _____

Lane #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40					
Check the following for worn or broken parts, repair or replace as: Table and sweep arms, shaft bushings, keyways and pillow blocks																																													
Complete Annual lube chart items																																													
Check / correct gerabox oil leaks																																													
Rebuild table drive assembly																																													
Rebuild carpet roller and pit assembly																																													
Rebuild distributor assembly																																													
Rebuild ball lift assembly, light ball sensor																																													
Clean underground return tracks, tighten dropsweep track																																													

ROLLER ASSEMBLY - FRONT

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 576

Ea



Balances and stretches the carpet belt as it carries pins & balls. Regular inspection and lubrication prevents premature wear in this critical area.

ROLLER BODY HALF

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 578

Ea



Two of these bolt to two Hinge Assemblies and make up the Front Roller.

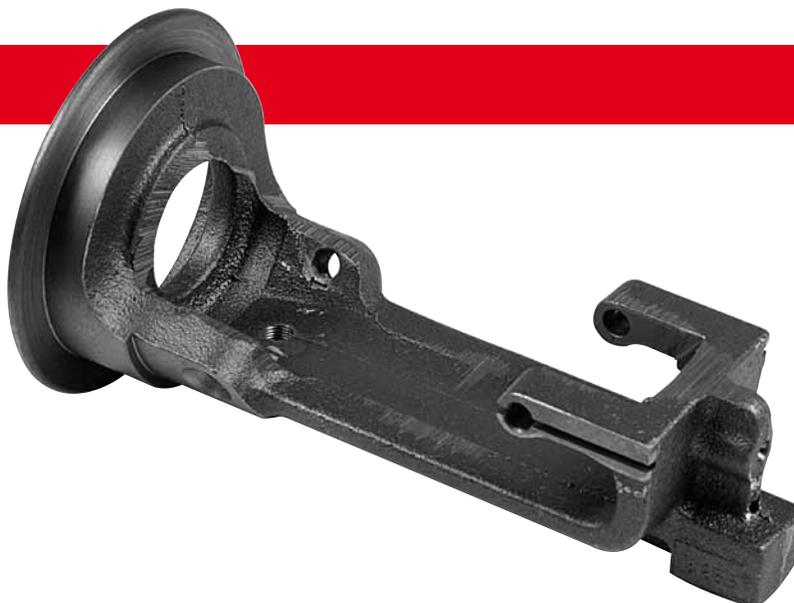
Use 16 Nyloc Screws 000 025 662BG and grind screw head edges flush before installing inside in pit.

ROLLER - HINGE

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 579

Ea



The "flange" portion of the Front Roller assembly. Two required per lane.

Assemble both of these to the same half of the roller body for proper carpet belt operation.

PIT AREA

SHAFT - HINGE

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 580

Ea



The "bearing shaft" portion of the Front Roller assembly. Two required per lane.

When rebuilding, don't forget the Pins 000 024 582BG and Retainers 913 411 100BG.

LINK - FRONT ROLLER - BRONZE

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 597

Ea



This is what pivots between the two halves of the Front Roller assembly. When assembling, make sure grease zerks point toward the hole in roller body. Interested in trying the lube-free plastic version? If so, order 000 024 760. Always replace these in pairs.

HINGE ASSEMBLY - FRONT ROLLER

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 592

Ea



The complete hinge assembly - goes in both ends of the front roller.

Assembled with the original Bronze Link, 000 024 597. Grease it before installing, and as a part of regular maintenance.

BEARING - F & R ROLLER

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 590

Ea



There are four of these per machine, one at each end of each carpet roller assembly. These can be cleaned and repacked as a part of regular pit maintenance.

ROLLER ASSY - REAR

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 002 034 (82/70-Later)

030 005 648 (82/30)

Ea

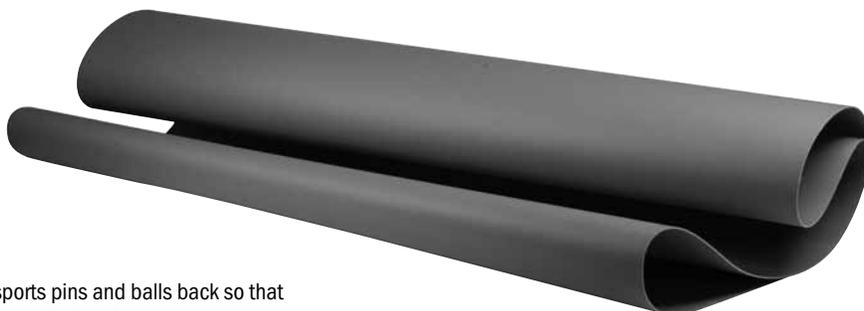


At the back of the pit, this roller drives the carpet belt. If the pulley is frozen on the shaft, loosen setscrews and start/stop BE Motor until pulley spins free.

CARPET BELTS

82/30, 82/70, 82/90, 82/90XL, 90XLI

090 006 124 (Pumpkin)
088 500 505BX (Black Carpet Belt)



Transports pins and balls back so that they can exit the pit area.

088 500 505BX (Black)
 The standard carpet belt on all our new pinspotters.

Maintains flexible contact over the pit carpet rollers, eliminating ball idling issues.

The Black Belt stays soft and flexible without stretching. Field tested for four years, it's easy to install, starts up easier, and resists lane oils.

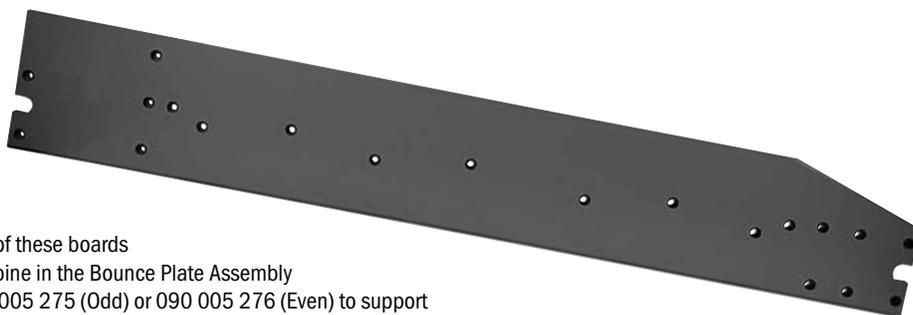
090 006 124 (Pumpkin):

- Industry Standard.
- New improved structure to improve ball movement into exit.
- Two year warranty.

PHENOLIC BOUNCE BOARD - FRONT

82/30, 82/70, 82/90, 82/90XL, 90XLI

090 005 270 (Odd)
090 005 271 (Even)
 Ea

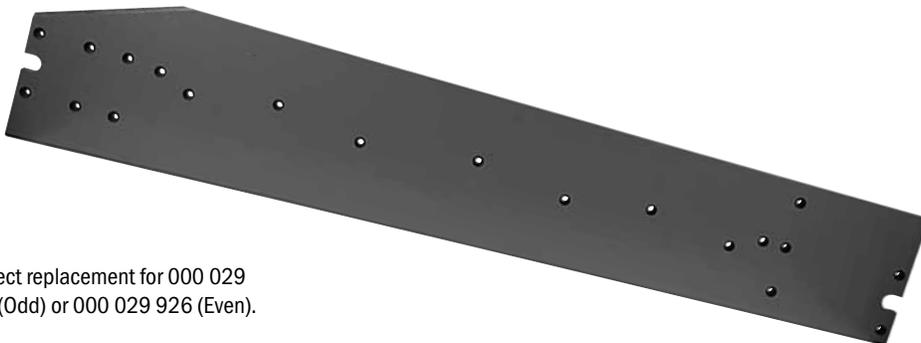


Two of these boards combine in the Bounce Plate Assembly 090 005 275 (Odd) or 090 005 276 (Even) to support and guide pins and balls as they travel across the pit area. A direct replacement for 000 029 899 (Odd) or 000 029 925 (Even).

PHENOLIC BOUNCE BOARD - REAR

82/30, 82/70, 82/90, 82/90XL, 90XLI

090 005 272 (Odd)
090 005 273 (Even)
 Ea



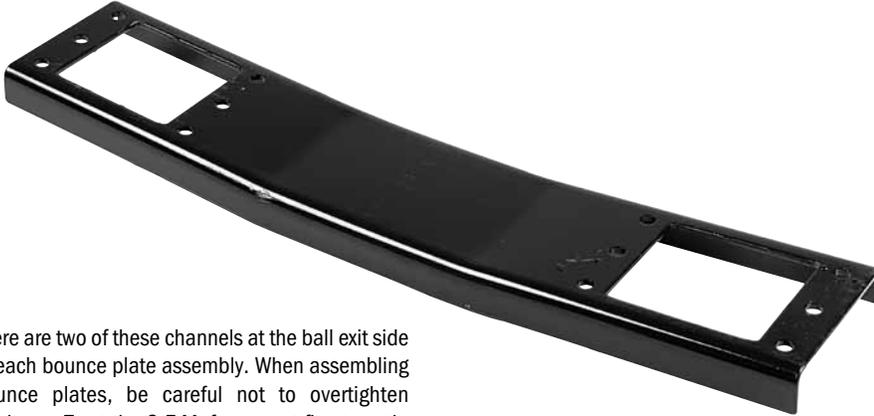
A direct replacement for 000 029 924 (Odd) or 000 029 926 (Even).

CHANNEL - BOUNCE BOARD

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 021 914

Ea



There are two of these channels at the ball exit side of each bounce plate assembly. When assembling bounce plates, be careful not to overtighten hardware. Trust the O.E.M. for correct fit, strength, and quality.

VIBRATION DAMPENER

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 021 224

Ea



Inside the carpet belt, the Bounce Plate Assembly is supported by four of these.

- Compression-type imitations of this part do not allow the pit system to work properly.
- Use the original, time-tested design to avoid pit area damage & premature wear.
- When it's necessary to enter the pit, use caution and never "hop" down in from above.

PIT SUPPORT BRACKETS

82/30, 82/70, 82/90

070 001 450 (Ball Exit Side)

070 001 451 (Common Side)

Ea



Replaces all old brackets that were odd/even lane-specific.

- Two 070 006 639 C-Washers can be placed between the bracket and the kickback plate to fine-tune fit of pit parts.
- 82/90XL and 90XLI pinspotters use Pit Support Bracket 090 004 131 on both sides of the pit.

BONDING STRAP

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 025 622

Ea



This discharges static electricity that would otherwise build up in the bounce plate assembly. If your scoring system freezes or locks up, inspect to make sure this strap is present, intact, and connected properly.

FE-BE BRACKET REPAIR KIT

82/70, 82/90, 82/90XL, 90XLI

610 902 026

Ea



If the back end of a machine migrates away from the front end, it can crack the brackets where the two machine halves meet. Use this kit to repair the damage, and make sure that Floor Bracket 000 026 464 is mounted firmly at both rear corners of the machine.

LARGE PLOW & MAT ASSEMBLY

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 027 368 (Even)**000 027 372 (Odd)****Ea**

Transitions the pins from the carpet belt to the pin elevator.

- If you are seeing damage on your pins or carpet belt, check this area for cracks and loose hardware.
- Not for use on early 82/30's.

**PLOW & MAT ASSY - SMALL RH & LH**

82/70, 82/90, 82/90XL, 90XLI

070 001 412 (Odd)**070 002 169 (Even)****Ea**

This is the plow that goes on the ball exit side of the pit. For late model 82/30's, the equivalent is RH plow 030 008 397 (Odd) or LH plow 030 008 398 (Even).

