



CATALOG No. 20

with

INSTRUCTION MANUAL

and

REPAIR PARTS LIST



PENN FISHING TACKLE MFG. CO.
PHILADELPHIA 32, PA.

DO YOU KNOW THAT



ALL 5 NEW
IGFA SALT WATER RECORDS FOR 1955
WERE MADE WITH

PENN REELS

**WINNER OF MORE THAN 50%
OF ALL PRIZES**

**IN FIELD & STREAM'S FISHING CONTEST
FOR THE 7TH CONSECUTIVE YEAR**

In 1955, 54 of 100 Prize Winners used Penn Reels

Striped Bass
Tarpon
Channel Bass

White Marlin
Blue Marlin
Atlantic Sailfish
Pacific Sailfish

Snook
Spotted Weakfish
Bluefin Tuna

**PENN BRAND TOOK MORE PRIZES THAN ALL OTHER 9 MAKES LISTED
AND IN FRESH WATER . . .**

Penn Reel users won honors in the following Divisions:

Smallmouth Bass
Lake Trout

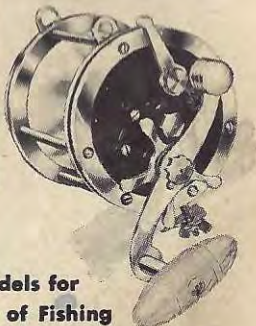
Muskellunge
Northern Pike
Brown Trout — Open Division
Rainbow Trout — E. and W. Divisions

Silver Salmon
Chinook Salmon

**ALSO . . . Penn Reel anglers won SPECIAL prizes for out-
standing catches of Pacific Yellowtail and Bluefish.**

*Penn Reels EARN the title of
"Reels of Champions"*

1. 92 lb. Black Drum caught by James Aaron, Cambridge, Md., on Penn Peer, Jr. #109.
2. 120 lb. 8 oz. Amberjack caught by C. W. McAlpin of Casper, Wyo., with Capt. Henry Chee, Kailua Kona, Hawaii, on a Penn Senator.
3. 105 lb. Yellowtail — all tackle 50 lb. test record. Taken by Milton Yant, Los Mochis, Mexico, on a Penn Long Beach Reel #67.
4. 136 lb. Wahoo, caught by Richard J. Geyer off Palm Beach, Fla., on a 6/0 Penn Senator.
5. 2536 lb. White Pointer Shark, largest fish ever taken with rod and reel. Caught by Alf Dean on a 16/0 Penn Senator, Ceduna, Australia.



The Record Proves it Pays to Fish with Penn Reels

See Them At Your Penn Dealer



**77 Models for
All Kinds of Fishing**

PHILADELPHIA 32, PENNSYLVANIA

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For Strength and Stamina...

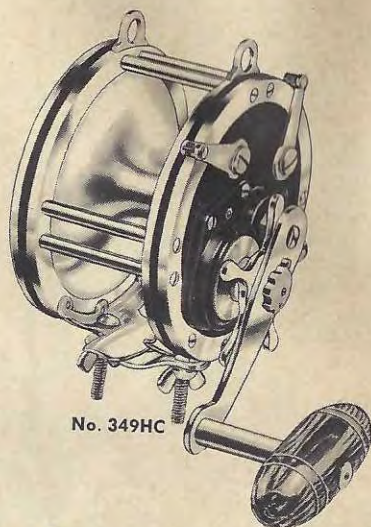
PENN'S NEW

NARROW SPOOL REEL

No. 349

MASTER MARINER

4 MODELS



an extra rugged reel . . .

***with features never before incorporated
in a single reel***

1. One-piece cast metal spool
2. Auto brake lining drag (equal to 6/0 Senator)
3. Six point support reel stand
4. Harness lugs
5. CHOICE of gear ratio—High or Standard
6. Choice of convertible star drag
7. Improved gear bridge—stronger gears
8. Two hole handle on high gear ratio model

LINE CAPACITY

400 YARDS No. 9 LINEN

Will handle wire, lead core, mono, linen and nylon

4 MODELS

No. 349 gear ratio $2\frac{1}{3}$ to 1	\$28.00
No. 349C as 349 but with convertible star drag	29.00
No. 349H gear ratio $3\frac{1}{4}$ to 1	28.00
No. 349HC as 349H but with convertible star drag	29.00

Kwik-Play Rod Holder

YOUR SILENT FISHING PARTNER

DE-LUXE MODEL

Swing and Dip Action
Drop-Back Attachment
Two Ball Adaptors
Demountable



\$98.00

MODEL A

Swing and Dip Action
One Ball Adaptor
Demountable



\$69.00

MODEL B

Swing Action
One Ball Adaptor
Demountable



\$48.00

MODEL C

Swing Action
One Ball Adaptor
Demountable



\$26.00

WHAT IT IS:

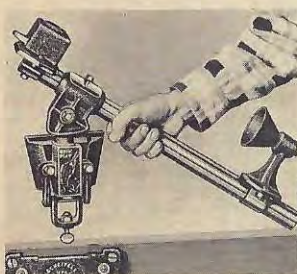
KWIK-PLAY ROD HOLDER is a mechanical device to hold your rod while fishing. It consists of:

1. Base plate, which is screwed to coaming of boat.
2. Demountable frame which contains the mechanism for the up and down and the rotary swivel motion.
3. A tube, onto which is attached the adjustable butt rest at lower end and the head or holding device, at the upper end.

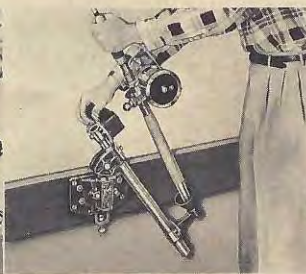
The rod butt is placed into the butt rest and the special ball adaptor attached to rod or reel clamp is then placed into the patented "sure grip" head, to be released at will by a light finger touch on the trip release.

WHAT IT DOES:

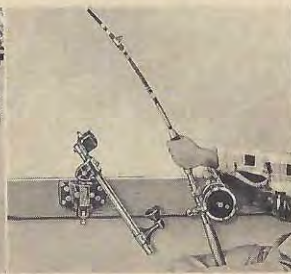
1. Holds your rod and minds your fishing between strikes.
2. Holds your rod surely and safely.
3. Trolls, strikes and plays fish unattended.
4. Can eliminate the need for outriggers on boats.
5. Enables you to fish four lines and gaff your own fish.
6. Saves your strength for fighting fish.
7. Prevents costly line tangles and loss of tackle.



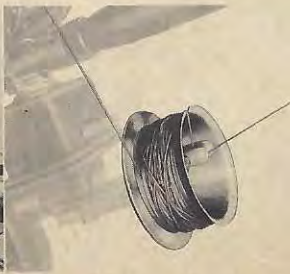
Mounting or dismounting is the work of an instant—only the base plate remains permanently attached.



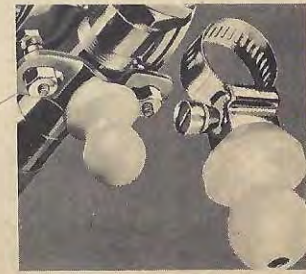
Rod is easily, instantly removed from Holder by simply pressing handy trip release—a mere finger-touch, no matter how strong the pull.



When you've brought your catch alongside, you can return rod to Rod Holder, and gaff your own fish unassisted—a big advantage—especially if you're alone.



DROP-BACK ATTACHMENT Consists of: 1. A spool to hold whatever length of line you think is needed for drop-back. 2. A mechanical clothespin holding device, to hold drop back line until strike occurs.



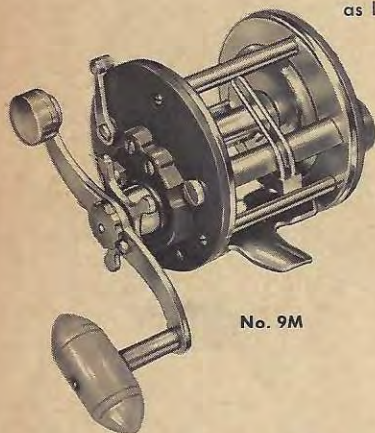
BALL ADAPTOR

BAR TYPE

STRAP TYPE

Monofil[®] LEVEL-WIND REELS

— All three models are available with either lightweight plastic spools or metal spools of chromed brass. All spools are precision-fitted for trouble-free use with monofilament line as light as 10 lb. test, as well as all other types of lines.



No. 9M

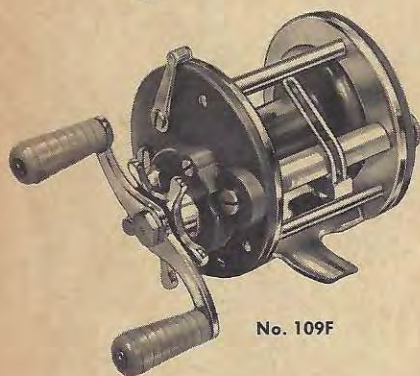
PEERLESS MONOFIL

Level-Wind Reels

Gear Ratio 3 to 1, Star Drag, Free Spool Action, Spare Pawl, Precision-Fitted Spools, Positive Level-wind Mechanism.

List Price

No. 9F	2 $\frac{3}{8}$ " Reel Stand, Plastic Spool, 370 yd. cap.	\$13.50
No. 9S	As above, with 2 $\frac{1}{16}$ " Reel Stand for Saltwater Rods	13.50
No. 9MF	2 $\frac{3}{8}$ " Reel Stand, Metal Spool, 400 yd. cap.	14.50
No. 9MS	As above, with 2 $\frac{1}{16}$ " Reel Stand for Saltwater Rods	14.50
	Left hand models extra.....	\$ 4.00



No. 109F

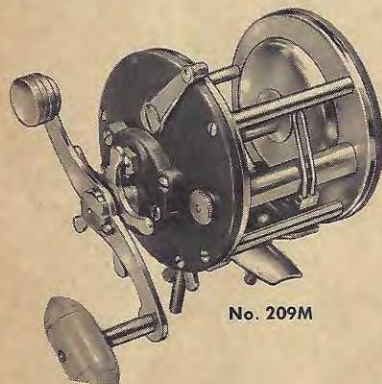
PEER MONOFIL

Level-Wind Reels

Gear Ratio 3 $\frac{3}{4}$ to 1, Star Drag, Spare Pawl, Precision-Fitted Spools, Positive Level-wind Mechanism.

List Price

No. 109F	2 $\frac{3}{8}$ " Reel Stand, Plastic Spool, 370 yd. cap.	\$12.00
No. 109S	As above, with 2 $\frac{1}{16}$ " Reel Stand for Saltwater Rods	12.00
No. 109MF	2 $\frac{3}{8}$ " Reel Stand, Metal Spool, 400 yd. cap.	12.95
No. 109MS	As above, with 2 $\frac{1}{16}$ " Reel Stand for Saltwater Rods	12.95
	Left hand models extra.....	\$ 4.00



No. 209M

PEER MONOFIL SR.

Level-Wind Reels

Gear Ratio 3 to 1, Star Drag, Free Spool Action, Spare Pawl, Precision-Fitted Spool, Positive Level-wind Mechanism.

List Price

No. 209	Plastic Spool, 600 yd. cap., Wt. 18 $\frac{1}{2}$ oz.	\$14.95
No. 209M	Metal Spool, 700 yd. cap., Wt. 19 $\frac{1}{2}$ oz.	15.95
	Left hand models extra.....	\$ 4.00

ALL CAPACITIES SHOWN BASED ON
12 LB. MONOFILAMENT LINE

We recommend using #9 linen line as backing on these reels, to help cushion the pressure developed by monofilament line retrieved under tension.

Monofil CONVENTIONAL REELS

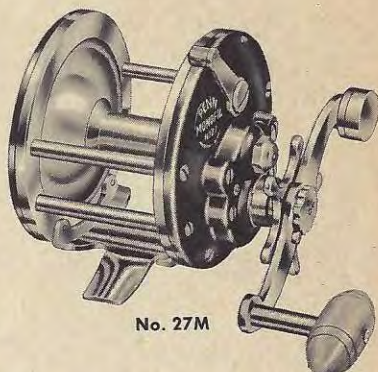
Penn Monofil Reels provide the advantages and thrills of fishing with light lines, lures and tackle—plus the **LANDING POWER** of conventional star drag reels, to bring in fighting fish.

MONOFIL MODEL #27

Gear Ratio 3 to 1, Star Drag, Free Spool Action, Chrome Plated, Precision - Fitted Spool.

