

## HOW TO ORDER PENN REEL PARTS

1. State reel model for which parts are intended.
2. Order parts by name and number.
3. A Pro-forma invoice will then be sent showing parts prices plus shipping and handling charges.
4. Your remittance will then insure prompt shipment.
5. For faster service we suggest you see a local dealer stocking Penn parts.
6. Minimum charge for parts order is \$1.00.
7. For telephone orders, call Philadelphia at (215) 229-9415.

## LIMITED WARRANTY

Penn Fishing Tackle Mfg. Co. warrants your reel to be free from defects in materials and workmanship for a period of one year from the date of purchase. This warranty does not cover damage or malfunctions caused by accident, abuse or normal expected wear. If your reel has a defect within the terms of the warranty, you should return it to us insured at either address indicated below, and we will repair or replace your reel, at our option, without further cost to you. If, however, we determine after inspection that the repair is not covered by the provisions of this warranty, the reel will be repaired and returned to you at a reasonable charge for labor, parts and return postage.

ALL WARRANTIES WHICH MAY BE IMPLIED BY OPERATION OF LAW, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE, SHALL BE LIMITED TO ONE YEAR FROM THE DATE OF PURCHASE. IN NO EVENT SHALL PENN FISHING TACKLE MFG. CO. BE LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES FOR BREACH OF THIS WARRANTY OR ANY OTHER WARRANTY WHICH MAY BE IMPLIED BY LAW.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, AND SOME STATES DO NOT ALLOW THE EXCLUSION OF CONSEQUENTIAL OR SPECIAL DAMAGES, SO THE ABOVE LIMITATIONS AND/OR EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

## SERVICE OUT OF WARRANTY

Your local Penn dealer can provide fast and convenient service for your Penn reel. You may also return it to Penn for service at either address below. Send it insured and include a short note with your reel stating the problem. To avoid errors, please print your name and address clearly on the package and allow approximately three weeks for Penn to receive, service and return your reel. A reasonable charge will be made for parts, labor and return postage.

PENN FISHING TACKLE MFG. CO.  
Factory Service Department  
3028 W. Hunting Park Avenue  
Philadelphia, PA 19132

PENN FISHING TACKLE MFG. CO.  
Western Warehouse  
550 W. Patrice Place Unit A  
Gardena, CA 90248

**PENN FISHING TACKLE MFG. CO. RESERVES THE RIGHT TO MAKE CHANGES IN PRICES OR SPECIFICATIONS WITHOUT NOTICE.**

# Penn reels®



## MAG POWER MAGNETIC CASTING REELS 970 - 980

### INSTRUCTION AND PARTS MANUAL

PENN FISHING TACKLE MFG. CO.,

# OPERATING FEATURES

## 980-970 MAG POWER SERIES

### ECENTRIC LEVER

Solid, positive action allows easy shifting. Push eccentric lever forward to put reel in gear, pull backward to put reel in free spool.

### CLICK WARNING DEVICE

Push forward (down) to engage clicker, pull backward (up) to disengage clicker. Invaluable under certain conditions, the clicker alerts angler when fish is taking line.

### COUNTERBALANCED HANDLE

Large oversize handle features comfortable barrel knob and counterbalance for easy reeling.

### MODIFIED TAKE-APART SYSTEM

Loosen four captive side plate screws on right side plate for easy access to insides of reel.

### SPOOL TENSION CONTROL

Primary control for adjusting spool tension. Turn clockwise for more tension, counter-clockwise for less tension.

### MAGNET CONTROL

Exclusive fine tuning control for backlash-free casts. Turn slotted screw clockwise for more magnet control, counter-clockwise for less. Use notches in side plate for handy references while adjusting magnet control.

### ROD CLAMP SYSTEM

New clamp screw system does away with cumbersome wing nuts. Screws turn into reel stand. New slotted rod clamp allows fast, easy, sure mounting and removal of reel.

### STAR DRAG

Stainless steel and exclusive brake lining drag system for smooth, dependable performance. Turn oversize five point star wheel clockwise for more drag, counter-clockwise for less.

# ADDITIONAL FEATURES OF THE 980-970

- Gear ratio of 4¼ to 1. The perfect blend of speed and strength.
- Stainless steel main and pinion gears.
- Deep seated chrome plated reel stand sets low on rod. Allows distance casters to wrap entire thumb around spool for extra long casts.
- Precision machined black anodized aluminum spool.
- Shielded stainless steel ball bearings.
- Reinforced fiberglass sideplates—light, strong, contoured for easy palming.
- Flanged gold anodized aluminum rings.
- Extruded black anodized aluminum spacer bars.