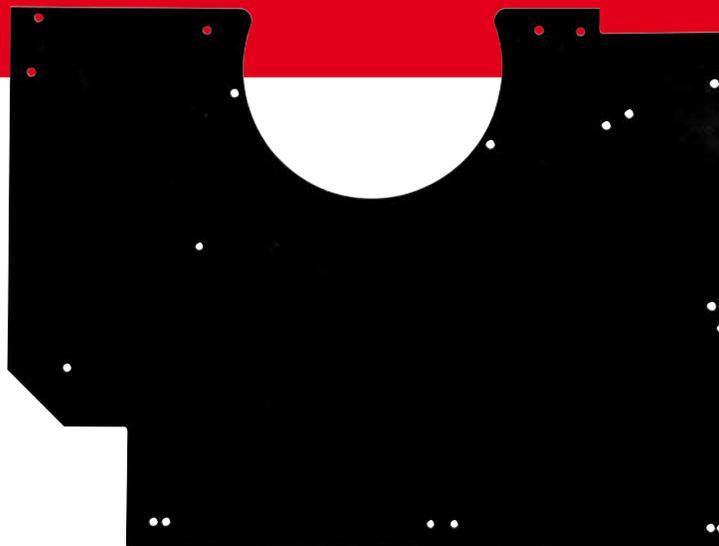
**KICKBACK PANEL - BALL DOOR SIDE**

82/30, 82/70, 82/90, 82/90XL, 90XLI

030 008 660**Ea**

This is the fibre panel for the steel kickback plate on the ball exit side. It is secured with Rivets 937 000 000BG. To install, hold the new rivets in place with duct tape.

- A direct replacement for panel 000 029 640.
- For the common (opposite) side, order 030 006 495 for 82/30's or 070 002 027 for all other models.



PIT AREA

RETAINER SUPPORT

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 022 926
Ea



Direct replacement if the Rear Roller Bearing Support breaks on the ball door side. Remove old part, drill holes if necessary and secure with 810 258 100BG screws and 844 058 002BG nuts.

PIVOT STUD

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 029 015
Ea



If a front roller pivot stud is worn out, break it out of the kickback plate with a large wrench and replace it with this. File/grind/chisel old weld as necessary to position new stud perpendicular to plate, then secure tightly with 844 074 002BG Nut and 941072200BG washer.

THRUST BEARING

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 027 641
Ea



The necessary part between the kickback and the front roller bearing support brackets. During pit service, clean all parts in this area and apply a light film of grease to both sides of this part.

SPRING - BEARING SUPPORT

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 021 204
Ea



One on each side of the pit, these springs keep the carpet belt tight. Check for separation between coils, especially at ends where the hooks bend out from the coil and always replace these springs in pairs. Some mechanics find it easier to stretch the spring into place on the back post using a 2' length of 1/2" dia. conduit as a lever.

GREASE ZERK

82/30, 82/70, 82/90, 82/90XL, 90XLI

710 501 009
Ea



A direct replacement for most grease fittings on various parts of all pinspotters. Self-locking and aligning drivable zerk for 3/16" dia. holes.

BEARING SUPPORT BRACKETS - FRONT ROLLER

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 022 249 (7-side Even)
000 029 672 (10-side Odd)
000 027 645 (7-side Odd)
000 027 646 (10-side Even)
Ea



Pivots to keep carpet belt tight and tracking properly. These are sometimes referred to as "hatchets," "Pork Chops," "flanges," or "hinges." Comes complete with rubber "half moon" 000 022 924BG, Bushing 900 112 203BG, and grease zerk 710 501 009.

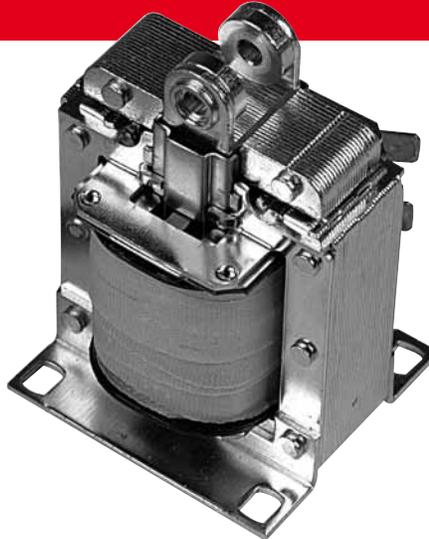
SOLENOID - 5/32" HOLE

82/30 & 82/70

000 026 027 (110 Volt)

000 027 873 (220 Volt)

Ea



Machines made before 1970 use this solenoid to actuate various mechanisms including pinfeed. This solenoid has been revised to make it more compact and eliminate dimensional issues it had with certain 82/70's.

TOGGLE TIP ASSEMBLY

82/30

030 007 152 (Original Round Rubber)

Ea



Open pinwheel 82/30's use this to cushion finger operation. Keep these parts in good order to ensure proper operation and prevent wear on related parts.

BRACKET - PIN HOLDER

82/30, 82/70

000 025 330 (Even)

000 025 331 (Odd)

Ea



Seven required per pinspotter to hold pins in the pin elevator. If pins are sticking in the wheel and going past the distributor, clean the wheel surface and check these for wear.

FLANGE BUSHING - TOGGLE HOUSING

82/30

030 007 879

Ea



On an open pinwheel 82/30, two of these are pressed into each toggle housing 030 006 631. Another QubicaAMF exclusive part.

RUBBER MOUNT - PIN ELEVATOR

82/70, 82/90, 82/90XL, 90XLI

000 029 068

Ea



Two of these support the pin rail "kidney", and one is used on the pin seating rod.

- Recently improved to improve strength and longevity.
- Hold the edge of the rubber with pliers while tightening nut to prevent twisting and extend service life.

CAM FOLLOWER

82/30

030 006 662

Ea



Goes in the Toggle Assembly on open-pinwheel 82/30's. Expect our bearings to operate smoothly, wear well, and be the right size.

PIVOT PIN - TOGGLE FINGER

82/30

030 008 308

Ea



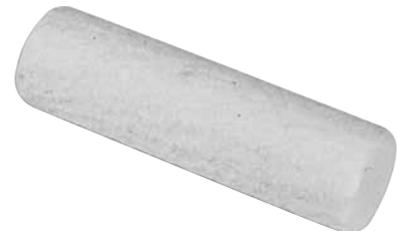
The toggle finger pivots about this pin on open pinwheel 82/30's. Servicing this area also requires X-Washer 963 200 002BG.

WICK PIN

82/70

000 029 203

Ea



The "cigarette butt" that lubricates the ring tube weldment.

- Screw through Spring 000 029 202 to adjust height.
- For best performance, split the top end to form a "Y" and fit it around the ring tube.

RING TUBE WELDMENT

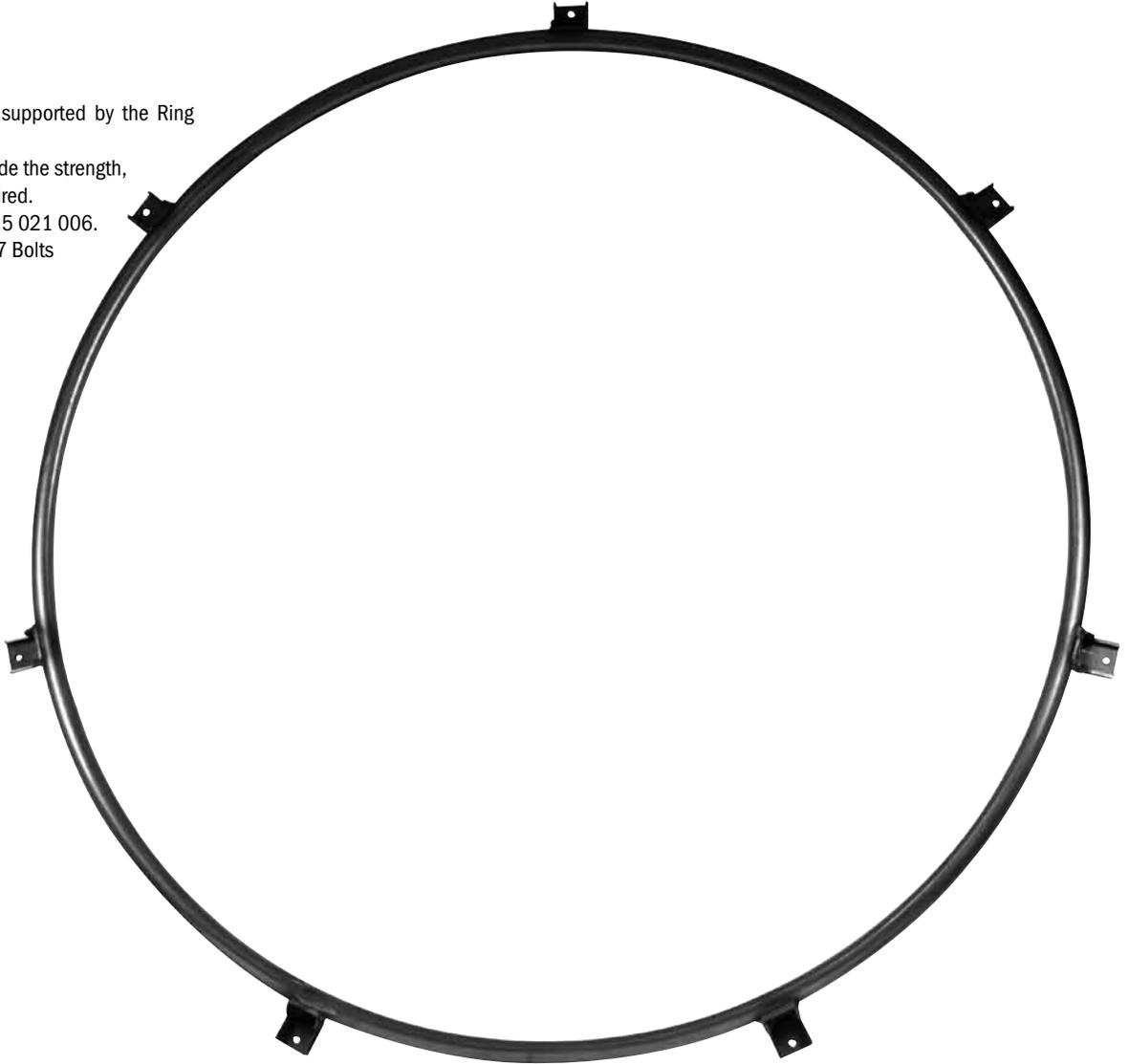
82/70

000 020 855

Ea

The pin elevator wheel is supported by the Ring Tube Weldment.

- Trust your O.E.M. to provide the strength, precision, and quality required.
- Lubricate with Way Oil 715 021 006.
- Secure with 801 149 897 Bolts and 844 049 002BG Nuts.



RING TUBE GUIDE ROLLER

000 021 211

Ea



Four of these support and guide the Ring Tube Weldment.

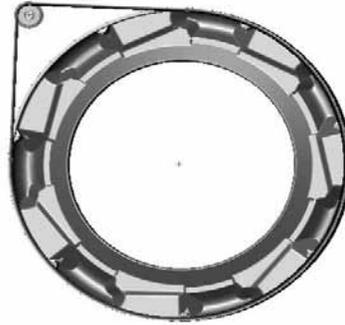
- Worn rollers can result in pin pileups and expensive repairs.
- Quickly check by rocking elevator wheel forward & back - 1/2" slop or more indicates trouble.
- For the 82/30 ring tube roller, order 030 006 663.