List Price

No. 27F 2 $\frac{3}{8}$ " Reel Stand, Plastic Spool, 225 yd. cap.	\$ 9.50
No. 27S As above, with 2 $\frac{1}{16}$ " Reel Stand for Saltwater Rods	9.50
No. 27MF 2 $\frac{3}{8}$ " Reel Stand, Metal Spool, 340 yd. cap.	10.50
No. 27MS As above, with 2 $\frac{1}{16}$ " Reel Stand for Saltwater Rods	10.50
Left hand models extra.	\$ 1.50



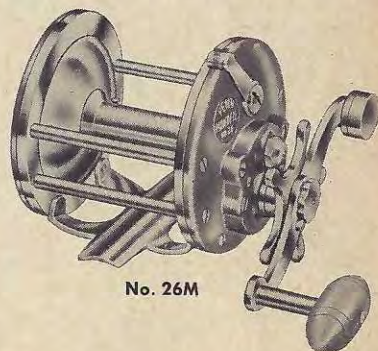
No. 27M

MONOFIL MODEL #26

Gear Ratio 3 to 1, Star Drag, Free Spool Action, Chrome Plated, Precision - Fitted Spool.

List Price

No. 26 Plastic Spool, 340 yd. cap., Wt. 13 $\frac{1}{2}$ oz.	\$10.50
No. 26M Metal Spool, 450 yd. cap., Wt. 15 oz.	11.50
Left hand models extra.	\$ 1.50



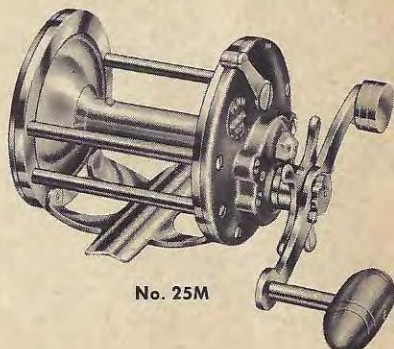
No. 26M

MONOFIL MODEL #25

Gear Ratio 3 to 1, Star Drag, Free Spool Action, Chrome Plated, Precision - Fitted Spool.

List Price

No. 25 Plastic Spool, 450 yd. cap., Wt. 15 oz.	\$11.50
No. 25M Metal Spool, 565 yd. cap., Wt. 16 oz.	12.50
Left hand models extra.	\$ 1.50.



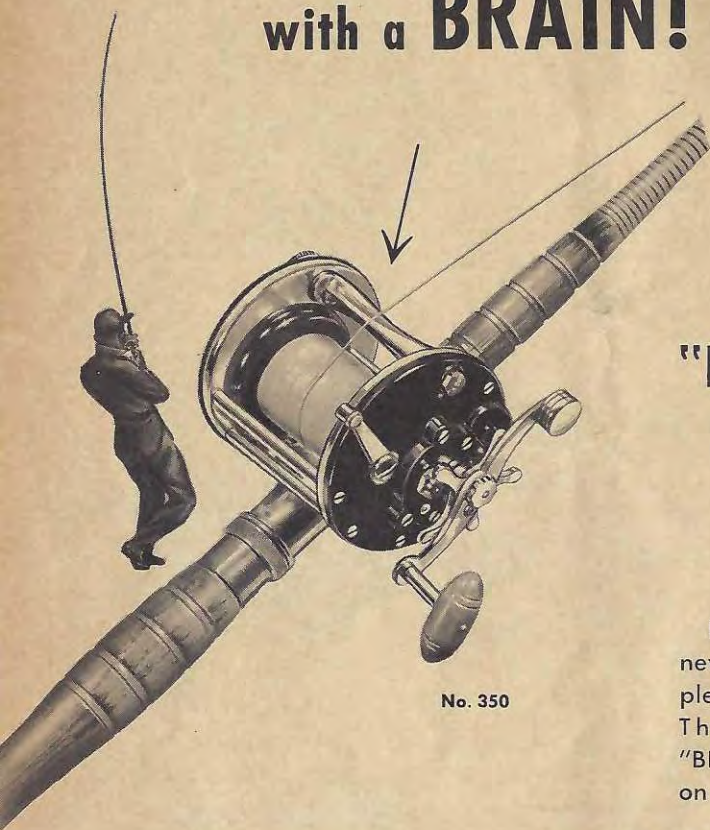
No. 25M

**ALL CAPACITIES SHOWN BASED ON
12 LB. MONOFILAMENT LINE**

We recommend using #9 linen line as backing on these reels, to help cushion the pressure developed by monofilament line retrieved under tension.

NOW! A LEVEL-WIND REEL

with a **BRAIN!**



the **NEW**
Penn
"LEVELINE"
AUTOMATIC
LEVEL-WIND

No. 350

Here's an entirely new patented principle of level-winding. The Spiral Bar or "BRAIN" works only on the retrieve.

**GREAT FOR DAY—TERRIFIC
FOR NIGHT FISHING!**

- **GEAR RATIO**
3 to 1
- **STAR DRAG**
- **HEAVILY**
CHROMIUM
PLATED

Now the fisherman can forget the line and concentrate on his fishing. No more worry about line bunching up on reel spool—because THE LINE IS LAID LEVEL EVERY TIME it is reeled in.

Enjoy longer, smoother casts and carefree retrieve!

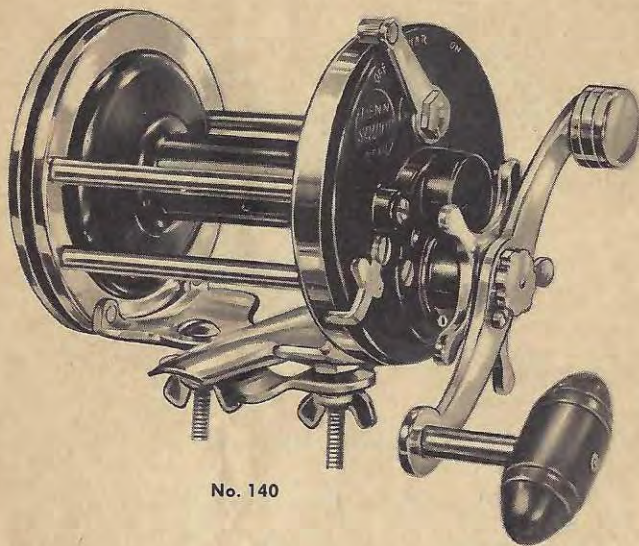
No. 350	Reinforced Plastic Spool,	List Price
	Cap. 200 yds., Wt. 19 oz.	\$20.00

No. 350M	with Chromed Brass Metal Spool,	
	Cap. 250 yds., Wt. 20 oz.	20.95

Not available in left hand models

PENN SQUIDDER

BALL BEARINGS—AIR BRAKE—CONVERTIBLE DRAG

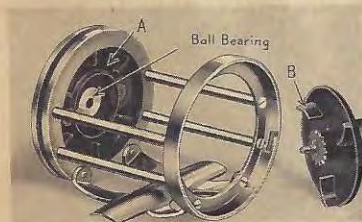


No. 140

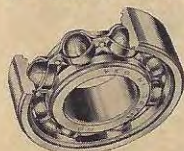
All Penn Squidder models feature:



One-Screw Take-Apart



Air Brake Fin Spools



Ball Bearings
3 $\frac{1}{3}$ to 1 Gear Ratio
Wide Frame
Convertible Star Drag

The Penn Squidder has the casting ability of a tournament reel, yet is built to take the punishment of hard fishing. All external metal parts are heavily chrome plated.

Light weight, rugged frame is 2 $\frac{3}{4}$ " in diameter. Spools for models 140 and 140M are 2 $\frac{7}{16}$ " wide; for models 145 and 145M spools are 2 $\frac{1}{8}$ " wide.

No. 140 2 Plastic Spools, Cap. 200 yds. List Price
No. 9, Star Drag, Wt. 17 $\frac{1}{2}$ oz. \$25.00

No. 145 2 Plastic Spools, Cap. 150 yds.
No. 9, Star Drag, Wt. 16 $\frac{1}{2}$ oz. 24.00

No. 140M 1 Metal Spool, Cap. 250 yds.
No. 9, Star Drag, Wt. 18 oz. 25.00

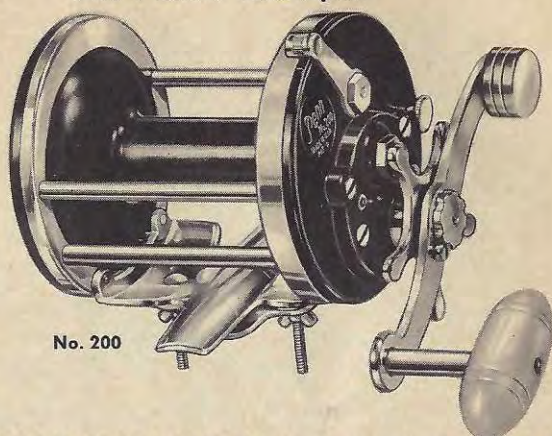
No. 145M 1 Metal Spool, Cap. 200 yds.
No. 9, Star Drag, Wt. 16 oz. 24.00

Left hand models extra..... \$ 2.00

For Surf Casting, Squidding, Pier and Bridge Fishing

PENN SURFMASTERS

with 1 Screw Take-Apart



No. 200

REINFORCED PLASTIC SPOOL MODELS (Each supplied with 2 Spools)

Model	Capacity	Wt. of Reel	Plate Diam.	Spool Width	List Price
No. 100	100 yd. No. 9	16 oz.	2¾"	1⅝"	\$13.00
No. 150	150 yd. No. 9	17½ oz.	2¾"	2⅛"	14.00
No. 200	200 yd. No. 9	18 oz.	2¾"	2⅞"	15.00
No. 250	250 yd. No. 9	20 oz.	3⅞"	2⅞"	16.00

Left hand models extra \$ 1.50

METAL SPOOL MODELS (Each supplied with 1 Spool)

					List Price
No. 100M	150 yd. No. 9	17 oz.	2¾"	1⅝"	\$12.75
No. 150M	200 yd. No. 9	18 oz.	2¾"	2⅛"	13.75
No. 200M	250 yd. No. 9	19½ oz.	2¾"	2⅞"	15.00
No. 250M	300 yd. No. 9	22½ oz.	3⅞"	2⅞"	16.00

Left hand models extra \$ 1.50

PENN SILVER BEACH

The "3 in 1" Quick Take-Apart Reel

1 PLASTIC — 1 METAL SPOOL

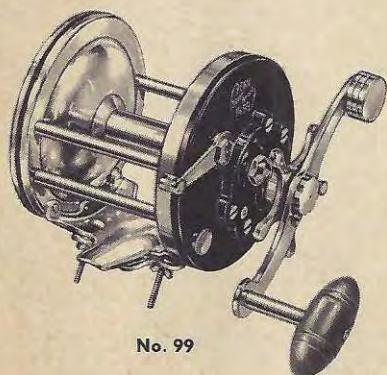
Combination surf, boat and trolling reel, equipped with one plastic and one metal spool. Penn Model 99 is an ideal all-around reel for casting, trolling and deep-sea fishing.

Casting Spool, Plastic, Cap. 200 yd. No. 9

Trolling Spool, Chromed Brass, Cap. 250 yd. No. 9

Weight of Reel—22½ oz.

Gear Ratio 3 to 1, Plate diameter 3⅞", Spool Width 2⅞".



No. 99

List Price

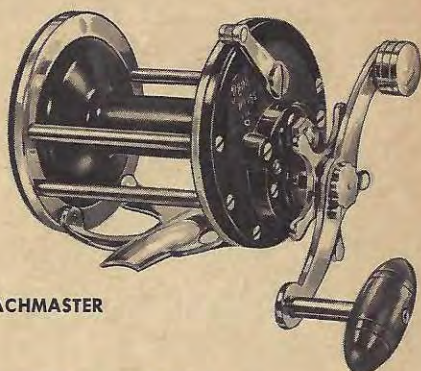
No. 99 with 2 Spools \$18.00

Left hand models extra \$ 1.50

PENN BEACHMASTER

Light Weight — Triple Multiplying

The Penn Beachmaster is small, light in weight and extremely popular for surf, top and bay fishing. Streamlined end plates are metal bound and beautifully engraved.