## HOW TO ADJUST YOUR PENN MAG POWER REEL FOR CASTING

Your Penn Mag Power casting reel features two controls for trouble-free casting.

The spool tension bearing is your mechanical control. It contains a spring loaded plunger which exerts various degrees of pressure on the spool, depending on your setting.

The magnet control is your fine tuning adjustment for precision control settings. It contains a magnet composed of rare earth materials, which emits a magnetic field. This magnetic field, through a series of complex molecular interactions, alters the rotational speed of any metal passing through its field. Thus, the rotation of the Mag Power spool will be affected by this magnetic field. Turning the slotted screw in or out will vary the distance between the magnet and the spool, which will in turn govern the rotational speed of the spool while casting or free spooling.

## SPOOL TENSION CONTROL

Mechanical control is in center of left side plate. Turn clockwise for more spool tension, counter-clockwise for less tension.



## MAGNET CONTROL

Magnet control is fine tuning adjustment for trouble-free casts. Turn slotted screw in (clockwise) for more spool control, out (counter-clockwise) for less control. Notches in side plate make handy references for adjustments.



## SETTING THE CONTROLS

First mount your Penn Mag Power reel on the rod you plan to use. Then fill your Mag Power with good quality line to within 1/8" of the spool's rim. On the end of your line, attach a lure or weight representing the general weight you will be using.

Check that the slotted magnet control screw is completely turned in. Turn in the slotted screw by turning clockwise. The magnet control is self-contained in the side plate. It will not screw free of the side plate when completely backed off, nor will it hit the spool when turned in completely. The slotted screw's turning range is approximately 1¾ turns.

Hold the rod at an angle just above horizontal and put your Mag Power in free spool. Allow the weight to fall to the ground and adjust the spool tension control (+ for more tension, - for less tension) so that the weight falls easily but the line does not backlash.

Now try a cast suitable to your type of fishing. There are many different casting techniques that vary according to regions, conditions and species sought. However, all successful casters aim for control, using a smooth delivery and follow through while casting. If you feel that the Mag Power's controls are set too tightly and they are hampering casting distance, decrease either the magnetic control or the spool tension control. Depending on the nature and style of your particular casting, some trial and error casting and adjustment sequences are recommended to achieve backlash-free casting. Notches in the side plate allow easy references while adjusting the magnet control.

## CARE AND LUBRICATION

Your Penn Mag Power casting reel is quality manufactured for maximum durability, but like any precision instrument, reasonable care will ensure its best performance through many seasons.

After each fishing trip, the reel should be cleaned. If you have been fishing in salt water, wipe or wash the reel with fresh water, preferably warm, to remove any accumulated salt deposits.

Should you wash the reel, be careful not to use a driving force of water, since this will force the salt deposits into the reel's internal mechanisms. Rather, use a very fine spray to dissolve the salt on the external parts of the reel.

Dry excess moisture from the reel and then sparingly lubricate all exposed areas. Many fishermen use a pressurized spray oil for quick, easy protection after washing or wiping down their reels. Try not to get any oil on the fishing line, but should any excess spray oil get on your line, it will do no harm if you wipe the excess off. Other fishermen will apply a light coating of oil with a rag to the exposed metal parts on the reel for protection against the elements.

Your Mag Power reel should be stored in a cool, dry place. Do not store in a plastic bag, as the reel may develop condensation.

Periodically examine your reel and tighten loose screws and fittings. Depending upon use, your Mag Power reel should be overhauled at least once every season.

Frequently lubricate all frictional points. For best results, use Penn Reels lubricant. Penn's tubes of lube are just the ticket for lubricating oil ports and applying a few drops of oil where they will do the most good. Remember, only a few drops of oil are sufficient in most cases. Do not over lubricate!

## EXTERNAL LUBRICATION

Major points for external lubrication are:

- Sealed gear sleeve oil port on handle screw.
- Sealed handle knob oil port.
- Sealed eccentric lever oil port.
- Left and right side bearings. Unscrew bearing covers and apply oil in the bearings and on the spool spindle.
- Clicker button. Apply a few drops of oil and work back and forth so oil will saturate frictional points.
- Slotted magnet control screw. Back off screw and apply a few drops of oil to the threads. Should you desire to return to your original setting on the magnet control, be sure to use the series of notches on the sideplate as references before backing the screw off.