PIN ELEVATOR DRIVE BELT

82/70

070 002 005

Ea



The correct pin elevator drive belt for all 82/70 pinspotters.

- If using a smaller drive pulley, try the Adjustable Belt 000 025 731, Fastener 702 600 002, and Nails 716 003 000.
- 82/90 and later machines use belt 090 002 065 instead.

PIN ELEVATOR ROLLER

82/90, 82/90XL, 90XLI

090 007 327

Ea



Three of these support and guide the pin elevator wheel on late model pinspotters.

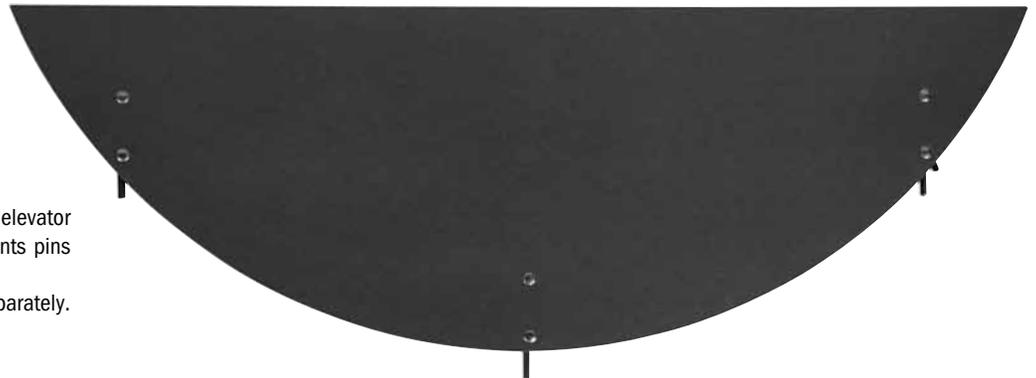
It is easy to install these without all the required parts or with the parts assembled in the wrong order. Use your service manual as a guide to ensure proper assembly.

PIN ELEVATOR GUARD ASSEMBLY

82/70

000 022 219

Ea



The "Half Moon" guard fits into the red pin elevator guard on the back of 82/70's and prevents pins from bouncing out of the elevator opening.

Replacement bracket pins are available separately. Order 000 022 222.

PIN WHEEL STRIP REPLACEMENT KIT

82/90, 82/90XL, 90XLI

090 004 043

Ea



Late model machines use this plastic strip on the inner lip of the pin elevator wheel.

- Contains Pin Wheel Strip 090 005 108 and Rivets 938 523 050
- Install so there is a 1/16" gap between the ends of the strip.
- Be sure Static Brush 090 005 144 is in place to prevent scoring system damage.

PIN ELEVATOR

AMF 82-70 / 90 MONTHLY LUBRIFICATION

CENTER: _____ MONTH: _____ YEAR: _____

Lane #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
Grease fittings for respot and spot cam follower bearings																																										
Respot / spot cams, shuttle cam surfaces																																										
Oilite bearings and roller arm in the table drive latch mechanism																																										
Oilite bearings in respot and spot levers, tension spring plates																																										
Oilite bearings in spot solenoid linkage																																										
Distributor pinion and stop blade																																										
Check ring tube oiler, refill as needed with AMF way oil																																										
Sweep pantograph link bushings																																										

AMF 82-70 / 90 ANNUAL QUARTERLY LUBRICATION

CENTER: _____ MONTH: _____ YEAR: _____

Lane #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
Table and sweep cam lever rollers, and cam lever pivots																																											
Table torque tube pillow blocks, connecting tie rod ends, bushings, table spring roller bearings																																											
Respot cells and distribution link pivot points, yoke leg bushings and spherical bearings																																											
Spot, respot arm grease fittings																																											
Sweep torque tube pillow blocks, telescoping links, connecting rod ends																																											
Respot shifter mechanism, finger link																																											
Distributor assembly, reference service manual																																											
Ball elevator, rudder drive, start switch pivots, pin ejector, track rail assembly																																											
Belt tensioner assembly																																											

SPRING - START SWITCH

82/30, 82/70

000 021 431

Ea



In machines that don't use electronic triggering, this spring holds the lever against the start switch at the top of the cushion shock. Our new improved design prevents end hooks from breaking. Early 82/30's use longer spring 000 021 334.

EAR - CUSHION HANGER

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 534

Ea



This bracket bolts to the cushion hanger weldment and attaches it to the bottom ring of the shock absorber. Keep these bolts tight and make sure the hole for Pin 000 022 821 is round and keeps a snug fit.

CUSHION SHOCK ASSEMBLY

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 022 824

Ea



Keeps the cushion assembly in the proper position while absorbing ball impact energy.

- Contains Shock Absorber 000 022 823, Sleeve 000 022 822, and Rubber Bushing 721 502 005.
- Install with spring at the top for proper performance.

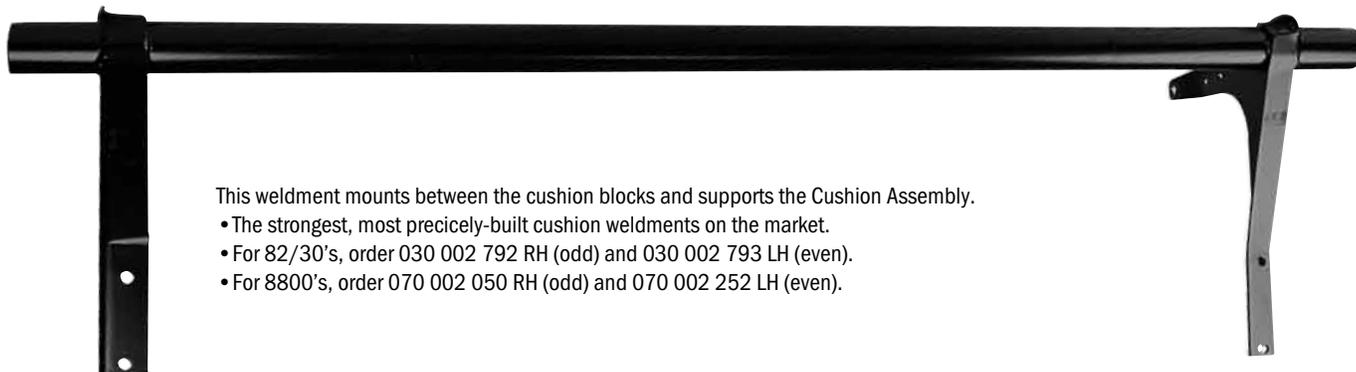
HANGER WELDMENT RH & LH

82/30, 82/70, 82/90, 82/90XL, 90XLI

070 002 050 (Odd)

070 002 252 (Even)

Ea



This weldment mounts between the cushion blocks and supports the Cushion Assembly.

- The strongest, most precisely-built cushion weldments on the market.
- For 82/30's, order 030 002 792 RH (odd) and 030 002 793 LH (even).
- For 8800's, order 070 002 050 RH (odd) and 070 002 252 LH (even).

CUSHION PLANK RH & LH

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 795 (even)

000 024 796 (odd)

Ea



The most substantial part of the cushion assembly on all AMF pinspotters. New wood sources and production methods have now made this critical part more dependable.

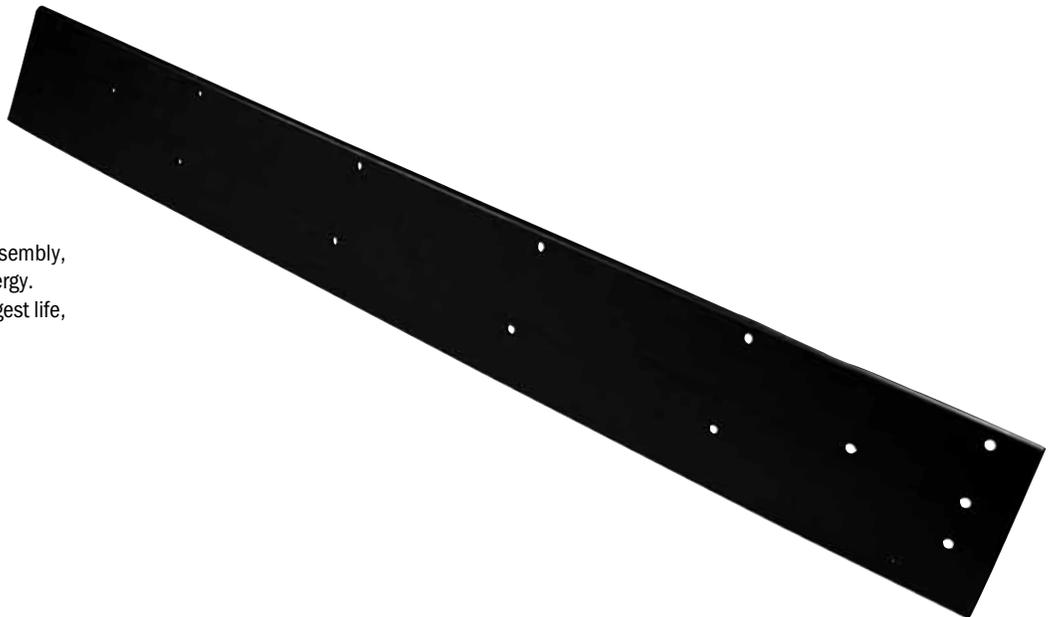
CUSHION RUBBER

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 024 807 (odd)

000 024 808 (even)

Ea



Ahead of the pin curtain in the cushion assembly, this absorbs the majority of ball impact energy. Trust the original for best performance, longest life, and best fit.

SPONGE RUBBER PAD - CUSHION ASSY

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 022 770

Ea

As an important component of the cushion assembly, the sponge pad absorbs ball impact energy. Knockoff versions of this part wear out prematurely or transfer ball energy to other parts.

**PIN CURTAIN - REVERSIBLE**

82/30, 82/70, 82/90, 82/90XL, 90XLI

000 026 450

Ea



The pin curtain hangs behind the pins and is part of the Cushion Assembly. Rugged material, stitched and riveted construction, down-to-earth price, and genuine O.E.M. fit.

CUSHION FACING

82/30, 82/70, 82/90, 82/90XL, 90XLI

090 005 230

Ea

As the front layer of a standard cushion assembly, this durable material protects balls and pins from scuffs and scrapes. A direct replacement for 070 006 761 and all other cushion facings.



AMF 82-70 / 90 SEMI ANNUAL LUBRIFICATION

CENTER: _____ MONTH: _____ YEAR: _____

Lane #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40		
Table support leg spherical bearings																																										
Table drive cam ball																																										
Apply a light film of grease to the inside of the clevis																																										
Bin switch lever pivots																																										
Off spot overtravel lever																																										
Shuttle support rod ends																																										
Front roller links, bearings and front roller supports																																										

AMF 82-70 / 90 ANNUAL LUBRIFICATION

CENTER: _____ MONTH: _____ YEAR: _____

Lane #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
Sweep motor / gearbox service, grease motor bearings, drain and refill gearbox oil, pull gearbox clean splines apply anti seize compound to the shaft splines, crank gearbox 10 times prior to installing																																											
Table motor / gearbox service, grease motor bearings, drain and refill gearbox oil, pull gearbox clean compound to the shaft splines, crank gearbox 10 times prior to installing																																											
Brackend motor service, grease motor bearing, drain and refill gearbox oil																																											
Table drive assembly																																											
Shuttle operating rod																																											
Ring tube oiler, remove spring and wick, clean out reservoir, install new wick and AMF way oil																																											

VELCRO CUSHION COVER

82/30, 82/70, 82/90, 82/90XL, 90XLI

- 070 011 840 (Cover)
 - 070 011 841 (Odd Backing)
 - 070 011 842 (Even Backing)
- Ea



An add-on item to cover the surface that takes the impact every time a ball is thrown.