BEACHMASTER

REINFORCED PLASTIC SPOOL MODELS

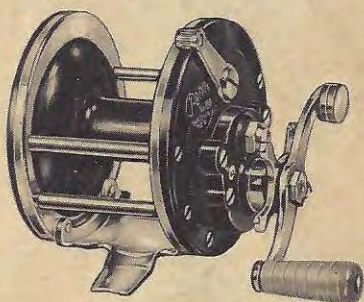
		Weight	List Price
No. 155	Star Drag, Lightweight Spool, 200 yd. No. 9	14 oz.	\$10.50
No. 160	Star Drag, Lightweight Spool, 150 yd. No. 9	13 oz.	9.50
No. 165	Free Spool, Lightweight Spool, 150 yd. No. 9	12½ oz.	7.50
Left hand models extra			\$ 1.50

METAL SPOOL MODELS

			List Price
No. 155M	Star Drag, Metal Spool, 250 yd. No. 9	16 oz.	\$11.50
No. 160M	Star Drag, Metal Spool, 200 yd. No. 9	14½ oz.	10.50
No. 165M	Free Spool, Metal Spool, 200 yd. No. 9	14 oz.	8.50
Left hand models extra			\$ 1.50

PENN BAYMASTER

These lightweight reels are ideally suited for light tackle fishing. All reels in this series are equipped with free spool action, sliding click and one-shot lubrication system. Metal bound and handsomely engraved end plates. All models have 2¾" plate diameter and spools 1½" in width.



BAYMASTER

100 YD. PLASTIC SPOOL MODELS

			List Price
No. 180F	Star Drag, 2¾" Reel Stand, Wt. 12 oz.		\$ 7.95
No. 180S	Star Drag, 2¼" Reel Stand, Wt. 12 oz.		7.95
No. 185F	Free Spool Action, 2¾" Reel Stand, Wt. 11½ oz.		6.50
No. 185S	Free Spool Action, 2¼" Reel Stand, Wt. 11½ oz.		6.50

150 YD. METAL SPOOL MODELS

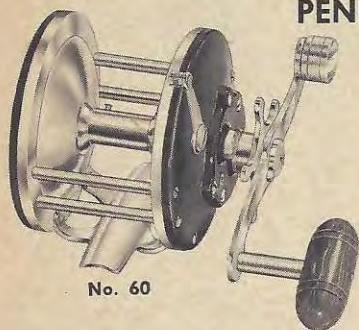
No. 180MF	Metal Spool, Star Drag, 2¾" Reel Stand	\$ 8.95
No. 180MS	Metal Spool, Star Drag, 2¼" Reel Stand	8.95
No. 185MF	Metal Spool, Free Spool, 2¾" Reel Stand	7.50
No. 185MS	Metal Spool, Free Spool, 2¼" Reel Stand	7.50
Left hand models extra		\$ 1.00

FOR DEEP-SEA BOTTOM FISHING AND TROLLING

Penn Long Beach reels comprise five models equipped with metal spools and Power Star Drag. The drag can be applied instantly without danger of stripping gears. Gear train consists of steel driving gear and stainless steel pinion gear. The Penn one-shot lubrication system safeguards perfect performance. Metal parts are heavily chromium plated and hand polished. The Super Long Beach models #66, 67 and 68 are equipped with rod clamps.

PENN LONG BEACH

250 and 300 yards

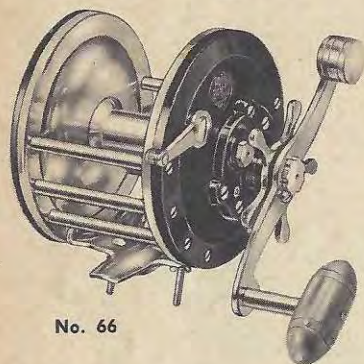


No. 60

	Line Cap. in Yards		Gear	Plate	Weight of	List Price
	No. 12	No. 15	Ratio	Diam.	Reel	
No. 60	190	150	2½ to 1	3¼"	19½ oz.	\$10.50
No. 65	225	175	2½ to 1	3¼"	20½ oz.	11.95
Left hand models extra.....						\$ 1.50

PENN SUPER LONG BEACH

400, 500 and 600 yards with reinforced metal spool



No. 66

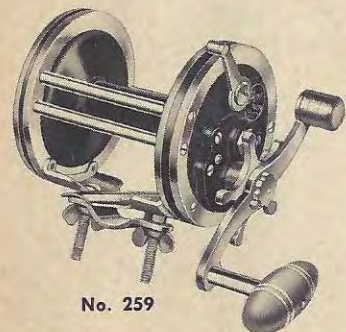
	Line Cap. in Yards			Plate	Weight of	List Price
	No. 12	No. 15	No. 18	Diameter	Reel	
No. 66	300	250	200	3⅝"	26 oz.	\$14.95
No. 67	375	300	250	3⅝"	27 oz.	17.00
No. 68	450	375	300	3⅝"	29 oz.	18.50
Left hand models extra.....						\$ 1.50

PENN LIVE-BAIT-CASTER

Outstanding Live Bait and General Utility Reel

SOLID FRAME CONSTRUCTION

Penn models 259-259M have been designed for the special needs of live bait casting. Reels have sturdy wide spools for smooth easy casting, spool control and fast retrieve. End plates are double metal bound and frames are heavily chromium plated.



No. 259

		Weight	List Price
No. 259	Plastic Spool, Cap. 250 yd.		
No. 9	.....	19 oz.	\$16.50
No. 259M	Metal Spool, Cap. 300 yd.		
No. 9	.....	22 oz.	17.50
Left hand models extra.....			\$ 1.50

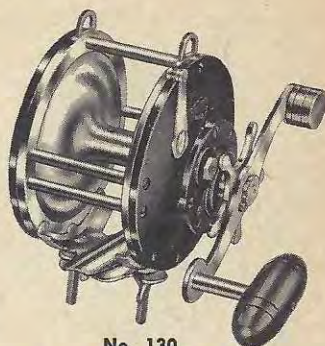
FOR TROLLING WITH WIRE AND LEAD CORE LINES

PENN SAILFISHER

With Solid, One-Piece Cast Spool
Gear Ratio 3 to 1
For Trolling and Bottom Fishing

An exceptionally strong reel with narrow, one-piece cast spool, fast retrieve and special features of ruggedness. The smooth acting star drag, extra heavy main and pinion gears, one-shot lubrication system, rod clamps, harness lugs and oversize torpedo handle merit the popularity these reels enjoy.

- No. 130** Solid Cast Spool, capacity 300 yd.
 No. 12, 250 yd. No. 15, 300 yd. 18 lb. lead
 core line. Weight 29 oz. Plate diameter List Price
 3 3/4". Gear ratio 3 to 1 **\$21.00**
 Left hand models extra **\$ 1.50**



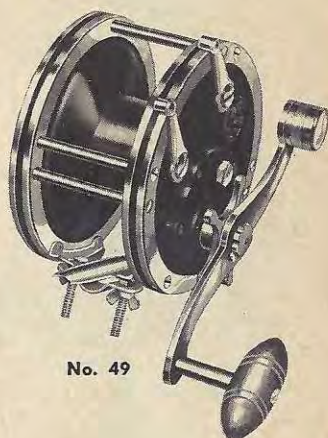
No. 130

PENN SUPER-MARINER

Gear Ratio 3 1/2 to 1

Penn Models 49 and 49M retrieve about 2 1/2 feet of line with each turn of the handle. Both models are equipped with the Convertible Star Drag and may be fished as a star drag or free spool reel. Gears are always in mesh and cannot strip. End plates are double metal bound. All exposed metal parts are polished and chromium plated.

- List Price
No. 49 Convertible Star Drag, Plastic Spool,
 Wt. 29 oz. **\$18.95**
No. 49M Convertible Star Drag, Metal Spool,
 Wt. 32 oz. **\$20.95**
 Left hand models extra **\$ 1.50**



No. 49

APPROXIMATE CAPACITIES

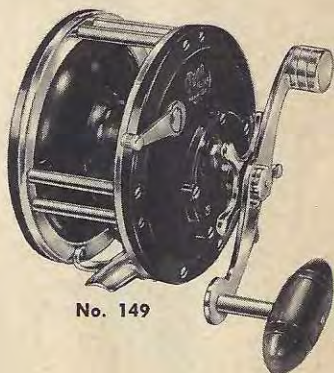
Model	No. 15 Linen	18 lb. Lead Core	.024" Monel
49	175 yds.	300 yds.	200 yds.
49M	220 yds.	360 yds.	245 yds.

PENN MARINER

Double Multiplying Gears

Penn models 149 and 149M are similar in general design to models 49 and 49M, but are without the convertible star drag feature. End plates have a chromium plated brass inside ring. Both models retrieve line quickly. All exposed metal parts are polished and chromium plated. Gear ratio 2.1 to 1.

- List Price
No. 149 Star Drag, 225 yd. Plastic Spool **\$15.00**
No. 149M As above, with Chromium Plated
 275 yd. Metal Spool **17.00**
 Left hand models extra **\$ 1.50**



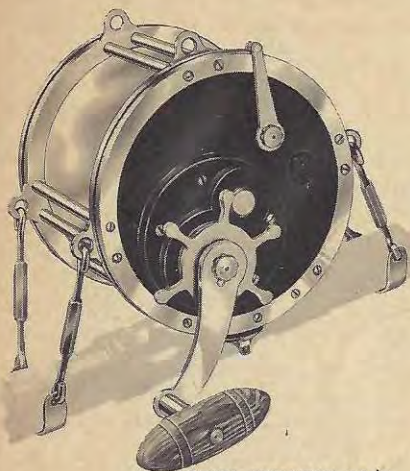
No. 149

PENN ANGLER

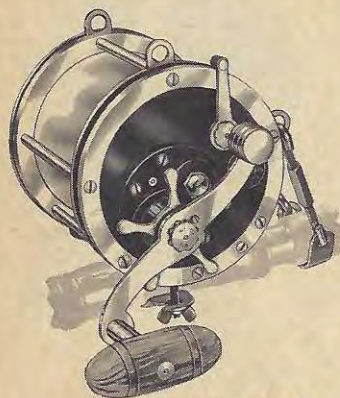
Triple multiplying, single action reel for use over or under reel seat. May be used right or left handed. (NOT ILLUSTRATED.)

- List Price
No. 249 Plastic Spool, 225 yds. No. 12,
 Wt. 18 oz **\$ 8.50**

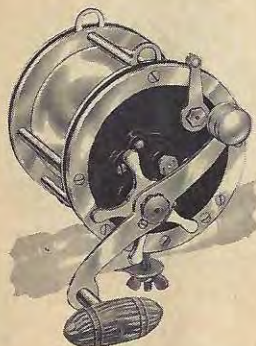
PENN SENATOR REELS



PENN SENATOR 14/0



PENN SENATOR 9/0



PENN SENATOR 4/0

Penn Senator reels were used in making nearly every big game fishing record, and continue to make fishing history. A 2536 pound White Pointer Shark, the largest fish ever taken on rod and reel, was caught by Alf Dean, Australia, on a Penn Senator No. 118—16/0 reel.

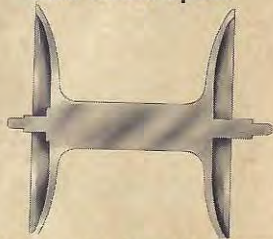
Experienced sportsmen and charter boat captains, who realize the importance of having only the finest tackle aboard, select Penn Reels for dependable performance, rugged construction and complete satisfaction.

One-piece cast metal spools, the strongest ever incorporated in fishing reels, are now standard components of Penn Senator reels in sizes 4/0, 6/0, 9/0, 10/0 and 12/0, and may be had for the 14/0 and 16/0 models on special request.

Powerful and smooth-acting star drag systems in all Senator reels help fight fish and protect tackle. Auto brake lining is used in the star drags of models Penn 6/0 to 16/0 for extra heavy service.

All Penn Senators have heavy steel driving gears and sturdy, stainless steel pinion gears. All models above 3/0 are equipped with harness lugs. Forward rod braces are supplied with models 9/0, 10/0 and 12/0 for extra rigidity. Spools of 10/0, 12/0, 14/0 and 16/0 run in aircraft-quality ball bearings for smooth action. All Senator models have comfortable torpedo handles, hand polished chromium plated external metal parts and one-shot lubrication system. Models No. 117—14/0 and No. 118—16/0, have double-truss frame construction to withstand the terrific torque demand of big game fishing. In addition, these large capacity Penn Senators are equipped with both rod and butt braces.

NEW! Solid One-Piece Cast Metal Spool



Penn Senator models from 4/0 to 12/0, now feature one-piece cast spools as standard equipment. (Optional in 14/0 and 16/0.) These superior strength spools are made from one-piece bronze castings, precision machined and heavily chromium plated, to provide corrosion protection and a satin smooth finish. Many large tuna and billfish have been taken on these spools without spool distortion or breakage resulting.