# INTERNAL LUBRICATION

For a more thorough, internal lubrication, back off the four captive side plate screws connecting the right side plate to the spacer bar and reel stand.

You can now remove the entire right side plate. Grip the handle to help you work the side plate free of the reel. Hold the spool so it will not accidentally fall out once the side plate is removed. Do not try to pry the side plate free with a screwdriver, since you may mar the lustrous finish on your Mag Power reel.

After carefully removing the spool, you can gain access to the insides of the Mag Power reel. The left and right side bearings, spool spindle, eccentric and clicker assemblies can now be more thoroughly lubricated. Again, only a few drops on these critical areas are all that is needed.

Lubricating the magnet on the magnet control is not necessary. It is best to lubricate the threads on the slotted magnet control screw from the outside, as described above in the external lubrication instructions.

Lubricate the main and pinion gear by smearing the teeth with a good quality waterproof grease. Do not pack the gears with grease, or do not lubricate the gears with oil, because the drag washers will then become soaked with lubricant. Since the star drag operates on a friction principle with one type of washer slipping against another type, excess lubricant can defeat the efficient operation of the star drag system.

# PARTS LIST FOR THE MAG POWER SERIES 970-980

Key Number	Description	Part Number 970	Part Number 980	Key Number	Description	Part Number 970	Part Number 980
1	Right Side Plate	1-970	1-970	32	Stand Screw—Left Side	39-6	39-6
2	Right Side Ring	2-970	2-970	33	Rod Clamp	33-970	33-970
3	Bridge w/Sleeve	3-970	3-970	34	Rod Clamp Screw	34-970	34-970
4	Washer (Fiber)	4-349	4-349	35	Click Tongue (Not Shown)	35-155	35-155
5	Main Gear	5-970	5-970	36	Click Button (Not Shown)	36-60	36-60
6	Drag Washer (3 Req.)	6-970	6-970	37C	Spacer Bar (Control)	37C-970	37C-980
7	Washer Set (Metal)	7-970	7-970	37N	Spacer Bar (Penn)	37N-970	37N-980
8	Tension Spring	8-349	8-349	38	Spacer Bar Screw (R.S. Upper)	38-970	38-970
9	Spacing Sleeve	9-970	9-970	38A	Spacer Bar Screw (Lower)	38A-970	38A-970
10	Star Drag Wheel	10-970	10-970	39	Spacer Bar Screw (L.S. Upper)	157A-12	157A-12
11	Eccentric Jack	11-200	11-200	40	L.S. Bearing (Complete)	40-970	40-970
12	Pinion Yoke	12-155	12-155	40A	L.S. Bearing Cup	40A-970	40A-970
13	Pinion Gear (w/Ring)	13-970	13-970	40B	L.S. Bearing Pressure Plug	40B-970	40B-970
14	Dog Spring	14-99	14-99	55	R.S. Bearing	55-113H	55-113H
15	Dog	15-970	15-970	55A	L.S. Bearing	55-116	55-116
16	Bridge Screw (Lower)	16-60	16-60	57	Pressure Plug Spring	57-970	57-970
17	Bridge Screw (Upper)	17-80	17-80	103	R.S. Bearing Cup	103-970	103-970
18	Clutch Spring	18-60	18-60	110	Handle Lock Screw	110-60	110-60
19	Eccentric	19-200	19-200	173	R.S. Bearing Retainer	173-113H	173-113H
20	Eccentric Spring	20-155	20-155	173A	L.S. Bearing Retainer	173-140	173-140
21	Eccentric Lever	21-200	21-200	302	Magnet Housing (w/Magnet)	302-970	302-970
22	Eccentric Screw	22-99	22-99	302A	Magnet Housing Spring	302A-970	302A-970
23	Handle Screw	23-114	23-114				
24	Handle (Complete)	24-970	24-970				
26	Right Side Bearing (Complete)	26-970	26-970				
27	Left Side Plate	27-970	27-980				
28	Left Side Ring	2-970	2-970				
29	Spool (Complete)	29L-970	29L-980				
30	Stand	30-970	30-980				
31	Stand Screw (Center)	31-19	31-19				
31A	Stand Screw—Right Side	31A-970	31A-970				