- Easy way to protect rivet heads and cushion facing from wear.
- Can be added to any cushion in minutes, no disassembly necessary.
- Covers and backs are reusable.

CUSHION RIVETS - RUBBER & URETHANE "PLUS"

82/30, 82/70, 82/90, 82/90ZL, 90XLI

- 000 028 519 (Black Rubber)
 - 000 028 529 (Blue Urethane)
- Ea

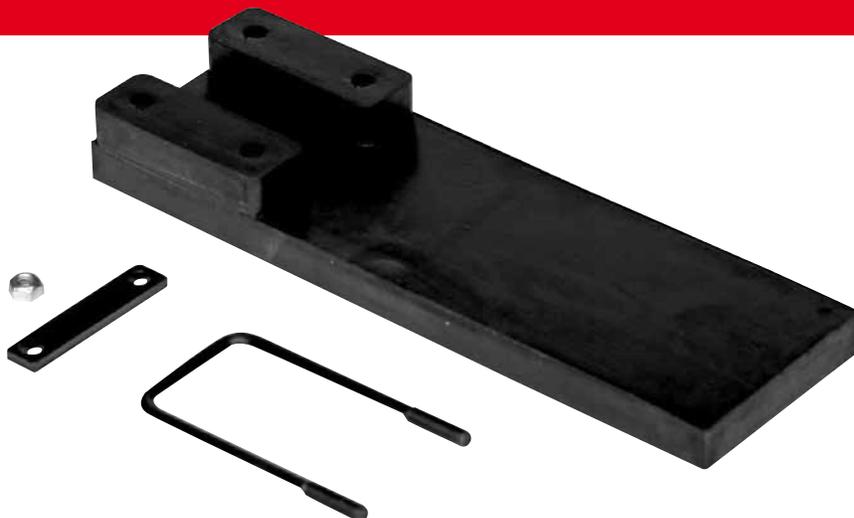


16 of these hold the cushion assembly together. Some mechanics install heavy-duty blue rivets in the high-wear positions and standard black in the others.

CURTAIN PROTECTION PAD

82/30, 82/70, 82/90, 82/90XL, 90XLI

- 070 001 432 (Pad)
 - 070 001 422 (U-Bolt)
 - 070 001 421 (Strap)
 - 844 057 002BG (Nuts)
- Ea



Aptly named, this pad keeps flying balls and pins from hitting the cushion hanger weldment and tearing the pin curtain on the ball exit side. The bottom edge of this pad seats tightly on top of the cushion plank between the curtain and the metal hanger arm.

BOX - CUSHION SUPPORT

82/30, 82/70, 82/90, 82/90XL, 90XLi

000 022 788

Ea



This box is bolted to the metal kickbacks and contains the blocks that hold the cushion. Only remove the common-side box when absolutely necessary to avoid the possibility of breaking off hard-to-reach weldnuts.

BLOCK - CUSHION SUPPORT

82/30, 82/70, 82/90, 82/90XL, 90XLi

000 022 794 (10-Side)

000 022 795 (7-Side)

Ea



Supports the cushion assembly and helps absorb ball impact energy. Don't forget the Shield, 000 022 300. For the harder urethane block, order 000 022 796 (10-Side) or 000 022 797 (7-Side)

CURTAIN LINK

82/70, 82/90, 82/90XL, 90XLi

070 005 610

Ea



Often referred to as the "Figure 8," this part holds up the curtain rod on the common side of the machine (opposite from ball exit).

- A 945 091 242 washer on both sides of this part is critical to proper performance and service life.
- At the other end of the curtain rod, use bushing 070 011 286.

BUSHING - CURTAIN ROD

82/70, 82/90, 82/90XL, 90XLi

070 011 286

Ea



On the ball exit side of the curtain rod, this bushing prevents damage to the kickplate and curtain rod.

- Often overlooked, this part prevents a lot of machine stops and premature wear.
- A direct replacement for Grommet 070 002 171.
- New XLi pinspotter use bushing part number 088 500 190 with a flat-head screw.



UNDERLANE RETURN BALL STOP KIT

All AMF underlane ball track systems

611 353 105

Ea

Ball stop flips up to allow balls to return to bowlers, but stops any balls that travel backwards.

Urethane Stop 135 001 002 and Tube 135 001 004 are the most common replacement items in this kit.



PLASTIC RUNNER - UNDERGROUND TRACK

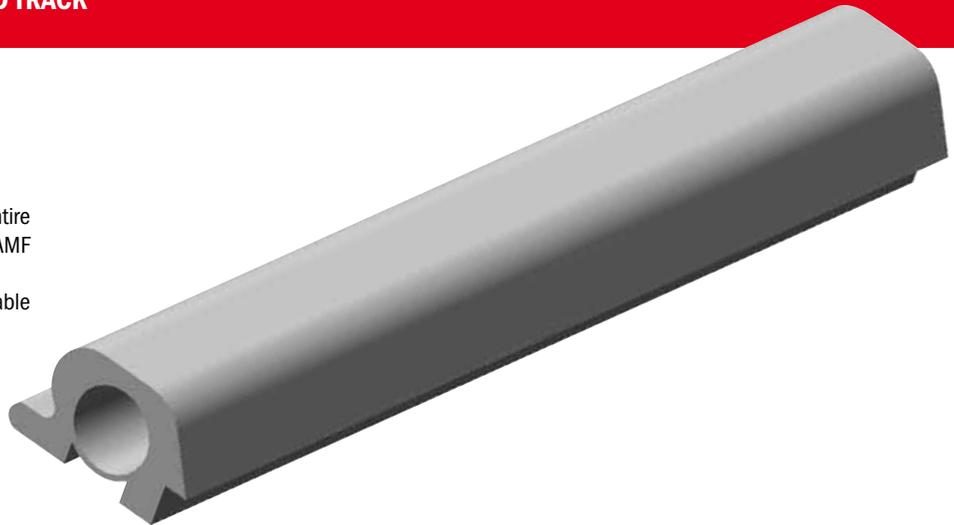
Older AMF underlane systems

167 003 122

Ea

This 67' nylon track protects balls on the entire length of most older sheet metal-type AMF underlane tracks. 2 are required per track.

Don't forget the Clips 167 002 014, available individually.



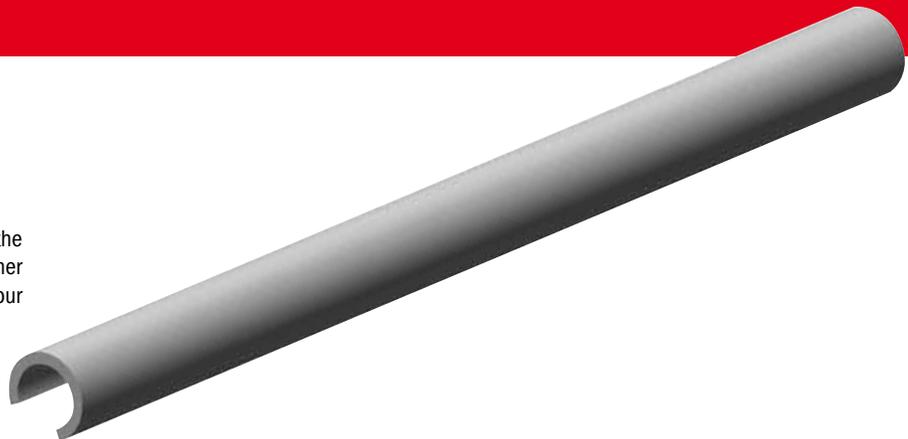
PLASTIC RUNNER - RAIL TRACK

Modern AMF underlane systems

049 006 360

Ea

This 150' C-shaped nylon extrusion snaps onto the rails on current "railroad" underlane tracks. Runner can be cut to length for any patch, including our rail-type downsweeps.



FRONT BALL LIFTS

BALL LIFT BELTS FOR OLDER AMF BALL RETURNS

Sure-Pik & Spectrum

190 001 305 (Sure-Pik)
234 001 147 (Spectrum)
Ea

These belts carry the balls from the underlane track to the ball return tray on older front ball returns. Time-tested replacement belts from Gates Rubber.



MOTOR 110V/60HZ - SURE-PIK & SPECTRUM

Sure-Pik & Spectrum

000 022 068
Ea

Replaces the original GE drive motors on older AMF front ball returns. When replacing a Spectrum motor, also order a 234 001 243 adaptor bracket.



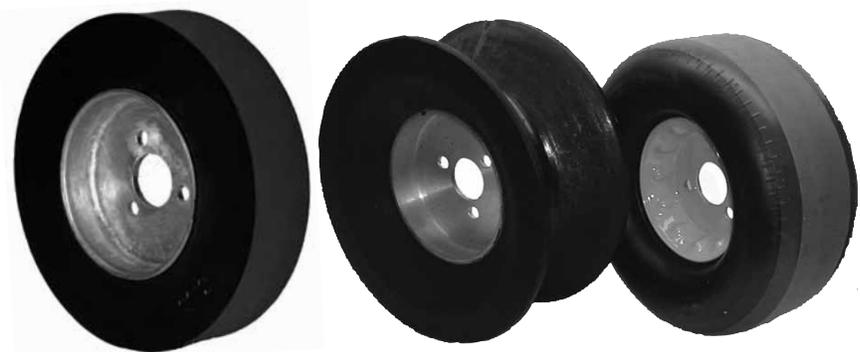
POWERLIFT TIRES

C-80, C-90, Smartpath, Profile, Brunswick Powerlift

B5352006000 ("Go-Kart" Tire)
250001163 (Blue V Wheel)
B90520060600 (Blue Urethane Foam)
Ea

Powered wheels that lift bowling balls from the underlane to the storage tray in common "S" type front-end lifts.

- With three choices, QubicaAMF has the right wheel to suit any location.
- Our taller "Options" lift uses 250 001 236 wheels instead.

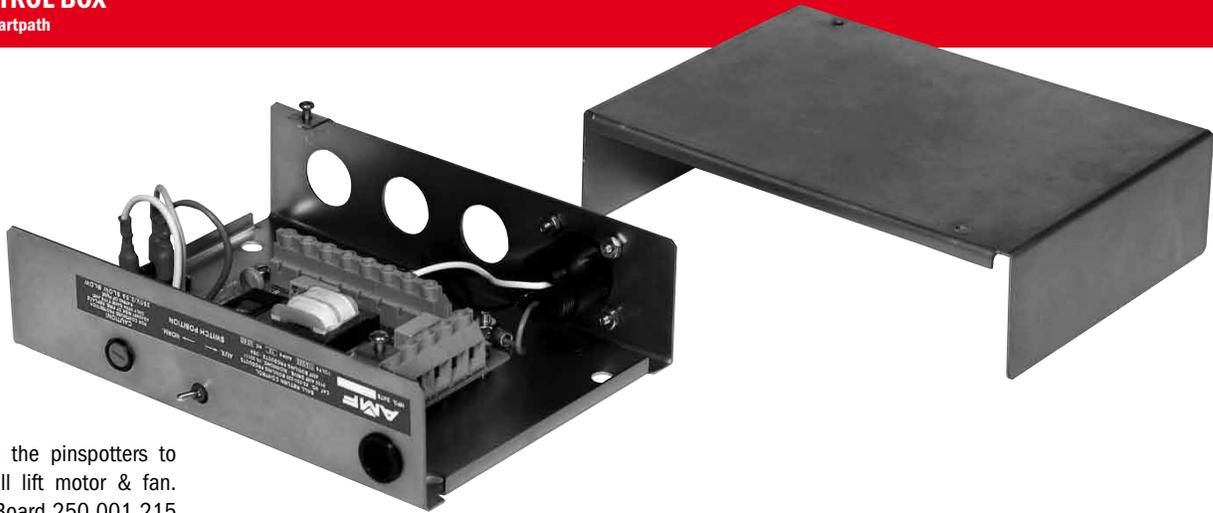


C-90 CONTROL BOX

C-80, C-90, Smartpath

250 001 014

Ea



Interfaces with the pinspotters to control the ball lift motor & fan. Contains P.C. Board 250 001 215 and Triac 250 001 217.