FOR BIG GAME FISHING

PRICES AND SPECIFICATIONS

No. of Reel	Size of Reel	Style of Trolling	Plate Diam.	Spool Width	Weight of Reel	List Price
No. 113	4/0	Light	3 $\frac{5}{8}$ "	2 $\frac{7}{8}$ "	30 oz.	\$27.50
No. 114	6/0	Light	4 $\frac{1}{8}$ "	2 $\frac{3}{4}$ "	48 oz.	37.95
No. 115	9/0	Medium	4 $\frac{5}{8}$ "	3 $\frac{1}{4}$ "	64 oz.	49.00
No. 116A	10/0	Med. Heavy	5 $\frac{3}{4}$ "	3 $\frac{1}{4}$ "	100 oz.	75.00
No. 116	12/0	Heavy	5 $\frac{3}{4}$ "	4"	110 oz.	85.00
*No. 117	14/0	Ex. Heavy	7"	4"	8 $\frac{1}{2}$ lb.	100.00
*No. 118	16/0	Ex. Heavy	7"	5"	9 lb.	125.00

*Prices of No. 117 and 118, with one-piece cast spools, 117S—125.00, 118S—150.00

Left Hand Models extra \$3.00 for 113, 114, 115

Left Hand Models extra \$5.00 for 116A, 116, 117, 118

LINE CAPACITY IN YARDS (Approximate)

	Lbs. Test	18-20	25-30	36-40	45-50	54	63	72-80	96-108	117-130
4/0	Linen	650	500	400	300+					
	Dacron	850	700	550	450					
	Nylon		600	500	400					
6/0	Linen		700	600	500	400				
	Dacron		850	750	700					
	Nylon		800		600	550	500			
9/0	Linen		1100		700	600		400		
	Dacron		1300		900			500		
	Nylon				840			450		
10/0	Linen				1050	900	700	600	400	350
	Dacron				1200			800	600	450
	Nylon							750	550	400
12/0	Linen							700	550	450
	Dacron							1000		500
	Nylon							900	700	
14/0	Linen							1200	800	700
	Dacron							1400		800
	Nylon									
16/0	Linen								900	800
	Dacron									900
	Nylon									

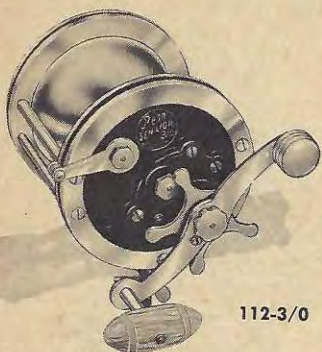
Load your reel hard when using linen.

Use less tension when loading nylon or dacron.

BALANCED TACKLE FOR GAME FISH TROLLING

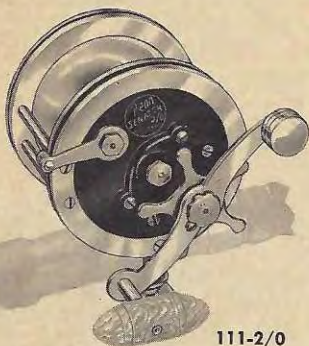
Size of Reel	Size of Linen Line	Weight of Tip	Weight of Fish
4/0	No. 15	10 oz.	Fish up to 100 lbs.
6/0	No. 18	12 oz.	Fish from 25 to 150 lbs.
9/0	No. 21	14 oz.	Fish from 50 to 250 lbs.
10/0	No. 24	16 oz.	Fish from 100 to 300 lbs.
12/0	No. 36	22 oz.	Fish from 300 lbs. up.
14/0	No. 54	30 oz.	All game fish of more than 400 lbs., when fishing under difficult conditions.
16/0	No. 54	30 oz.	All game fish of more than 400 lbs., when fishing in extremely deep water.

PENN SENATOR REELS FOR LIGHT-TACKLE TROLLING

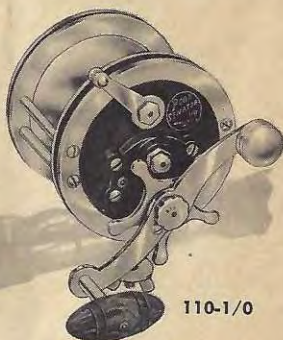


112-3/0

These Senator reels are available for 4-6, 5-9, and 6-12 light-tackle fishing. All models are equipped with our patented free spool clutch. Penn's famous smooth acting star drag gives a wide range of drag control and safeguards against breaking of light lines. Hard steel gears withstand years of severe usage. All models have double metal bound end plates. All models have attached rod clamps to assure safety of the reel under all conditions. The frames of all Penn Senator reels are polished and heavily chromium plated. Our patented one-shot lubrication system, combined with built-in oil reservoirs, safeguard perfect performance and assures smooth action of all moving parts.



111-2/0



110-1/0

PRICES AND SPECIFICATIONS

No. and Size of reel	Style of Tackle	Plate Diam.	Spool Width	Gear Ratio	Weight of Reel	List Price
No. 110-1/0	4-6	3 1/4"	1 1/8"	3 to 1	18 oz.	\$17.00
No. 111-2/0	5-9	3 1/4"	1 13/16"	2 1/4 to 1	22 oz.	19.50
No. 112-3/0	6-12	3 1/4"	2 7/16"	2 1/4 to 1	26 oz.	22.50
Left hand models extra \$1.50						

LINE CAPACITY IN YARDS (Approximate)

	Lbs. Test	10-12	18-20	25-30	36-40	45-50
1/0	Linen	500	325	225	175	125
	Dacron	600+	400	325	250	175
	Nylon	400	300	275	200	150
2/0	Linen	600	400	300	225	175
	Dacron	700	500	400	350	225
	Nylon		400	350	300	200
3/0	Linen	700	600	400	300	250
	Dacron	800	750	600	450	350
	Nylon		700	600	400	300

FOR GENERAL ALL-AROUND FISHING

Penn universal reels provide desirable features at moderate prices. All are suitable for light trolling, pier, surf, deep-sea and bay fishing. Strong gears, smooth free spool action. Penn one-shot lubrication system. All models have star drag except Nos. 78 and 79.

PENN DELMAR

200 and 250 yards

Universal Star Drag Reel

Ideal for fresh-water trolling
and stillfishing.

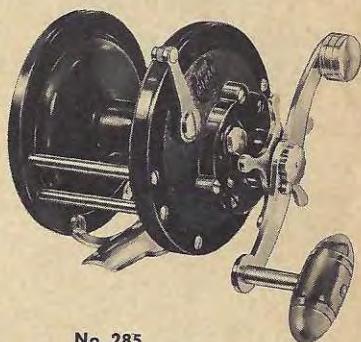
List Price

No. 285 200 yd. No. 9, Wt. 17 oz. \$7.50

No. 285M Metal Spool—250 yd. No. 9,
Wt. 18 oz. 8.50

Metal parts are chrome plated and hand polished.

Left hand models extra..... \$1.00



No. 285

PENN SEA-BOY

200 yards

Popular Star Drag Reel

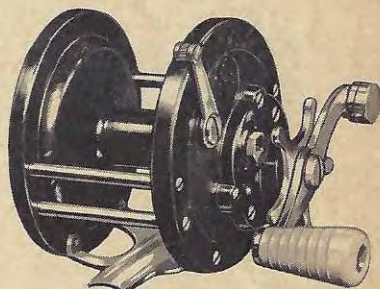
Ideal for fresh-water trolling and stillfishing.

List Price

No. 85 200 yd. No. 9, free spool action \$5.95

No. 85M Metal Spool—190 yds. No. 12 6.95

Left hand models extra..... \$1.00



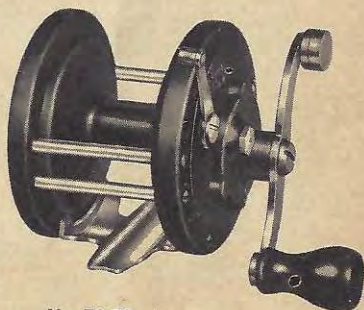
No. 85

PENN SEA MATE—SEA SCAMP

List Price

No. 78 Sea Scamp, 150 yd., Free Spool Action
Weight 10 oz. \$4.00

No. 79 Sea Mate, 200 yd., Free Spool Action,
Weight 11 oz. 4.50



No. 78-79

PENN ACCESSORIES



PENN REEL LUBE

These handy tubes contain a combination lubricant which is equally effective for gears, shafts, and ball bearings. All Penn Reels are equipped with self-sealing lubricating nipples, to easily and thoroughly lubricate your Penn Reel.

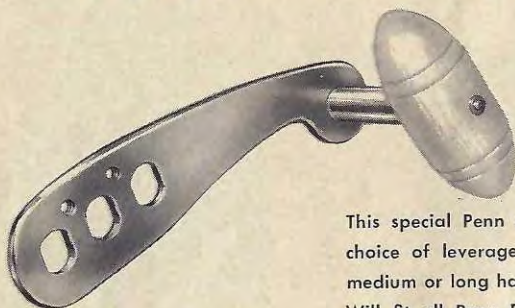
- | | | |
|---------|------------|----------------|
| No. 24 | Small Size | Price 15¢ each |
| No. 224 | Large Size | Price 25¢ each |

NEW! PENN TROPICAL LUBE

Particularly well suited for hot weather. Will not run or leak. Adheres to gears.

- | | | |
|---------|------------|----------------|
| No. 223 | Large Size | Price 25¢ each |
|---------|------------|----------------|

PENN CONVERTIBLE 3-IN-1 HANDLE



This special Penn accessory permits a choice of leverage, in either a short, medium or long handle for Penn Reels. Will fit all Penn Reels up to and including the 4/0 Senator Reel.

- | | | |
|----------------|--------------------------|-------------------|
| Part No. 24-55 | with 1 7/8" Torpedo knob | Price \$2.00 each |
| Part No. 24-56 | with 2 1/2" Torpedo knob | Price \$2.25 each |

PENN REEL PARTS KITS

Ideal for dealers and reel repairmen.

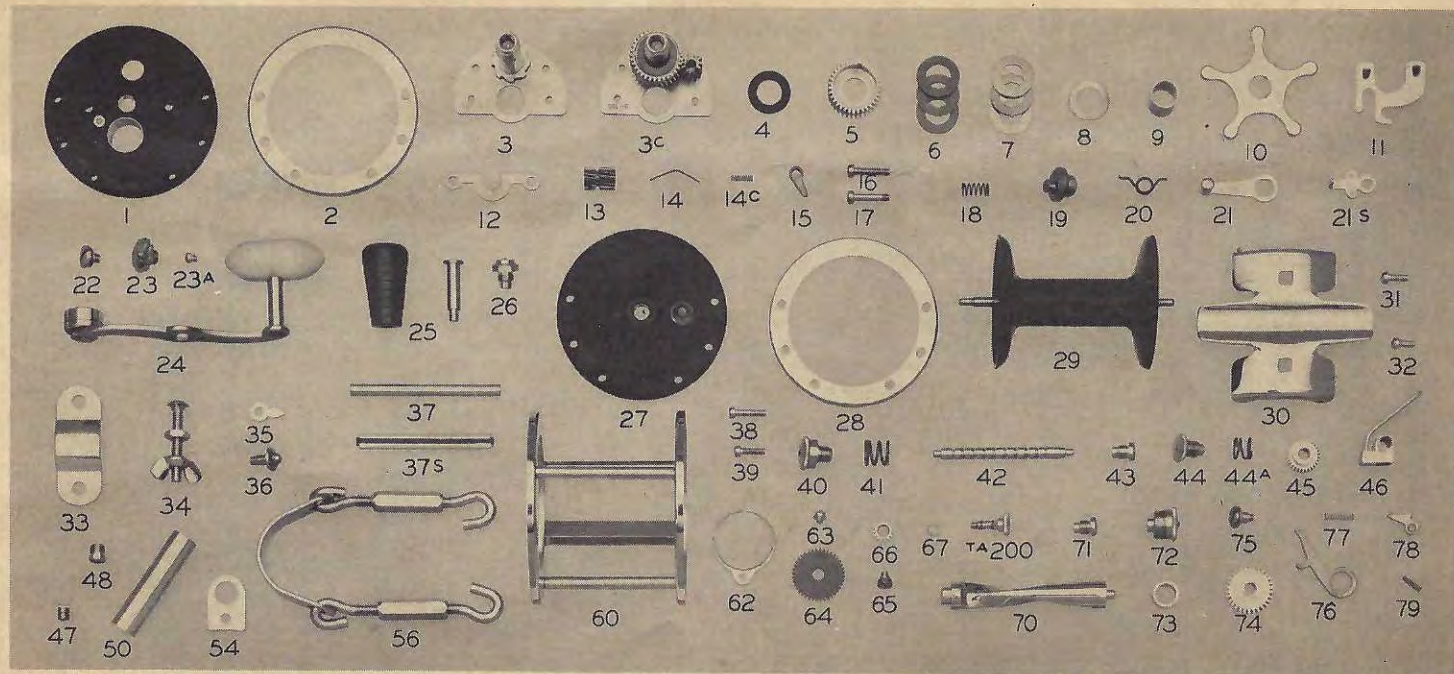
PARTS KIT NO. 6 Compartmented plastic box contains an assortment of small parts for all Penn Reels, except Senator reels sizes 6/0 to 16/0, and models 9, 109, 209. Each \$20.00

PARTS KIT NO. 4 For Penn Level-Wind models. Compartmented plastic box contains a special assortment of parts for Penn models No. 9, 109 and 209 reels
Each \$20.00



ILLUSTRATION OF PARTS FOR PENN REELS

COMPLETE LIST ON PAGES 20 TO 28. SEE INSTRUCTIONS "HOW TO ORDER PARTS" ON PAGE 29



PENN REEL PARTS No. 1 TO No. 4

PARTS ILLUSTRATION ON PAGE 19. WHEN PART NUMBERS IN TABLE ARE MARKED WITH SYMBOLS (*, ♠, ♥, ☐, ETC.), SEE FOOTNOTES PG. 29

Reel No.	No. 1 Right Side Plate		No. 2 Right Side Ring		No. 3 Gear Bridge with Sleeve		No. 3C Bridge Comp. with Pinion		No. 4 Red Fibre Washer	
	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each
9	1-9	.90	2-109	.50	3-9	1.00	3C-9	2.40	4-155	.03
25	1-25	1.00	2-155	.50	3-155	1.00	3C-155	2.40	4-155	.03
26	1-26	1.00	2-155	.50	3-155	1.00	3C-155	2.40	4-155	.03
27	1-27	1.00	2-155	.50	3-155	1.00	3C-155	2.40	4-155	.03
49	1-49	1.00	2-49★	1.00	3-49	1.00	3C-49	2.50	4-60	.03
60	1-60	.75	2-60	.60	3-60	1.00	3C-60	2.20	4-60	.03
65	1-65	.75	2-60	.60	3-60	1.00	3C-60	2.20	4-60	.03
66	1-66	.90	2-66	.75	3-66	1.00	3C-66	2.40	4-60	.03
67	1-67	.90	2-66	.75	3-66	1.00	3C-66	2.40	4-60	.03
68	1-68	.90	2-66	.75	3-66	1.00	3C-66	2.40	4-60	.03
78	1-78	.75	....	..	3-78	.25	....	..	....	..
79	1-79	.75	....	..	3-78	.25	....	..	....	..
85	1-85	.75	....	..	3-85	1.00	3C-85	2.20	4-60	.03
99	1-99	1.50	2-99	1.25	3-99	1.00	3C-99	2.40	4-60	.03
100	1-100	1.50	2-200	1.25	3-200	1.00	3C-200	2.40	4-60	.03
109	1-109	.90	2-109	.50	3-109	.80	3C-109	2.20	4-155	.03
110	1-110	.75	2-110★	.60	3-99	1.00	3C-99	2.40	4-60	.03
111	1-111	.75	2-111★	.60	3-66	1.00	3C-66	2.40	4-60	.03
112	1-112	.75	2-111★	.60	3-66	1.00	3C-66	2.40	4-60	.03
113	1-113	1.00	2-113★	1.00	3-113	1.00	3C-113	2.50	4-60	.03
114	1-114	1.50	2-114★	1.25	3-114	2.00	3C-114	4.75	4-114	.04
115	1-115	2.50	2-115★	1.50	3-115	2.25	3C-115	5.50	4-115	.04
116A	1-116A	3.00	2-116★	2.00	3-116	2.50	3C-116	8.25	4-116	.04
116	1-116	3.00	2-116★	2.00	3-116	2.50	3C-116	8.25	4-116	.04
117	1-117	4.00	2-117★	2.40	3-117	4.00	3C-117	10.00	4-117	.04
118	1-118	4.00	2-117★	2.40	3-117	4.00	3C-117	10.00	4-117	.04
130	1-130	1.00	2-130	1.00	3-130	1.25	3C-130	3.00	4-130	.03
140	1-140	1.50	2-200	1.25	3-200	1.00	3C-140	2.40	4-60	.03
145	1-145	1.50	2-200	1.25	3-200	1.00	3C-140	2.40	4-60	.03
149	1-149	1.00	2-49	1.00	3-149	1.00	3C-149	2.25	4-60	.03
150	1-150	1.50	2-200	1.25	3-200	1.00	3C-200	2.40	4-60	.03
155	1-155	.75	2-155	.50	3-155	1.00	3C-155	2.40	4-155	.03
160	1-160	.75	2-155	.50	3-155	1.00	3C-155	2.40	4-155	.03
165	1-165	.75	2-155	.50	3-165	.60	3C-165	1.60	....	..
180	1-180	.75	2-155	.50	3-155	1.00	3C-155	2.40	4-155	.03
185	1-185	.75	2-155	.50	3-165	.60	3C-165	1.60	....	..
190	1-190	.75	....	..	3-165	.60	3C-165	1.60	....	..
200	1-200	1.50	2-200	1.25	3-200	1.00	3C-200	2.40	4-60	.03
209	1-209	1.00	2-209	.60	3-155	1.00	3C-155	2.40	4-155	.03
249	1-249	1.00	....	..	....	..	....	..	....	..
250	1-250	1.50	2-250	1.25	3-99	1.00	3C-99	2.40	4-60	.03
259	1-259	.75	2-110★	.60	3-99	1.00	3C-99	2.40	4-60	.03
285	1-285	.75	....	..	3-60	1.00	3C-60	2.20	4-60	.03
350	1-350	1.15	2-350	.75	3-155	1.00	3C-155	2.40	4-155	.03
349	1-349#	1.25	2-349★	1.00	3-349	1.75	3C-349	3.75	4-349	.03
349H	1-349H#1.25		2-349★	1.00	3-349H	1.75	3C-349H	3.75	4-349	.03

PENN REEL PARTS No. 5 TO No. 10

SEE FOOTNOTES PG. 29

No. 5 Main Gear		No. 6 Drag Washer		No. 7 Metal Disk Set		No. 8 Tension Spring		No. 9 Spacing Sleeve		No. 10 Drag Star	
Part No.	Price Each	Part No.	Price Each	Part No.	Price Per Set	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each
5-109	.50	6-155	.03	7-155	.18	8-60	.10	9-60	.15	10-180	.50
5-155	.50	6-155	.03	7-155	.18	8-60	.10	9-60	.15	10-60	.50
5-155	.50	6-155	.03	7-155	.18	8-60	.10	9-60	.15	10-60	.50
5-155	.50	6-155	.03	7-155	.18	8-60	.10	9-60	.15	10-60	.50
5-49	.50	6-49♥	.04	7-49	.30	8-60	.10	9-60	.15	10-49	.75
5-60	.50	6-60	.03	7-60	.18	8-60	.10	9-60	.15	10-60	.50
5-60	.50	6-60	.03	7-60	.18	8-60	.10	9-60	.15	10-60	.50
5-66	.50	6-60♥	.03	7-66	.30	8-60	.10	9-66□	.20	10-66	.75
5-66	.50	6-60♥	.03	7-66	.30	8-60	.10	9-66□	.20	10-66	.75
5-66	.50	6-60♥	.03	7-66	.30	8-60	.10	9-66□	.20	10-66	.75
5-78	.50	....	..	....	..	....	..	....	..	....	..
5-78	.50	....	..	....	..	....	..	....	..	....	..
5-60	.50	6-60	.03	7-60	.18	8-60	.10	9-60	.15	10-60	.50
5-60	.50	6-60	.03	7-60	.18	8-60	.10	9-60	.15	10-60	.50
5-60	.50	6-60	.03	7-60	.18	8-60	.10	9-60	.15	10-60	.50
5-109	.50	6-155	.03	7-155	.18	8-60	.10	9-60	.15	10-180	.50
5-60	.50	6-60	.03	7-60	.18	8-60	.10	9-60	.15	10-60	.50
5-66	.50	6-60♥	.03	7-66	.30	8-60	.10	9-66□	.20	10-60	.50
5-66	.50	6-60♥	.03	7-66	.30	8-60	.10	9-66□	.20	10-60	.50
5-66	.50	6-60♥	.03	7-66	.30	8-60	.10	9-66□	.20	10-66	.75
5-114	1.00	6-114	.12	7-114	.30	8-114	.20	9-114♠	.40	10-114	1.00
5-115	1.25	6-115	.16	7-115	.40	8-114	.20	9-115♠	.40	10-114	1.00
5-116	2.50	6-116	.16	7-116	.60	8-116	.20	....	..	10-116	1.50
5-116	2.50	6-116	.16	7-116	.60	8-116	.20	....	..	10-116	1.50
5-117	2.50	6-117	.20	7-117	.90	8-117	.25	....	..	10-117	1.50
5-117	2.50	6-117	.20	7-117	.90	8-117	.25	....	..	10-117	1.50
5-130	.70	6-130♥	.04	7-130	.30	8-130	.10	9-130	.25	10-130	.75
5-60	.50	6-60	.03	7-60	.18	8-60	.10	9-60	.15	10-60	.50
5-60	.50	6-60	.03	7-60	.18	8-60	.10	9-60	.15	10-60	.50
5-149	.50	6-60♥	.03	7-60	.18	8-60	.10	9-60	.15	10-49	.75
5-60	.50	6-60	.03	7-60	.18	8-60	.10	9-60	.15	10-60	.50
5-155	.50	6-155	.03	7-155	.18	8-60	.10	9-60	.15	10-60	.50
5-155	.50	6-155	.03	7-155	.18	8-60	.10	9-60	.15	10-60	.50
5-165	.70	....	..	....	..	....	..	....	..	....	..
5-155	.50	6-155	.03	7-155	.18	8-60	.10	9-60	.15	10-180	.50
5-165	.70	....	..	....	..	....	..	....	..	....	..
5-165	.70	....	..	....	..	....	..	....	..	....	..
5-60	.50	6-60	.03	7-60	.18	8-60	.10	9-60	.15	10-60	.50
5-155	.50	6-155	.03	7-155	.18	8-60	.10	9-60	.15	10-60	.50
5-249	.50	....	..	....	..	....	..	....	..	....	..
5-60	.50	6-60	.03	7-60	.18	8-60	.10	9-60	.15	10-60	.50
5-60	.50	6-60	.03	7-60	.18	8-60	.10	9-60	.15	10-60	.50
5-60	.50	6-60	.03	7-60	.18	8-60	.10	9-60	.15	10-60	.50
5-155	.50	6-155	.03	7-155	.18	8-60	.10	9-60	.15	10-60	.50
5-155	.50	6-155	.03	7-155	.18	8-60	.10	9-60	.15	10-60	.50
5-349	1.00	6-349	.12	7-349	.50	8-349	.15	9-349	.50	10-349	1.00
5-349H	1.00	6-349H	.12	7-349H	.50	8-349	.15	9-349	.50	10-349	1.00