C-TRACKS UPPER & LOWER

C-80, C-90, Smartpath, Profile

250 001 012 (Upper)

250 001 013 (Lower)Ea



The ball rides these rails as it travels from the underlane track to the ball rack on the approach. We've made sure our ball lift tracks are the correct shape, size, and material for premium performance.

BALL LIFT DRIVE BELT

C-80, C-90, Smartpath, Options, Profile

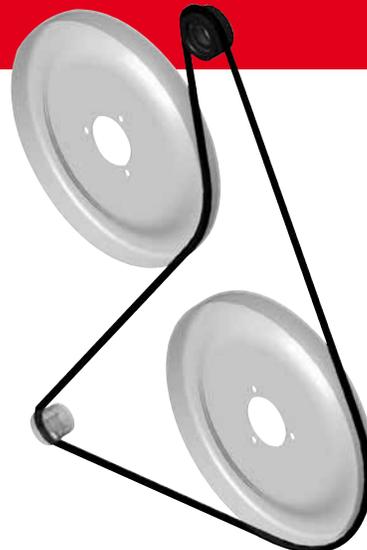
250 001 037

Ea

This AA-90 type belt drives all AMF "S" path ball lifts made before 2007. Make sure all pulleys, including the drive pulley on the motor shaft, are in perfect alignment for quiet operation and long life.

Parts to convert AA90 belt to flat belt:

- 250 001 130 Motor Pulley
- 250 001 131 Flat Belt
- 250 001 133 Pulley Wheel (2 required)
- 250 001 134 Idler Pulley



FRONT BALL LIFTS

HAND DRYER FAN - BOMAX TYPE

Smartpath ball rack

612 820 016 (Retrofit Kit)
250 001 122 (Fan Only)
Ea



A universal replacement for the “muffin fan” type hand dryer in Smartpath front ball return ball racks. Fan cage wire has been improved to resist breaking.

SWITCH KIT - BALL RETURN

Options and Profile ball racks

612 520 086
Ea



A direct replacement for Mylar Switch 252 001 034, this is everything you need to convert the 10th Frame Switches to a mechanical type.

- Eliminate switch failure with simple, reliable buttons.
- Kit includes wiring and instructions.
- Includes differently-colored mechanic call button.

HAND DRYER FAN - SQUIRREL CAGE TYPE

Options and Profile ball racks

252 001 066 (Fan Assembly)
252 001 068 (Cage Only)
Ea



Plug-in replacement for fans in current generation ball racks. The hub on the “squirrel cage” is now thicker and stronger than ever.

BALL RETURN HOOD REPAIR KIT

All Fiberglass Ball Return Hoods

250 003 100
Ea



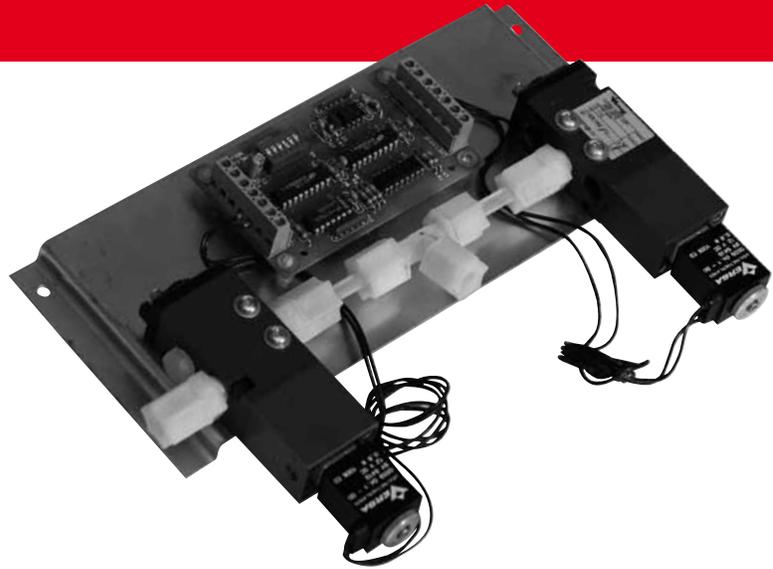
- Use this kit to repair most brands and vintages of ball return hoods and settee area equipment.
- Includes all the materials you need to safely and easily fix cracks, cuts, and breaks in molded housings, covers, and furniture.
- For a fraction of the price of new, you can return your existing equipment to like-new condition.
- Comes with an adjustable texture spray to match most original surfaces.
- AMF-original color spraypaint cans for C-80, C-90, Options and Profile are sold separately, order Silver Mink 250 003 101, or Cool Gray 250 003 102.

BUMPER VALVE CONTROL ASSEMBLY

Durabowl Automatic Bumpers

049 007 175QA

Ea



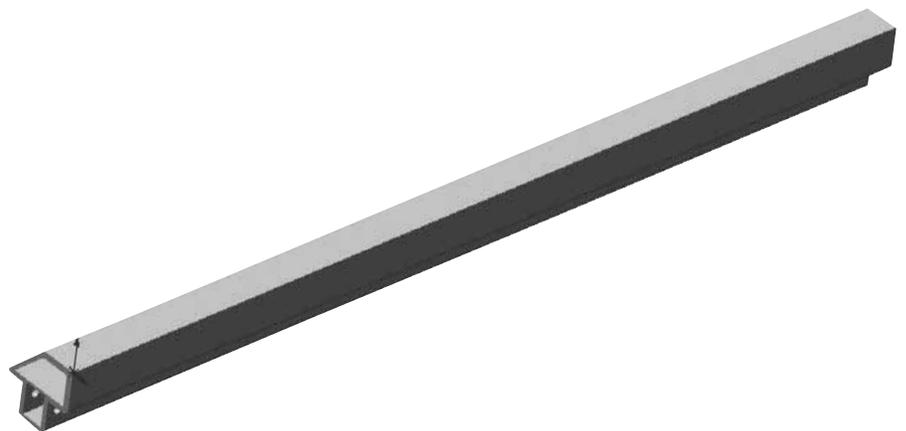
Mounted on the curtain wall, this controls the bumpers on a pair of lanes. For use with scoring system control or front desk switch box. Contains P.C. Board 049 007 125 and Valves 049 007 123.

8' 3" RAIL RH & LH

Durabowl Bumpers

049 007 091-X (10-side)**049 007 092-X (7-side)**

Ea



The first section of bumper rail on automatic and manual Durabowl systems.

When ordering, indicate your color selection by replacing the 'X' in the part numbers shown with one of the following color codes: C = Clear, B = Blue, G = Gray, N = Brown

ACTIVATOR ARM

Durabowl Automatic Bumpers

049 007 262**049 007 260 Upright Bracket****049 007 133 Activator Arm Assembly**

Ea



Pivots between the air cylinder and the upright bracket to raise the bumper.

If these arms are breaking, check entire length of bumper rail for damage or hardware catching the lane or gutter edges.

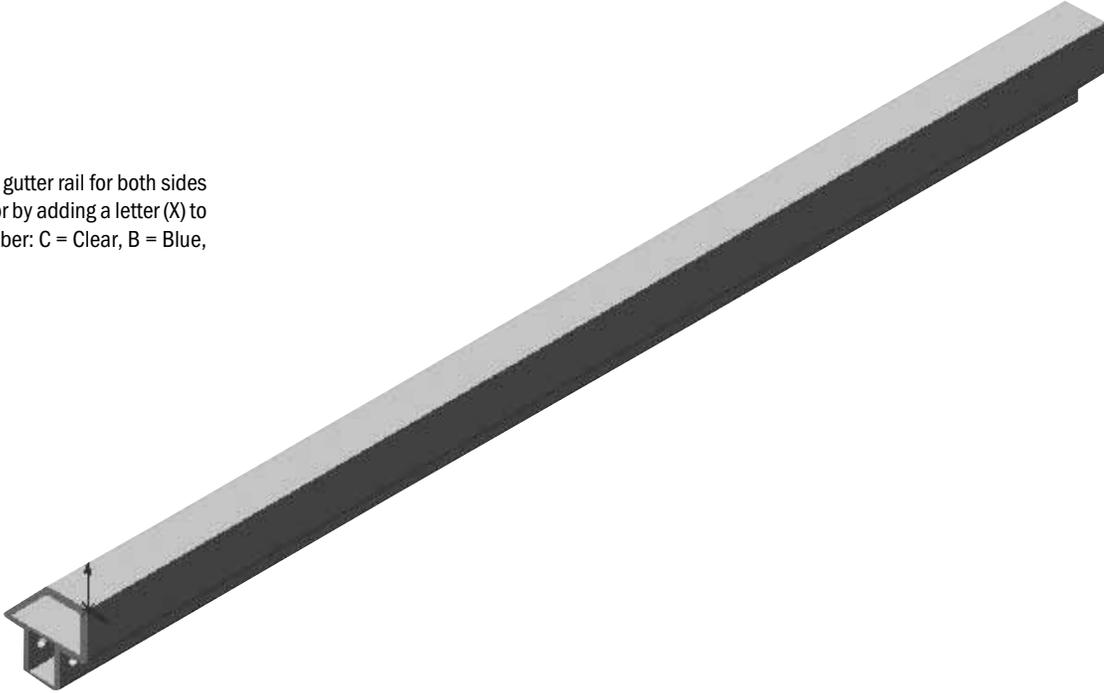
10' BUMPER RAIL PREDRILLED LH/RH

Durabowl Bumpers

049 007 075-X

Ea

The common section of gutter rail for both sides of lane. Select your color by adding a letter (X) to the end of the part number: C = Clear, B = Blue, G = Gray, N = Brown

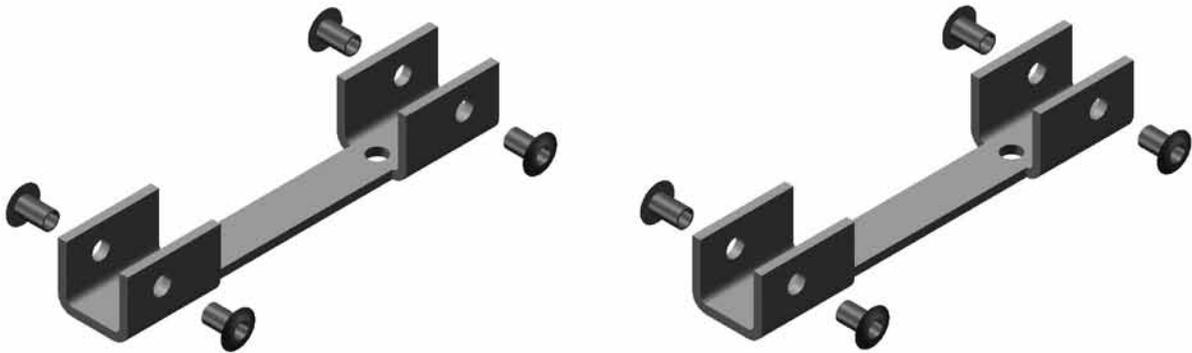


H-BRACKET UPGRADE KIT

Durabowl Bumpers

049 007 093

Ea



This set of two brackets add strength and durability to your manually operated Durabowl bumper. Installs easily above the front two uprights on the bumper rail.'