PENN REEL PARTS No. 11 TO No. 15

SEE FOOTNOTES PG. 29

Reel No.	No. 11 Eccentric Jack		No. 12 Pinion Yoke		No. 13 Pinion Gear		No. 14 $\diamond$ Dog Spring		No. 15 Dog	
	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each
9	11-9	.20	12-9	.16	13-9	.50	14-9	.03	15-9	.10
25	11-155	.20	12-155	.16	13-155	.50	14-155	.03	15-155	.10
26	11-155	.20	12-155	.16	13-155	.50	14-155	.03	15-155	.10
27	11-155	.20	12-155	.16	13-155	.50	14-155	.03	15-155	.10
49	11-49	.20	12-60	.16	13-49	.60	14-60	.03	15-49	.20
60	11-60	.20	12-60	.16	13-60	.50	14-99	.03	15-99	.10
65	11-60	.20	12-60	.16	13-60	.50	14-99	.03	15-99	.10
66	11-66	.20	12-60	.16	13-66	.60	14-99	.03	15-99	.10
67	11-66	.20	12-60	.16	13-66	.60	14-99	.03	15-99	.10
68	11-66	.20	12-60	.16	13-66	.60	14-99	.03	15-99	.10
78	11-78	.20	12-60	.16	13-60	.50	.....	..	.....	..
79	11-60	.20	12-60	.16	13-60	.50	.....	..	.....	..
85	11-60	.20	12-60	.16	13-60	.50	14-60	.03	15-85	.10
99	11-99	.20	12-99	.16	13-99	.60	14-99	.03	15-99	.10
100	11-200	.20	12-155	.16	13-155	.50	14-155	.03	15-200	.10
109	.....	..	.....	..	13-109	.50	14-109	.03	15-109	.10
110	11-110	.20	12-110	.16	13-99	.60	14-60	.03	15-60	.10
111	11-60	.20	12-60	.16	13-66	.60	14-99	.03	15-99	.10
112	11-60	.20	12-60	.16	13-66	.60	14-99	.03	15-99	.10
113	11-130 $\square$	.20	12-113	.20	13-113	.50	14-99	.03	15-99	.10
114	11-114	.60	12-114	.30	13-114	.80	14-114	.04	15-114	.16
115	11-115	.60	12-114	.30	13-114	.80	14-116	.04	15-115	.20
116A	11-116	.80	12-116	.50	13-116	1.50	14-116	.04	15-116	.30
116	11-116	.80	12-116	.50	13-116	1.50	14-116	.04	15-116	.30
117	11-116	.80	12-116	.50	13-117	1.50	14-117	.05	15-117	.30
118	11-116	.80	12-116	.50	13-117	1.50	14-117	.05	15-117	.30
130	11-130	.20	12-60	.16	13-130	.60	14-130	.03	15-130	.10
140	11-200	.20	12-155	.16	13-140	.60	14-140	.03	15-140	.20
145	11-200	.20	12-155	.16	13-140	.60	14-140	.03	15-140	.20
149	11-49	.20	12-113	.16	13-149	.50	14-60	.03	15-149	.10
150	11-200	.20	12-155	.16	13-155	.50	14-155	.03	15-200	.10
155	11-155	.20	12-155	.16	13-155	.50	14-155	.03	15-155	.10
160	11-155	.20	12-155	.16	13-155	.50	14-155	.03	15-155	.10
165	11-155	.20	12-155	.16	13-155	.50	.....	..	.....	..
180	11-155	.20	12-155	.16	13-155	.50	14-155	.03	15-155	.10
185	11-155	.20	12-155	.16	13-155	.50	.....	..	.....	..
190	11-155	.20	12-155	.16	13-155	.50	.....	..	.....	..
200	11-155	.20	12-155	.16	13-155	.50	14-155	.03	15-200	.10
209	11-155	.20	12-155	.16	13-155	.50	14-99	.03	15-209	.10
249	.....	..	.....	..	13-249	.50	.....	..	.....	..
250	11-99	.20	12-99	.16	13-99	.60	14-60	.03	15-60	.10
259	11-110	.20	12-110	.16	13-99	.60	14-60	.03	15-60	.10
285	11-60	.20	12-60	.16	13-60	.50	14-60	.03	15-60	.10
350	11-155	.20	12-155	.16	13-155	.50	14-99	.03	15-209	.10
349	11-349	.25	12-349	.25	13-349	.75	14-130	.03	15-349	.35
349H	11-349	.25	12-349H	.25	13-349H	.75	14-130	.03	15-349	.35

PENN REEL PARTS No. 16 TO No. 21

SEE FOOTNOTES PG. 29

[illegible]

PENN REEL PARTS No. 22 TO No. 25

SEE FOOTNOTES PG. 29

Reel No.	No. 22 Eccentric Screw		No. 23 Handle Screw		No. 23A Handle Lock Screw		No. 24 Handle Complete		No. 25 Knob, Rivet and Oiler	
	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Per Set
9	22-109	.04	23-60	.25	23A-60	.02	24-160	1.20	25-160	.60
25	22-60	.04	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
26	22-60	.04	23-60	.25	23A-60	.02	24-160	1.20	25-160	.60
27	22-60	.04	23-60	.25	23A-60	.02	24-160	1.20	25-160	.60
49	22-60	.04	23-60	.25	23A-60	.02	24-49	1.50	25-49	.75
60	22-60	.04	23-60	.25	23A-60	.02	24-66	1.20	25-66	.60
65	22-60	.04	23-60	.25	23A-60	.02	24-66	1.20	25-66	.60
66	22-60	.04	23-60	.25	23A-60	.02	24-66	1.20	25-66	.60
67	22-60	.04	23-60	.25	23A-60	.02	24-66	1.20	25-66	.60
68	22-60	.04	23-60	.25	23A-60	.02	24-66	1.20	25-66	.60
78	22-60	.04	23-85	.15	.....	..	24-85	.80	25-85	.25
79	22-60	.04	23-85	.15	.....	..	24-85	.80	25-85	.25
85	22-60	.04	23-85	.15	.....	..	24-85	.80	25-85	.25
99	22-99	.20	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
100	22-99	.20	23-60	.25	23A-60	.02	24-160	1.20	25-160	.60
109	22-109	.04	23-180	.25	.....	..	24-109	1.00	25-109	.50
110	22-99	.20	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
111	22-99	.20	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
112	22-99	.20	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
113	22-99	.20	23-60	.25	23A-60	.02	24-66	1.20	25-66	.60
114	23-60	.25	23-116	.45	23A-60	.02	24-114	2.20	25-114	1.30
115	23-60	.25	23-116	.45	23A-60	.02	24-115	2.75	25-115	1.80
116A	23-60	.25	23-116	.45	23A-60	.02	24-116	3.00	25-116	1.80
116	23-60	.25	23-116	.45	23A-60	.02	24-116	3.00	25-116	1.80
117	23-60	.25	23-116	.45	23A-60	.02	24-117	4.00	25-117	2.50
118	23-60	.25	23-116	.45	23A-60	.02	24-117	4.00	25-117	2.50
130	22-60	.04	23-60	.25	23A-60	.02	24-49	1.50	25-49	.75
140	22-99△	.20	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
145	22-99△	.20	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
149	22-60	.04	23-60	.25	23A-60	.02	24-49	1.50	25-49	.75
150	22-99	.20	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
155	22-60	.04	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
160	22-60	.04	23-60	.25	23A-60	.02	24-160	1.20	25-160	.60
165	22-60	.04	23-60	.25	23A-60	.02	24-160	1.20	25-160	.60
180	22-60	.04	23-180	.25	.....	..	24-180	1.00	25-180	.25
185	22-60	.04	23-180	.25	.....	..	24-180	1.00	25-180	.25
190	22-60	.04	23-85	.15	.....	..	24-180	1.00	25-180	.25
200	22-99	.20	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
209	22-60	.04	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
249	.....	..	23-60	.25	23A-60	.02	24-249	1.20	25-249	.25
250	22-99	.20	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
259	22-99	.20	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
285	22-60	.04	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
350	22-99	.20	23-60	.25	23A-60	.02	24-155	1.20	25-155	.60
349	22-60	.04	23-114	.45	23A-60	.02	24-349	2.00	25-49	.75
349H	22-60	.04	23-114	.45	23A-60	.02	24-349H	2.25	25-114	1.30

PENN REEL PARTS No. 26 TO No. 30

SEE FOOTNOTES PG 29

No. 26 Right Side Bearing		No. 27 Left Side Plate		No. 28 Left Side Ring		No. 29 Plastic Spool		No. 29M Metal Spool		No. 30 Reel Stand	
Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each
26-9	.30	27-9	1.15	28-109	.50	29-9	1.60	29M-9	2.40	30-109	1.20
26-155	.30	27-25	1.00	2-155	.50	29-25	1.50	29M-25	2.25	30-155	1.20
26-155	.30	27-26	1.00	2-155	.50	29-26	1.50	29M-26	2.20	30-65	1.20
26-155	.30	27-27	1.00	2-155	.50	29-27	1.50	29M-27	2.20	30-180	1.20
26-60	.30	27-49	1.00	28-49★	1.00	29-49	1.50	29M-49	3.00	30-49	2.20
26-60	.30	27-60	.75	28-60	.60	.....	...	29M-60	2.20	30-60	1.20
26-60	.30	27-60	.75	28-60	.60	.....	...	29M-65	2.40	30-65	1.20
26-60	.30	27-66	.90	2-66	.75	.....	...	29M-66	2.50	30-66	2.20
26-60	.30	27-66	.90	2-66	.75	.....	...	29M-67	2.50	30-200	2.20
26-60	.30	27-66	.90	2-66	.75	.....	...	29M-68	2.50	30-68	2.20
26-60	.30	27-78	.75	.....	..	29-78	1.20	.....	..	30-180	1.20
26-60	.30	27-85	.75	.....	..	29-85	1.20	.....	..	30-85	.80
26-60	.30	27-85	.75	.....	..	29-85	1.20	29M-85	2.00	30-85	.80
26-155	.30	27-99	.75	28-99★	.60	29-99	1.20	29M-99	2.30	30-99	2.20
26-155	.30	27-200	.75	2-155	.50	29-100	1.20	29M-100	2.20	30-49	2.20
26-109	.30	27-109	.75	28-109	.50	29-109	1.20	29M-109	2.20	30-109	1.20
26-155	.30	27-110	.75	28-110★	.60	.....	...	29M-110	2.00	30-49	2.20
26-60	.30	27-111	.75	2-111★	.60	.....	...	29M-60	2.20	30-111	2.50
26-60	.30	27-111	.75	2-111★	.60	.....	...	29M-112	2.50	30-112	2.50
26-60	.30	27-113	1.00	2-113★	1.00	.....	...	29M-67S	6.00	30-113	2.50
26-114	.50	27-114	1.40	2-114★	1.25	.....	...	29M-114S	8.50	30-114	3.50
26-114	.50	27-115	2.40	28-115★	1.50	.....	...	29M-115S	10.00	30-115	3.50
26-116+2.50	2.50	27-116	2.80	28-116★	2.00	.....	...	29M-116AS	14.50	30-116A	4.50
26-116+2.50	2.50	27-116	2.80	28-116★	2.00	.....	...	29M-116S	15.00	30-116	4.50
26-117	3.00	27-117	3.60	2-117★	2.40	.....	...	29M-117	17.00□	30-117	5.50
26-117	3.00	27-117	3.60	2-117★	2.40	.....	...	29M-118	20.00□	30-118	5.50
26-60	.30	27-130	1.00	2-130	1.00	.....	...	29M-130S	5.50	30-130	2.50
26-140	2.50	27-140	.75	28-140★	.50	29-140	1.50	29M-140	3.00	30-200	2.20
26-140	2.50	27-140	.75	28-140★	.50	29-145	1.50	29M-145	2.50	30-66	2.20
26-60	.30	27-149	1.00	2-49	1.00	29-49	1.50	29M-49	3.00	30-149	1.20
26-155	.30	27-200	.75	2-155	.50	29-150	1.20	29M-150	2.20	30-66	2.20
26-155	.30	27-155	.75	2-155	.50	29-200	1.20	29M-200	2.25	30-155	1.20
26-155	.30	27-155	.75	2-155	.50	29-150	1.20	29M-150	2.20	30-65	1.20
26-155	.30	27-155	.75	2-155	.50	29-150	1.20	29M-150	2.20	30-65	1.20
26-155	.30	27-155	.75	2-155	.50	29-100	1.20	29M-100	2.20	30-180	1.20
26-155	.30	27-155	.75	2-155	.50	29-100	1.20	29M-100	2.20	30-180	1.20
26-155	.30	27-190	.75	.....	..	29-100	1.20	29M-100	2.20	30-180	1.20
26-155	.30	27-200	.75	2-155	.50	29-200	1.20	29M-200	2.25	30-200	2.20
26-155	.30	27-209	1.15	28-209	.60	29-209	1.80	29M-209	2.50	30-66	2.20
26-249	.30	27-249	1.00	.....	..	29-249	1.50	.....	..	30-149	1.20
26-155	.30	27-250	.75	28-250	.60	29-250	1.20	29M-250	2.40	30-200	2.20
26-155	.30	27-259	.75	2-110★	.60	29-250	1.20	29M-250	2.40	30-200	2.20
26-60	.30	27-85	.75	.....	..	29-85	1.20	29M-60	2.20	30-60	1.20
26-155	.30	27-350	1.15	28-350	.75	29-350	1.50	29M-350	2.25	30-200	2.20
26-349	.30	27-349	1.25	28-349★	1.00	.....	...	29M-349	7.00	30-349	3.00
26-349	.30	27-349	1.25	28-349★	1.00	.....	...	29M-349	7.00	30-349	3.00