GUTTER COUPLING KIT

Durabowl Gutters

- 610 494 640-x 1.5" Kit for gutters w/o bumpers
 - 610 494 639-x 1.5" Kit for gutter with bumpers
 - 610 494 329-x 1" Kit for gutters w/o bumpers
 - 614 286 072-x 1" Kit for gutters with bumpers
- Ea



All kits include parts for one complete run of gutter. All couplings use screw 820 726 122BG-X. Replace 'x' in above part numbers for color choice: G = Grey, R = Red, B = Blue, N = Brown

REPLACEMENT KICKBACK PLATES

All wooden kickbacks under AMF Pinspotters.

- 049 001 721 Fibre Kickback Plate
 - 049 001 723 Durabowl AMF Kickback Plate
 - 049 001 720 Durabowl Brunswick Kickback Plate
- Ea



This plate supports good pin action while protecting valuable kickbacks from damage.

- Dimension: AMF 15" x 33"; Brunswick 15" x 50"
- Each plate requires about 1/4 lb. of nails to install. Order part 716 014 011BG for a 1 pound bag.

RADARAY+ FOUL UNIT KIT

Most centers that do not have overlane ball return systems.

- 612 460 036
 - 612 460 036-R (Repair/Exchange)
- Ea



- This kit includes a new foul unit, cover, reflector unit, instructions, and all necessary hardware to replace older AMF foul units.
 - Order an extra reflector unit 612 460 007 for each bank of lanes (columns, walkways, lane splits, etc.).
- Components are available separately:
- 612 460 039 Foul unit chassis assembly
 - 246 001 005 Reflector Disc
 - 246 001 017 Lens
 - 246 001 015 Cover with LED openings
 - 246 001 020 LED Assembly.

1/2" x 1/8" HPL Plugs

Bag of 100

- 049 045 031



1/8" thick plugs used to cover screw heads and ensure a consistent lane surface. These plugs are for glow lane surface. For the non-glow surface, order 049 009 534. For HPL Pindeck plugs, order 049 006 772.



FACILITIES MONTHLY PREVENTIVE MAINTENANCE

CENTER: _____ MONTH: _____ YEAR: _____

Maintenance item	Date	By	Maintenance item	Date	By	Maintenance item	Date	By
HVAC - Replace filters in all units, write the date on the filter when installed			EXTERIOR LIGHTING - Parking Lot, Building, signs, all working, time clocks adjusted for current timing			ALL DOORS - inspect / correct panic hardware, door closers, hinges, door pulls		
HVAC - Check fan motor belts for wear, grease moto bearings			PARKING LOT - Inspect for potholes, striping and fire zone curb paint, arrange for repair			INTERIOR LIGHTING - all interior and EMERGENCY EXIT lights are operational		
HVAC - Check / clean condensation drains, clean return air grills			KITCHEN VENT HOOD SYSTEM - check vent hood fire system, arrange for service, exhaust vents cleaned quarterly			FURNITURE - inspect / correct, bent chair legs, loose tables, etc.		
ROOF MAINTENANCE - clean / clear drains, gutters, down spouts are securely fastned, notify RFM of any roof leaks			REFRIGERATION EQUIPMENT - clean the condenser coils, coolers, coke machine, freezers, etc...			CARPETING - Inspect correct carpet for trip hazards, loose moldings, step off into bowlers area, etc.		
DUMPSTER AREA - clean, check / correct dumpster fence, or arrange for repairs			SPRINKLER SYSTEM - certification must be current, clean dust off of the sprinkler heads			RESTROOMS - Inspect / correct stall doors, toilet paper, soap and hand towel dispensers		
EXTERIOR BUILDING WALLS - check for graffiti, arrange for repairs			FIRE EXTINGUISHERS - inspect all service tag must be current			RESTROOMS - Inspect all toilet flush valves, toilet seas fastenings, arrange for repairs		
CANOPY OR AWNING - inspect / correct problems, or arrange for repairs			WARNING DECALS - ensure that all applicable decals are in place and readable, replace as needed			ADA - check alla ADA compliance issues, building access, signs, etc.		

SQUEEGEE BLADES

All Century stripping and combination machines

SV21 (Orange)

SV72 (Blue)

Ea



Two of these are used to collect cleaner residue, emulsified lane oil, and dirt from the lane, leaving a squeaky-clean surface ready for conditioner to be applied. Blades can often be swapped front-to-back to extend their service life.

- Use the orange SV21 blades for Summit, Magnum, Silver Bullet and Gemini. Use blue SV72 blades for Express, VLS+, and AVLS.

110V SOLENOIDS - LANE MACHINES

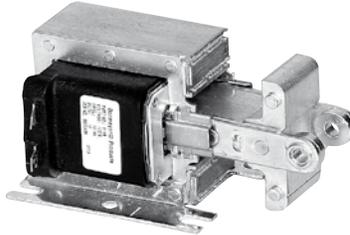
All Century lane machines

294 002 031 (Oil)

294 002 032 (RH)

294 002 033 (LH)

Ea



These solenoids engage various assemblies in the machine to clean, apply oil, and transfer oil as specified in the machine's programming.

These solenoids have been redesigned to increase service life over previous versions.

- Direct replacements for 02-002, 02-074, and SA-3039
- Identify RH and LH solenoids by which side the terminals are on when the solenoid is horizontal, facing the plunger.

DRIVE WHEEL

All self-propelled Century lane machines

294 115 404

Ea



Two of these wheels protrude from the bottom of the lane machine to move it up and down the lane with minimal effect on the lane conditioning pattern. Replacing old A0994 and A0995 wheels, these are bidirectional and handle heavy oil conditions better than older versions.

BUFFER BRUSH

All Century lane conditioning & combination machines that do not use mohair buffer tubes

SA1182

Ea



Specially designed green fibres collect oil from the transfer roller inside the machine and deposit it smoothly on the lane surface.

- Bristles wear down over time. Depending on lineage and surface, the brush should be replaced about once a year for proper oil application.
- The metal drive coupling is available separately, order A0420.

TANK HEATER KIT

Summit, Magnum, Silver Bullet, Gemini

294 300 001 (Summit)

294 300 002 (Magnum and older)

Ea



An add-on device to increase oil flow and improve consistency from lane to lane.

This kit also allows wick machines to use super-high viscosity lane conditioners such as Utopia 294 006 091

FOAM WICKS

All Century conditioning and combination machines

294 115 654 (Replacement foam SLO)

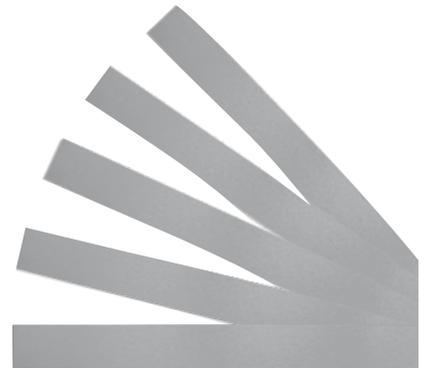
294 115 484 (Replacement foam MO)

294 115 486 (Replacement foam MHO)

294 115 488 (Replacement foam HO)

294 115 490 (Replacement foam SHO)

Ea



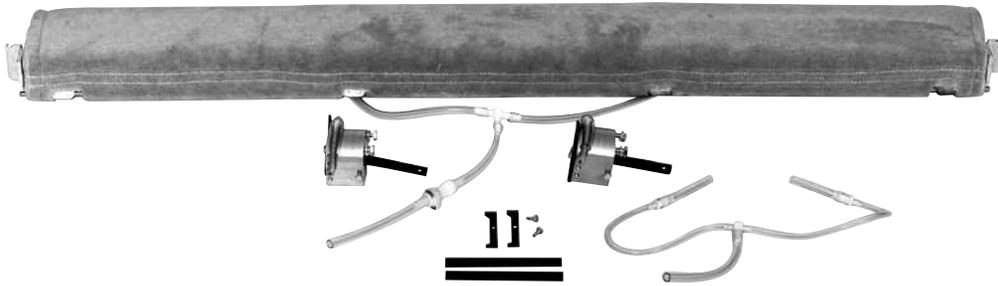
Advanced foam technology wicks oil out of the tanks and transfers it to the roller more consistently than ever. Comes in 47" length and can be cut to any tank configuration. If you have a multiple-tank machine, make wick cutting easier with the Wick Template 294 080 200.

CLEANER PAD UPGRADE KIT

Summit, Magnum, Silver Bullet

294 005 100

Ea



Easy-install kit that improves the performance of the cleaner system.

- Sends cleaner directly to the sponge and lane surface, eliminating the drip system.
- Allows more adjustment of cleaner pad height.
- For optimal performance, use Formula ACC Cleaner 294 006 081.
- Not for use in Summit "S".

NOTES

15" TOUCH SCREEN MONITOR

All PC-based back office and POS terminals

288 601 051

Ea



A direct replacement for any modern desktop computer monitor. Free up valuable counter space while improving the appearance of your customer service areas.



BALL TRIGGER KIT W/SPEED CABLE

BOSS with 82/30, 82/70, or Brunswick A

612 460 038

612 460 038-R (Repair/Exchange)

Ea



Informs scoring system of ball delivery to cycle the machine and mark score.

For best results, isolate ball detector units from vibration. Mount on a solid surface, directly to the subfloor if possible.

PINSENSING KIT

AccuScore+ with 8800 or 82/90XL

612 440 020

090 005 743 15 Pin Cable

090 005 734 9 Pin Cable

Ea



Use for interfacing AccuScore+ scoring with 90XL pinspotter chassis. One kit required per pair.

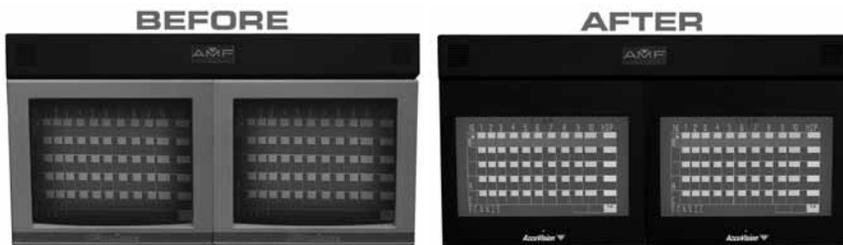
LCD MONITOR REPLACEMENT PROGRAM

All older scoring systems

Let your QubicaAMF representative customize a package for you!

Replace aging CRT technology with the latest flat-screen LCD monitors without the cost of a complete scoring system!

- LCD technology specifically engineered for the bowling industry.
- Adapts to any scoring system from the oldest to the newest.
- No more difficult, dangerous monitor and monitor board service or replacement.
- Every monitor is always bright, sharp, and easy to read.
- Optional ability to show different TV channels on each screen.
- Upgradable at any time to QubicaAMF scoring.