PENN REEL PARTS No. 31 TO No. 35

SEE FOOTNOTES PG. 29

Reel No.	No. 31 R. S. Stand Screw		No. 32 L. S. Stand Screw		No. 33 Rod Clamp		No. 34 Clamp Screw with Nuts		No. 35 Click Tongue	
	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each
9	31-109	.03	31-109	.03	.....	..	.....	..	35-155	.10
25	31-155	.03	32-155	.03	.....	..	.....	..	35-155	.10
26	31-155	.03	32-155	.03	.....	..	.....	..	35-155	.10
27	31-155	.03	32-155	.03	.....	..	.....	..	35-155	.10
49	31-110	.03	31-110	.03	33-49	.30	34-49	.20	35-60	.10
60	31-60	.03	31-155	.03	.....	..	.....	..	35-60	.10
65	31-60	.03	31-155	.03	.....	..	.....	..	35-60	.10
66	31-60	.03	31-155	.03	33-200	.30	34-200	.20	35-60	.10
67	31-60	.03	31-155	.03	33-200	.30	34-200	.20	35-60	.10
68	31-60	.03	31-155	.03	33-200	.30	34-200	.20	35-60	.10
78	31-149	.03	31-285	.03	.....	..	.....	..	35-60	.10
79	31-285	.03	32-155	.03	.....	..	.....	..	35-60	.10
85	31-285	.03	32-155	.03	.....	..	.....	..	35-60	.10
99	31-200	.03	32-110	.03	33-200	.30	34-200	.20	35-60	.10
100	31-200	.03	31-285	.03	33-49	.30	34-49	.20	35-155	.10
109	31-109	.03	31-109	.03	.....	..	.....	..	35-155	.10
110	31-110	.03	32-110	.03	33-49	.30	34-49	.20	35-60	.10
111	31-110	.03	32-110	.03	33-200	.30	34-49	.20	35-60	.10
112	31-110	.03	32-110	.03	33-200	.30	34-200	.20	35-60	.10
113	31-110	.03	32-110	.03	33-200	.30	34-200	.20	35-60	.10
114	31-114	.06	32-114	.06	33-114	.40	34-200	.20	35-114	.16
115	31-115	.06	32-115	.06	33-114	.40	34-200	.20	35-115	.16
116A	31-115	.06	32-115	.06	33-116	.50	34-116	.40	35-115	.16
116	31-115	.06	32-115	.06	33-116	.50	34-116	.40	35-115	.16
117	31-115	.06	31-115	.06	33-117	.60	34-116	.40	35-115	.16
118	31-115	.06	31-115	.06	33-117	.60	34-116	.40	35-115	.16
130	31-155	.03	31-285	.03	33-200	.30	34-49	.20	35-60	.10
140	31-200	.03	31-110	.03	33-200	.30	34-200	.20	35-155	.10
145	31-200	.03	31-110	.03	33-200	.30	34-200	.20	35-155	.10
149	31-149	.03	31-149	.03	.....	..	.....	..	35-60	.10
150	31-200	.03	31-285	.03	33-200	.30	34-200	.20	35-155	.10
155	31-155	.03	32-155	.03	.....	..	.....	..	35-155	.10
160	31-155	.03	32-155	.03	.....	..	.....	..	35-155	.10
165	31-155	.03	32-155	.03	.....	..	.....	..	35-155	.10
180	31-285	.03	32-155	.03	.....	..	.....	..	35-155	.10
185	31-285	.03	32-155	.03	.....	..	.....	..	35-155	.10
190	31-285	.03	32-155	.03	.....	..	.....	..	35-155	.10
200	31-200	.03	31-285	.03	33-200	.30	34-200	.20	35-155	.10
209	31-285	.03	31-155	.03	33-200	.30	34-200	.20	35-155	.10
249	31-149	.03	31-149	.03	.....	..	.....	..	35-60	.10
250	31-200	.03	31-285	.03	33-200	.30	34-200	.20	35-60	.10
259	31-110	.03	32-110	.03	33-200	.30	34-200	.20	35-60	.10
285	31-285	.03	32-155	.03	.....	..	.....	..	35-60	.10
350	31-285	.03	32-155	.03	33-200	.30	34-200	.20	35-155	.10
349	31-349	.03	31-349	.03	33-49	.30	34-49	.20	35-114	.16
349H	31-349	.03	31-349	.03	33-49	.30	34-49	.20	35-114	.16

PENN REEL PARTS No. 36 TO No. 41

SEE FOOTNOTES PG. 29

No. 36 Click Button		No. 37 Frame Post		No. 38 R. S. Post Screw		No. 39 L. S. Post Screw		No. 40 Left Side Bearing		No. 41 Bearing Spring	
Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each	Part No.	Price Each
36-60	.10	37-109	.20	38-109	.03	38-109	.03	40-109	.40	41-109	.10
36-155	.10	37-155	.20	31-60	.03	31-155	.03	40-60	.40	41-60	.10
36-155	.10	37-160	.20	31-60	.03	31-155	.03	40-60	.40	41-60	.10
36-155	.10	37-180	.20	31-60	.03	31-155	.03	40-60	.40	41-60	.10
36-60	.10	37-49	.20	38-49	.03	38-49	.03	40-60	.40	41-60	.10
36-60	.10	37-60	.20	38-60	.03	31-60	.03	40-60	.40	41-60	.10
36-60	.10	37-65	.20	38-60	.03	31-60	.03	40-60	.40	41-60	.10
36-60	.10	37-65	.20	38-60	.03	31-60	.03	40-60	.40	41-60	.10
36-60	.10	37-67	.20	38-60	.03	31-60	.03	40-60	.40	41-60	.10
36-60	.10	37-68	.20	38-60	.03	31-60	.03	40-60	.40	41-60	.10
36-60	.10	37-180	.20	31-60	.03	31-60	.03	40-60	.40	41-60	.10
36-60	.10	37-60	.20	31-60	.03	31-155	.03	40-60	.40	41-60	.10
36-60	.10	37-60	.20	31-60	.03	31-155	.03	40-60	.40	41-60	.10
36-60	.10	37-65	.20	38-200	.03	31-110	.03	40-60	.40	41-60	.10
36-60	.10	37-180	.20	38-200	.03	31-60	.03	40-60	.40	41-60	.10
36-109	.10	37-109	.20	38-109	.03	38-109	.03	40-109	.40	41-109	.10
36-60	.10	37-180	.20	38-110	.03	31-110	.03	40-60	.40	41-60	.10
36-60	.10	37-60	.20	38-110	.03	31-110	.03	40-60	.40	41-60	.10
36-60	.10	37-67	.20	38-110	.03	31-110	.03	40-60	.40	41-60	.10
36-60	.10	37-67	.20	38-110	.03	31-110	.03	40-60	.40	41-60	.10
36-114	.16	37-114	.30	38-114	.06	31-115	.06	40-114	.60	41-114	.16
36-115	.16	37-115	.40	38-114	.06	31-115	.06	40-114	.60	41-114	.16
36-115	.16	37-116A	.40	38-114	.06	38-115	.06	26-116+2.50		41-114	.16
36-115	.16	37-116	.50	38-114	.06	38-115	.06	26-116+2.50		41-114	.16
36-117	.16	37-116	.50	38-114	.06	38-114	.06	26-117 3.00		.....	..
36-117	.16	37-118	.60	38-114	.06	38-114	.06	26-117 3.00		.....	..
36-60	.10	37-60	.20	31-60	.03	31-60	.03	40-60	.40	41-60	.10
36-155	.10	37-155	.20	38-200	.03	38-110	.03	40-140 3.00		.....	..
36-155	.10	37-160	.20	38-200	.03	38-110	.03	40-140 3.00		.....	..
36-60	.10	37-49	.20	38-60	.03	38-60	.03	40-60	.40	41-60	.10
36-60	.10	37-160	.20	38-200	.03	31-60	.03	40-60	.40	41-60	.10
36-155	.10	37-155	.20	31-60	.03	31-155	.03	40-60	.40	41-60	.10
36-155	.10	37-160	.20	31-60	.03	31-155	.03	40-60	.40	41-60	.10
36-155	.10	37-180	.20	31-60	.03	31-155	.03	40-60	.40	41-60	.10
36-155	.10	37-180	.20	31-60	.03	31-155	.03	40-60	.40	41-60	.10
36-155	.10	37-180	.20	31-60	.03	31-155	.03	40-60	.40	41-60	.10
36-60	.10	37-155	.20	38-200	.03	31-60	.03	40-60	.40	41-60	.10
36-60	.10	37-155	.20	38-200	.03	31-60	.03	40-60	.40	41-60	.10
36-60	.10	37-209	.20	31-60	.03	31-60	.03	40-60	.40	41-60	.10
36-60	.10	37-49	.20	38-60	.03	38-60	.03	40-60	.40	41-60	.10
36-60	.10	37-155	.20	38-200	.03	31-60	.03	40-60	.40	41-60	.10
36-60	.10	37-155	.20	38-110	.03	31-110	.03	40-60	.40	41-60	.10
36-60	.10	37-60	.20	31-60	.03	31-155	.03	40-60	.40	41-60	.10
36-155	.10	37-155	.20	31-60	.03	31-155	.03	40-60	.40	41-60	.10
36-114	.16	37-49	.20	38-49	.03	38-49	.03	40-349	.40	41-60	.10
36-114	.16	37-49	.20	38-49	.03	38-49	.03	40-349	.40	41-60	.10

PENN REEL PARTS No. 42 TO No. 79

ILLUSTRATION OF PARTS ON PAGE 19.

Reel No.	No. 42 Worm		No. 43 R. S. Worm Bearing		No. 44 L. S. Worm Bearing		No. 44A L. S. Worm Bearing Spring		No. 45 Worm Gear	
	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
9	42-109	.40	43-9	.30	43-109	.30	.....	..	45-9	.30
109	42-109	.40	43-109	.30	44-109	.30	44A-109	.10	45-109	.30
209	42-209	.50	44-109	.30	43-109	.30	44A-109	.10	45-209	.30

Reel No.	No. 46 Line Guide		No. 46C Level-wind Complete		No. 47 Pawl		No. 48 Pawl Cover Screw		No. 50 Worm Shield		No. 375 Slotted Line Guide Post	
	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
46-9		.50	46C-9	1.10	47-109	.10	48-109	.10	50-109	.30	375-109	.30
46-109		.50	46C-109	1.10	47-109	.10	48-109	.10	50-109	.30	375-109	.30
46-209		.50	46C-209	1.20	47-109	.10	48-109	.10	50-209	.40	375-209	.40

Reel No.	No. 61 Complete Frame		No. 62 Click Spring		No. 63 Click Spring Screw with Lock Washer		No. 64 Fibre Idler Gear		No. 65 Idler Gear Screw	
	Part No.	Each Price	Part No.	Each Price	Part No.	Each Price	Part No.	Each Price	Part No.	Each Price
9	.....	..	62-209	.20	63-209	.05	64-9	.40	65-209	.10
209	61-209	2.50	62-209	.20	63-209	.05	64-209	.40	65-209	.10

349			62-349	.50	63-209	.05				
349H			62-349	.50	63-209	.05				

Part No.	Each Price	No. 66 Level-wind Drive Gear (Spool)		No. 67 Level-wind Drive Gear Lock Spring		TA200 Take Apart Thumb Screw	Reel	Harness Lug		Brace Lug		Rod Brace	
		Part No.	Each Price	Part No.	Each Price			Part No.	Each Price	Part No.	Each Price	Part No.	Each Price
66-9	.30	67-9	.02				113	54-113	.30	.....	..	.....	..
66-209	.30	67-209	.02				114	54-114	.30	.....	..	.....	..
							115	54-114	.30	54-114	.30	56-115	2.50
							116A	54-116	.30	54-114	.30	56-116	2.50
							116	54-116	.30	54-114	.30	56-116	2.50
							117	54-117	.50	54-117	.50	56-117	2.50
							118	54-117	.50	54-117	.50	56-117	2.50
							130	54-113	.30	.....	..	.....	..

Reel No.	No. 70 Spiral Bar		No. 71 RS Spiral Bearing		No. 72 LS Spiral Bearing		No. 73 Spiral Gear		No. 74 Cam Gear	
	Part No.	Each Price	Part No.	Each Price	Part No.	Each Price	Part No.	Each Price	Part No.	Each Price
350	70-350	2.75	71-350	.30	72-350	.50	73-350	.50	74-350	.60

Part No.	Each Price	No. 75 Cam Gear Screw		No. 76 Spiral Drive Dog		No. 77 Spiral Drive Dog Spring		No. 78 Spiral Gear Dog		No. 79 Spiral Gear Dog Spring	
		Part No.	Each Price	Part No.	Each Price	Part No.	Each Price	Part No.	Each Price	Part No.	Each Price
75-350	.10	76-350	.30	14-109	.03	78-350	.10	14-99	.03		

EXPLANATORY FOOTNOTES FOR PARTS LIST PGS. 20 TO 28

For convertible drag reel, add letter C to part number.

Right side ring for all Take-Apart reels are only sold as one unit, due to construction.

♠ Spacing Sleeve Assembly consisting of Spacing Sleeve, Cover Plate, and Felt Washer.

♡ Specify whether you need leather or fibre washers.

⊞ For old style reels, specify Spacing Sleeve, Cover Plate and Felt Washers. Details on construction of Penn Reels on Pages 30 and 31.

◇ If you need a flat spring, please specify.

□ Old style reels contained Part No. 11-66.