SCORING

CURTAIN WALL CHASSIS - ACCUSCORE

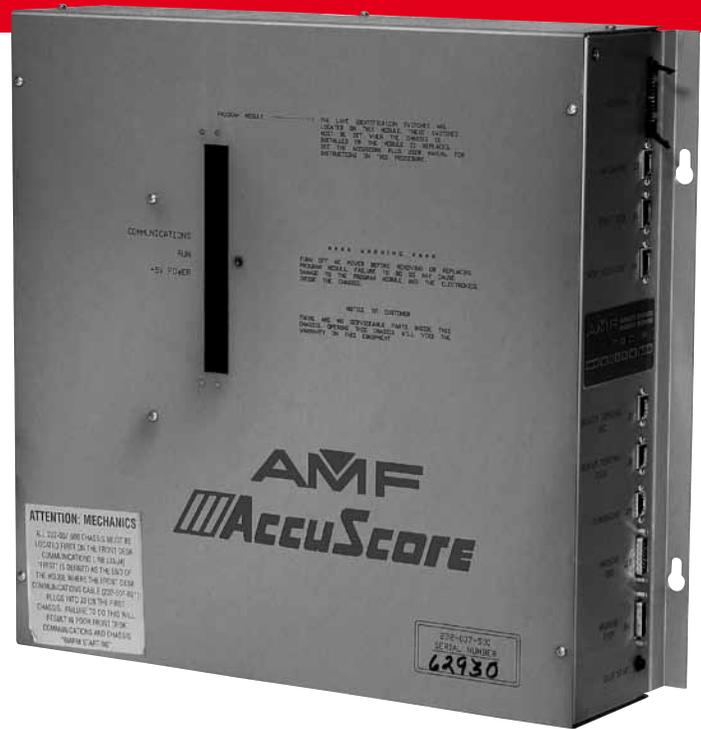
AccuScore II, 500, Plus

- 232 007 500R-R Model 7500 CWC Red, sn 50000-99999
- 232 007 500B-R Model 7500 CWC Black, sn 00000-49999
- 232 007 150-R Model 7150 CWC
- 232 007 350-R Model 7350 CWC

Ea *Repair/Exchange Only

The primary computing unit of the scoring system, mounted on the curtain wall above each pair of lanes.

- 7500R and 7500B Will not work properly unless at Eprom version 4.18 or higher.
- CWC's can be intermixed in front to back order: 7500R - 7500B - 7150 - 7350.

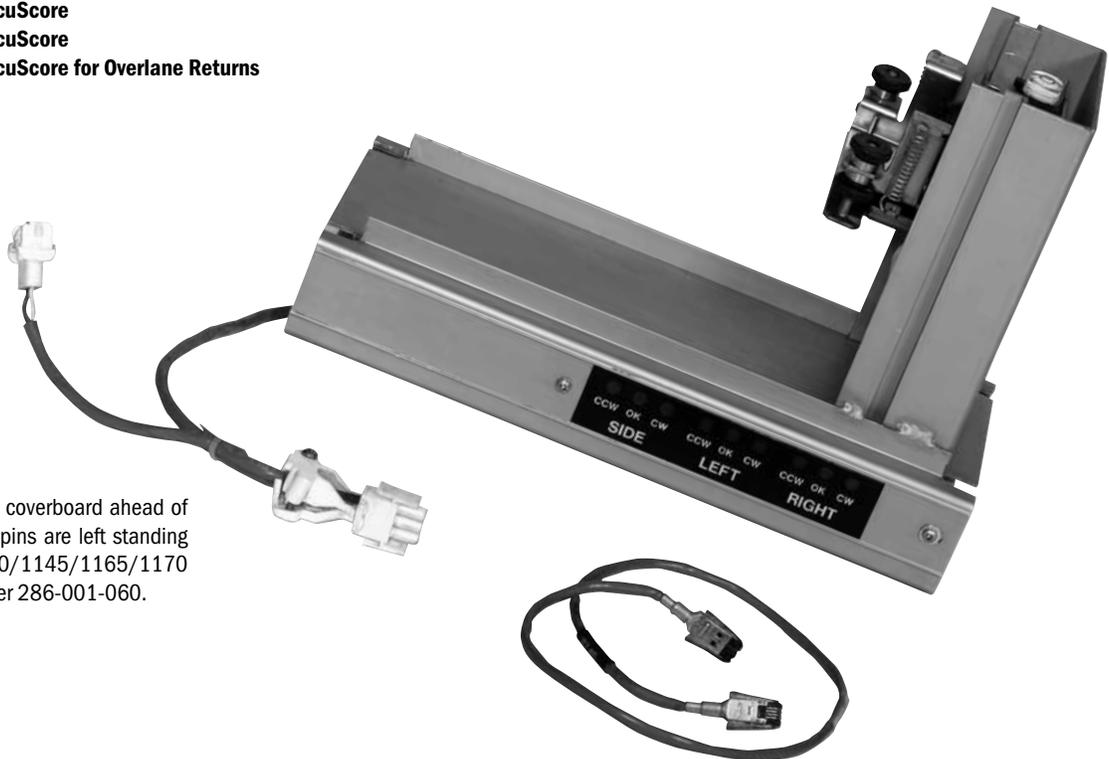


SCORING CAMERA

AccuScore and Boss systems

- 232 009 510-02-R BOSS Digital
- 244 001 165-R BOSS with Automatic Bumper
- 244 001 170-R BOSS with Auto Bumpers and Overlane Return
- 244 001 140-R BOSS Camera
- 244 001 145-R BOSS Camera for Overlane Returns
- 244 001 125-R AccuScore
- 244 001 130-R AccuScore
- 244 001 135-R AccuScore for Overlane Returns

Ea *Repair/Exchange Only

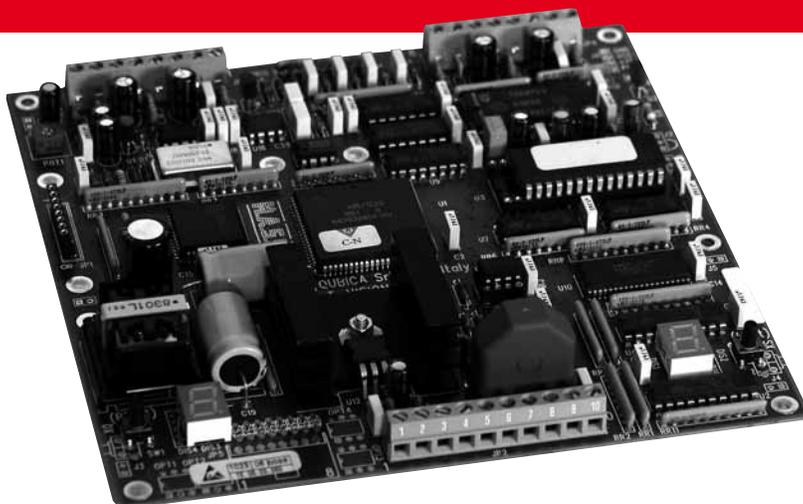


The camera sits on the wide coverboard ahead of the lanes and detects what pins are left standing after each ball. For the 1140/1145/1165/1170 Camera Interface Board, order 286-001-060.

CAMERA PC BOARD

Qubica Scoring

INTBOATVISION98
INTBOATVISION98 - R (Repair/Exchange)
 Ea



The main circuit board on the camera assembly.

Q-VISION CAMERA

Qubica Scoring

288 350 001 Q-Vision Camera Assembly
288 300 001 Q-Vision Camera
288 300 002 Q-Vision Camera Board
 Ea

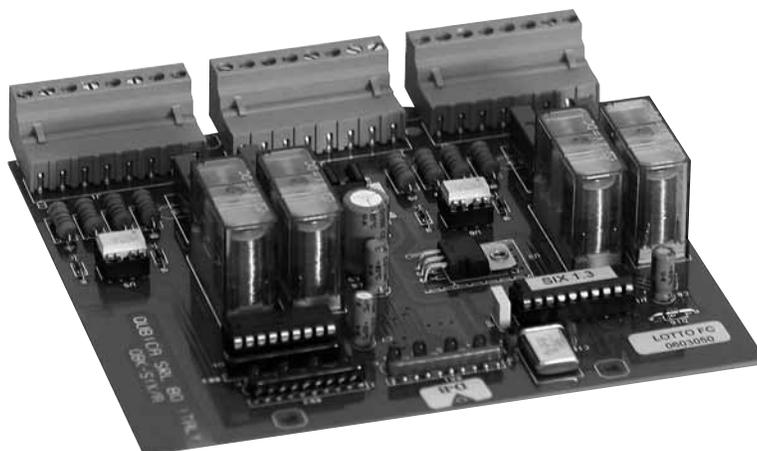


Direct replacement camera for most Qubica scoring systems.

6-BOX CIRCUIT BOARD

Qubica Scoring

INTBOASIXB
INTBOASIXB - R (Repair/Exchange)
 Ea



For M- and T-Vision cameras order CAMANAST900 for a new camera or 288 300 006 for a replacement OKKI02 camera.

SENSORS W/SUPPORT

Qubica Scoring

KITFOT1

Ea



A photocell device that detects when a ball has been delivered.

L-COM TESTER KIT

Most Qubica scoring systems

TOOKITTESLCOMP

Ea



For use with systems Version 2.07.05 and higher, this can be a very handy diagnostic tool.

BUMPER INTERFACE

Qubica Scoring and automatic bumper systems

BUMBOXBCU

Ea



This box enables Qubica scoring systems to raise and lower automatic bumper systems automatically.

BUMPER INTERFACE BOX

Qubica Scoring and automatic bumper systems

BUMBOXBCU2

Ea



AMF LOGIC INTERFACE BOARD

Qubica scoring systems and "smart" AMF Pinspotters

INTKITXLMPsix (Six Box)

Ea



This board produces command signal for AMF pinspotters, which speeds up bowling and reduces wear on machine parts. Not for use with machines that do not have MP Chassis or MP-emulating function and necessary wiring and hardware.

Page Number	Part Number	Description	Page Number	Part Number	Description
66	000020855	Ring Tube Weldment 70	47	000024621	Filler Front
64	000021204	Spring - Bearing Support	47	000024628	Rubber Pad - Front Filler
66	000021211	Roller - Pin Elevator Ring Tube 70	50	000024641	Bumper - Ball Lift Adjust
62	000021224	Vibration Dampener	49	000024651	Link Assy Lower
69	000021334	Spring - Start Switch - Early 30	5	000024657	Spring - Cam Lever
69	000021431	Spring - Start Switch - Common	52	000024659	Ball Lift Yoke - Lower
9	000021442BG	Rubber Washer - Solenoid 70	52	000024661	Pulley - Ball Lift Belt
17	000021784	Washer - Slotted	50	000024663	Track Cover - Upper
11	000021881	Bearing - Clevis Rod End	49	000024673	Spring - Distributor 30 - Ball Lift
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13	000022168	Spring - Sweep Brake	70	000024795	Cushion Plank - LH-Even
67	000022219	Pin Elev. Guard Assy	70	000024796	Cushion Plank - RH-Odd
67	000022222	Pin Brackets - Pin Elev. Guard Assy	70	000024807	Cushion Rubber RH-Odd
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35	000022717	Pin - Dist Shaft Balls - 30-70	49	000024812	Clutch Pulley Assy 5" LH-Odd Side
71	000022770	Sponge Rubber Pad - Cushion	36	000024892	Ball Brg Retainer - 30-70
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13	000023279	Urethane Bumper - Sweep Link	35	000026461BG	Balls - Dist Shaft - 30-70
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60	000024597	Link - Front Roller - Bronze	64	000027646	Bearing Support Assy - RH-LH
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31	070006667	Trip Casting - Roll Pin Type	50	070011280	Ball Lift Belt - Wide/Deep Groove
23	070006674	RS Cell #7 - Bolt Connection	74	070011286	Bushing - Curtain Rod
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33	070006679	Sleeve - Dist Pinion	54	070011641	Urethane Ball Door LH-Even
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37	090003665	Klixon Thermal Protector 90 BE 50hz	7	090005700-R	82/90 XL Chassis 115v RB
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7	090003748	CHASSIS BREAKING CAPACITORS	85	090005734	9-Pin Cable
42	090003766	BE Motor 60Hz 90-XL-XLi	85	090005743	15-Pin Cable
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43	090004548	Combo Motor - Sm Plug 3-Bolt 50Hz	75	167003122	Plastic Runner - Underlane Track
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76	250001236	V-Wheel - Options Lift	20	610704011	Yoke Repair Kit
78	250003100	Ball Return Hood Repair Kit	27	610704032	Distributor Assembly
78	250003101	Silver Mink Touch-Up Paint	38	610704042	WH BE Motor-GB 60Hz LH-Even Ln
78	250003102	Cool Gray Touch-Up Paint	38	610704042-R	BE LH Motor Gearbox 60 Hz RB
78	252001034	10th Fr Sw (obsolete-use 612 520 086)	38	610704043	WH BE Motor-GB 60Hz RH-Odd Ln
78	252001066	Fan Assembly - Hand Dryer	38	610704043-R	BE RH Motor Gearbox 60 Hz RB
78	252001068	Cage - Hand Dryer Fan 5/16 Hub	38	610704052	Motor & Gearbox Combo 115v 60Hz
86	286001060	Camera Interface Bd Brkt Asm	38	610704052-R	FE Motor Combo Gearbox 60Hz RB
87	288300001	OKKIO Analog Camera w/Lens	55, 56	610704098	PBL Template & Drill Bits Kit
87	288300002	Q-Vision Camera Board	5	610704141	82/70 S & T Relay Conversion Kit
87	288300006	OKKIO 2 Analog Camera	51	610704151	Lower D-Bore Shaft Kit
87	288350001	Q-Vision Camera Base Asm	27	610709811	Rough Top Dist Belt - 3 PK w/Laces
85	288601051	ELO Touchscreen 1715L APR	6	610709870	XOP Board
83	294002031	Oil Solenoid	6	610709870-R	XOP Bd w/Out Cable Asm RB
83	294002032	RH Solenoid	46	610900051	BE GB Packaging Kit 90-XL
83	294002033	LH Solenoid	45	610900063	Combo GB Rebuild Kit 50Hz
84	294005100	Cleaner Pad Upgrade Kit	45	610900064	Combo GB Rebuild Kit 60Hz
84	294006081	Formula ACC Cleaner 2.5 Gal.	46	610900116R	BE GB Seal Kit
83	294006091	UTOPIA Lane Cond 1 Gal	62	610902026	FE BE Bracket Repair Kit
83	294080200	Wick Cutting Template Tool	23	610903709	Respot Cell Repair Kit
83	294115404	Drive Wheel	51	610905704	STRT BOR BRNG & SPCR KIT
83	294115484	Replacement Foam Strip MO	75	611353105	Underlane Return Ball Stop Kit
83	294115486	Replacement Foam Strip MHO	6	612362068	Strike/Foul Mask Board

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85	612440020	Pinsensing Kit - AccuScore-90XL	40	785501372	WH Combo Switch - Aux. Board
81	612460007	Radaray Reflector Unit (Narrow Div.)	40	785501384	WH BE Cent. Switch - Sm Disk 60Hz
81	612460036	Radaray + Foul Unit	40	785501386	WH Combo Switch - Main Board
81	612460036-R	Radaray Plus Foul Detector RB	37	785501388	Klixon Thermal Protector 30BE 50hz
85	612460038	Ball Trigger Kit w/Speed Cable	37	785501389	Klixon Thermal Protector GE BE 60hz
85	612460038-R	Ball Trigger Kit w/Speed Cable	37	785501392	Klixon Thermal Protector GE Combo
81	612460039	Radaray + Chassis	37	785501393	Klixon Thermal Prot. 70 WH Combo
78	612520086	Switch Kit - Ball Return	37	785501394	Klixon Thermal Prot. 70 WH BE 60hz
31	612700001	CLUTCH KIT 82-70	39	785501402	Belleville Washer - WH BE Motor
78	612820016	Retrofit Kit - Smartpath Hand Dryer	37	785501508	Klixon Therm. Prot. 70 GE BE 50hz
81	614286072-X	1" Coupling Kit with bumpers	40	785501531	SWITCH ROTATING 50 C
42	701019007	OB Rotor/Endbell Bearing 70 GE BE	37	785501540	Klixon Therm. Prot. 70 GE Combo 50
42	701020091	OB Rotor/Endbell Bearing 70 WH BE	37	785501564	Klixon Thermal Prot. 70 WH BE 50hz
42	701021010	OB Rotor/Endbell Bearing Common	37	785501591	Reset Button Protect Plate
31	701710098	Bushing - Trip Casting - Nylon	37	785501592	Pin Reset Button Protect Plate
31	701712097	Bushing - Trip Casting - Brass	39	785501663	WH BE Stator Assy 60Hz 110V
67	702600002	Fastener - Adjustable Pin Elev. Belt	40	785501664	WH BE Centrifugal Switch - Sm Disk
12, 64	710501009	Grease Zerk	39	785501666L	WH BE Rotor & Worm 60Hz LH-Even
33	715010205	Lubricant - Pinion & Sleeve	39	785501666R	WH BE Rotor & Worm 60Hz RH-Odd
43	715011803	Anti-Seize Compound	37	785502005	Klixon Thermal Protector Nat Combo
66	715021006	Way Oil - Ring Tube Lube	37	785502020	Carbon Brush - National Combo
37	715021171	Synthetic Gearbox Oil - OBS	37	785502080	Klixon Thermal Protector Nat BE
37	715021706	Genuine AMF Gearbox Oil - 12 Qts.	42	785502087	OB Rotor/Endbell Bearing 90 Combo
37	715021716	Genuine AMF Gearbox Oil - 1 Qt.	42	785502088	OB Rotor/Endbell Bearing Natl BE
67	716003000	Nails - Adjustable Pin Elev. Belt	40	785502258	National BE Motor Replacement 50Hz
81	716014011BG	Nail Brad for Apps Cov Bag	40	785502259	National BE Motor Replacement 60Hz
41	716501009	Seal - Worm Input WH & GE 70	39, 45	785502260	National Combo Motor Rplmt. 50Hz
41	716503022	Seal - Dist Output WH & GE 70	39, 4	785502261	National Combo Motor Rplmt. 60Hz
41	716503023	Seal - Pin Elev & Pit Drive WH & GE	40	785502300	WH BE Centrifugal Mech - Wide Disk
69	721502005	Rubber Bushing - Cushion Shock	45	785503071	Oil Seal - BE Pin Elev. Output 90-XLi
24	730035025	Clip - Ball Joint - Brass	45	785503072	Oil Seal - Dist Drive & Pit Drive BE 90
24	730036025	Clip - Ball Joint - Silver	45	785503073	Oil Seal - Combo Output Shaft 90-XL
37	743000020	CPTR-460-552MFD110AC	45	785503074	Oil Seal GB
7	743000307	CAPACITOR 220V CHASSIS BREAK			(obsolete-use 785 503 104)
7	743513028	Magnetic 30A Breaker	45	785503104	Oil Seal - Worm Input GB 90-XLi
6	751001031	Indicator Lamp Bulb - Mask Board	11	792505005	Spring Puller Tool
6	755504048	Back End Relay - Sealed Type	23	792506033	Glide Insert - RS Finger - Alum Table
7	755520062	MOTOR DRIVER SCR OUTPUT DUAL A	8	792512019	AMP Crimping Tool
7	755520074	RELAY 1.5A - HIGH SURGE	52	792514040	Bearing Installation Tool -
8	760001070	Chair Terminal	52	792514041	Bearing Removal Tool - Ball Lift Yoke
8	760002061	J-Strip Terminal - Brass	22	793509036	Thin 1/4" Wrench - 70 RS Cell
8	760002063	J-Strip Terminal - Silver	23	801149100	Carriage Bolt - Steel Table
8	760011197BG	AMP Pin	66	801149897	Carriage Bolt 1/4-20x3/4 -Pin Elev 70
8	760017036	Straight Terminal - Large Gauge Wire	64	810258100BG	Socket Hd Cap Screw 5/16-24 x 5/8
8	760017044	Straight Terminal - Small Gauge Wire	30	813540082BG	Screw 10-32x1/2 PH
8	760019201BG	AMP Socket	81	820726122BG-X	Coupling Screw Bag/20 (choose color)
41	785501134	Planet Gear - Westinghouse Combo	12	835549002BG	Hex Jam Nut 1/4-20
41	785501179	Ring Gear - Westinghouse Combo	50	835558002BG	Hex Jam Nut 5/16-24
41	785501291	Wheel Shaft - Westinghouse Combo	50	835565002	Hex Jam Nut 3/8-16

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12	835570002BG	Hex Jam Nut 7/16-20
33	835582002	Hex Jam Nut 5/8-18
12	835670002BG	Hex Jam Nut LH Thread 7/16-20
11	839665002BG	Flexloc Nut 3/8-16
22	840049002BG	Flexloc Nut 1/4-20
5	843140002BG	KEPS Nut 10-32
66	844049002BG	Stover Nut 1/4-20
73	844057002BG	Stover Nut 5/16-18
64	844058002BG	Stover Nut 5/16-24
11, 64	844074002BG	Stover Nut 1/2-20
50	900110081BG	Sleeve Bushing 5/8 ID
64	900112203BG	Bushing - Bearing Support
53	900208091BG	Bushing - Cam Sensor Assy
42, 43	907202500	Shaft Key - BE Motor-GB 90-XL-XLi
35	908048480	Pin - Dist Shaft Balls - 90-Later
60	913411100BG	Retainers - Front Roller Link
31	919006800BG	Internal Tooth Washer
45	919007500	#5103-50 Retain Ring
14	919010700BG	Retaining Ring - Sweep Link Pin
63	937000000BG	Rivets - Kickback Panel
67	938523050	Pop Rivet - Pin Wheel Strip
64	941072200BG	Flat Washer 1/2" ID
74	945091242	Washer - Curtain Rod
9	948041100	Rubber Washer - Solenoid 90
30	948767132BG	Flat Washer 5/16 ID
30	957100002BG	Lockwasher #10
65	963200002BG	X-Washer - Toggle Assy
83	a0420	Drive Coupling - Buffer Brush
83	A0994	Drive Wheel (obsolete-use 294 115 404)
83	A0995	Drive Wheel (obsolete-use 294 115 404)
76	B53520060000	Lift Tire - Bruns/C-90/Profile
76	B90520060600	Urethane Foam Ball Lift Tire
88	BUMBOXBCU	Bumper Interface
88	BUMBOXBCU2	Bumper Interface
87	CAMANAST900	T-Vision Camera
87	INTBOASIXB	6-Box Circuit Board
87	INTBOASIXB-R	6-Box Circuit Board Repair/Exchange
87	INTBOATVISION98	Camera PC Board
87	INTBOATVISION98-R	Camera PC Board Rebuilt
88	INTKITXLMPsix	XLMP Interface Board for 6-Box
88	KITFOT1	Sensors w/Support
83	SA1182	Buffer Brush
83	SA3039	Solenoid Asm 110v UL SB Oil
83	SV21	Squeegee - Orange - SB/Mag/Summit
83	SV72	Squeegee - Blue - Express/VLS
88	TOOKITTESLCOMP	L-Com Tester Kit



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