† For Convertible Lever, order Part No. 21S.

* For Convertible Lever Eccentric, mark letter (C) after part number.

‡ For Convertible Lever Eccentric Spring, order Part No. 20-155.

△ NOTE: For convertible eccentric lever screw, use Part No. 22-109.

★ For double rings, order inside ring by part number; for outside ring, mark letter (D) after part number.

⊞ Special one-piece cast spools available. Prices on application.

‡ For reel stands, to fit Baitcasting rods with offset reel seat, order by part number listed in column No. 30. For long reel stands, to fit salt or fresh water rods with straight reel seat, add letter (S) after part number listed in column No. 30.

♣ NOTE: On Reels Nos. 111-2/0 and 112-3/0 for "covered right and left side screws," use letter (C) after part number.

Left Hand reels require left hand parts. When ordering parts for these reels, mark letters (LH) after part number.

‡ These Prices for Ball bearings. Add letter (C) for old style standard bearings.

PENN REEL HANDLES

PENN REEL HANDLES are interchangeable. For OVERSIZE handle (longer than standard size) use the next larger size.

Length of handles:

Handle	#24-109	— length	2 7/8"
"	#24-180	— "	3"
"	#24-160	— "	3 1/2"
"	#24-155	— "	4"
"	#24-66	— "	4 3/8"
"	#24-49	— "	5"

When replacing handle screw, be sure to TIGHTEN handle screw before inserting small lock screw. See page 18 for 3-in-1 handles.

HOW TO ORDER PARTS

1. Order by part number only (not just the illustration number). Enclose check, money order or stamps, to cover cost of parts and parcel post charges. When the remittance is not enclosed, or when insufficient funds are sent, order will be sent C.O.D.
2. PRINT your name and address PLAINLY to avoid delay and lost mail.
3. MINIMUM CHARGE for part order is 50¢, because of handling costs.

PENN FISHING TACKLE MFG. CO.
3028 W. HUNTING PARK AVE.
PHILADELPHIA 32, PA.

CONSTRUCTION OF PENN FISHING REELS

TAKE-APART CONSTRUCTION

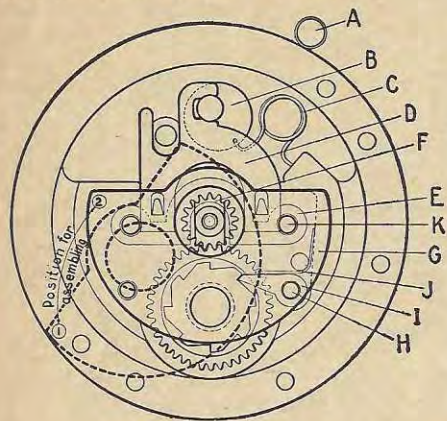
The term "Take-Apart" refers to the feature of quick and easy take-down of the reel for cleaning or spool change. To effect this, unscrew the knurled take-apart screw (part TA 200) three turns to the left and then pull it outward (away from plate), at the same time rotate the right side plate about $\frac{1}{4}$ inch to the left (counterclockwise) and pull it away from the reel frame, taking care not to drop the freed spool. To re-assemble, reverse the entire operation, making sure to screw the take-apart screw into the reel frame, as otherwise the right side plate might be lost.

OPERATION OF FREE-SPOOL CLUTCH

The Free-Spool Clutch is employed to either engage, or disengage gears. The free-spool snap lever is conveniently located on right plate rim and enables the angler to throw the reel into free spool, or engagement, at will. Setting the clutch in operation can always be done without danger of stripping gears, as these are always in mesh.

Operation:

1. Free spool lever (A) operates jack (D) through eccentric (B)
2. Eccentric jack (D) actuates yoke (E)
3. Yoke (E) engages or disengages pinion gear with spool



ASSEMBLING CLUTCH

1. After assembling star-drag mechanism (see page 31) place gear bridge (G) in position (1).
2. Replace pawl (I) and pawl spring (J). To do this, grip end plate with your left hand, and with left thumb press gear bridge (G) against plate, having gear bridge turned toward the left (position 1) far enough to allow the pawl and spring to be placed into position. After inserting the pawl and spring, rotate (without releasing thumb pressure) the gear bridge to the right (position 2) so that the two gear bridge screws (H Long Threaded) may be screwed into gear bridge, followed by two clutch yoke guide screws (K Short Threaded).

CONVERTIBLE STAR-DRAG

(On Penn models 140, 145, 49 and 349C)

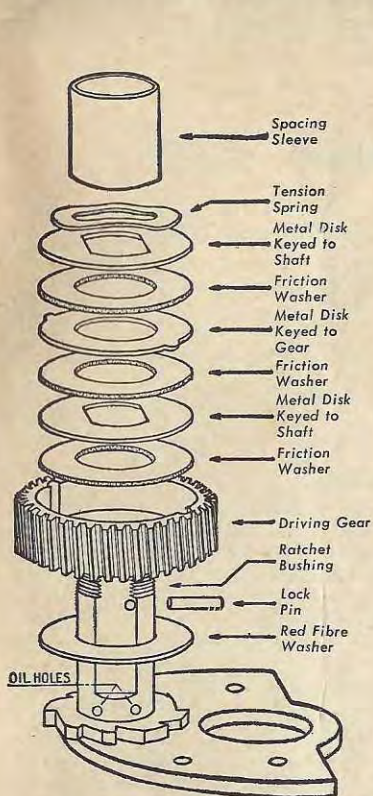
The convertible drag lever allows letting out and retrieving line while the reel is still in gear, also full handle control for hooking fish. But the foremost reason for its existence is the control a fisherman has when playing a lunker directly through the handle. Every tug, every flip of the tail of the fish is transmitted to the thumb and index finger of the angler, and it's really give and take at both ends until the contest is decided. Should it thereafter be desired to use the reel as an ordinary star-drag the change can be effected by simply flipping the convertible drag lever downward. For the angler who likes to have his reel in gear at all times and enjoys fighting his fish all the way directly through the reel handle, the convertible drag feature is highly recommended.

PENN "SYNCHRONIZED" AIR BRAKE

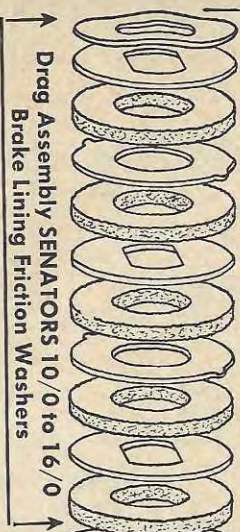
In the patented Penn "Air Brake" spool, air turbulence and resistance are automatically utilized to prevent overrunning of the spool, reducing the possibility of backlash by synchronizing the spool speed with that of the sinker or lure. Air braking action is greatest during the phase of the cast when it is needed most, namely, when spool rotation is at its peak.

DIRECTIONS FOR ASSEMBLING STAR DRAG

Our drag mechanism must be assembled in the order shown on the above diagram, alternating the metal discs keyed to the shaft with those anchored by means of lips on discs and corresponding splines cut on the inside of main gear wall, with the friction washers interposed between opposing metal discs, to act as braking media. A hard red fibre washer is interposed between the gear sleeve and recessed lower face of main gear. For satisfactory performance, friction washers must be dry.



Star-Drum Assembly for all Penn reels except Senator 2/0 to 16/0, 66, 67, 68, 349.



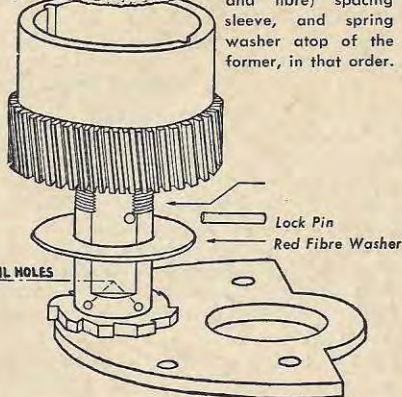
OIL HOLES

SENATOR 6/0 & 9/0

have the six lowest washers (friction washers in brake lining), plus felt washer with chrome disc, spacing sleeve and spring washer, in that order counting upward.

PENN NO. 130-66-67-68 and 2/0-3/0-4/0

have all ten washers shown at left (friction washers in leather and fibre) spacing sleeve, and spring washer atop of the former, in that order.



OPERATION OF STAR DRAG

The Star Drag is a braking mechanism, which puts varying degrees of tension, depending on the setting of the Star, on the fisherman's line. Care should be exercised not to put more drag on the reel than the line or rod can stand. The purpose of the drag is to have sufficient tension on the line to tire out a fish and slowly wear him down, rather than to stop his run entirely. Having too much drag on the line takes the fun out of fishing and endangers tackle. In order to check the amount of drag which you have on your reel, put it in gear and test by pulling line off the spool. Adjustment of the drag is effected by turning the star-wheel, under the handle, to the right (clockwise) to tighten, and to the left (anti-clockwise) to loosen. The full force of the braking action is against the fish only. The physical braking action takes place in the disc-clutch-like arrangement of drag washers. To maintain smoothness of operation, it is necessary that the drag washers not be allowed to become oil-soaked, charred, or glazed. The washers must have surfaces that are level and clean, as otherwise uneven, jerky drag action results.

SENATOR STAR-DRAG

Above is shown a cut of our drag mechanism. The friction washers are made of indestructible asbestos brake lining, never in need of any attention. In models 10/0 to 16/0, the brake drum is fitted with an oil-less bearing. The drag assembly provides a friction medium, both powerful and smooth in action; thus removing danger of rod or line breakage.

Caution: When putting reels away during the "off season" period, always back off the drag star completely, releasing all tension on the friction washers. With the spool in mesh, pull on the line (as if you were testing line tension) to make sure that the drag assembly is really free. Putting a reel away in damp atmosphere with the drag star pulled up tightly, may result in all the friction washers sticking to the metal discs.



Care of your reel



LUBRICATING PENN REELS

Our reels are equipped with dust and waterproof lubricating nipples, thru which lubricant is forced under pressure to the vital points. In addition, oil reservoirs are built into our reels. A tube of Penn Lube is furnished with each reel.

Oil spool bearings, handle nut, free spool lever, handle knob and base of sleeve, click button, driving gears through nipple (marked Grease) on front plate. Keep your reel well oiled to prevent the inroads of salt water—and remember—one drop of oil in the right place is worth more than two alongside.

CLEANING THE REEL

Should sand get into your reel, or should you wish to clean the reel, take it apart, and wash the parts with a mixture of $\frac{2}{3}$ kerosene and $\frac{1}{3}$ light lubricating oil; or one of the commercial solvents on the market for cleaning purposes. Our "Take-Apart" reels can easily be taken apart (see instructions on page 30). On all other models remove the plate screws, and the reel will come apart. For reassembling, see instructions on page 30.

PENN REEL REPAIR SERVICE

Your Penn Reel is a fine piece of mechanism and will benefit by expert service when such is required. Many Penn Reel dealers maintain repair departments. However, if local repair service is not available, please return your Penn Reel to our factory, at the address given below. Send your Penn Reels via Parcel Post, insured, with a letter attached to your package, stating what repairs you consider necessary, or the work you wish to have done. We will then make the necessary repairs at nominal cost. Your reel will be completely taken down, cleaned, oiled and adjusted. All worn parts will be replaced as required.

When the repairs have been completed, you will be notified of the cost. You can then remit the amount or request the return of your reel via Parcel Post, C.O.D.

NOTE: Best time to send your reel to the factory for overhauling is during Fall and Winter months.

Print your name and address clearly on your package to avoid loss.

REPAIR PARTS

Greatest care is given to standardization of all parts, wherever possible, regardless of type or size of the Penn Reel—a feature which has never been accomplished in the reel industry. This factor is of utmost importance in servicing Penn Reels, as it reduces to a minimum the number of parts required, and enables us to continue to supply parts for our discontinued models. Many Penn Reel dealers carry parts in stock. If they are unable to furnish the parts you require, order them directly from us.

CARE OF YOUR LINE

The improvement during the last thirty years, in lines used for sport fishing, is remarkable. Not only has the old reliable linen line been improved, mostly in the regularity, uniformity and evenness of its construction, but a variety of lines of synthetic composition have been developed and have found ready acceptance by the fishing fraternity, for their particular properties.

Good quality fishing line (grades vary) lasts a long time if given proper treatment and care. By using knots, which, by virtue of their construction are non-chafing, and which, because of these attributes have come down to our era through the ages, you will greatly prolong line life, and reduce the incidence of line failure. It will repay the angler to spend a few minutes to learn which particular knot serves best for a particular need, and then to learn how to make that knot in the most efficient manner! Besides physical wear, chemical effect from verdigris, rust, strong sun rays, fungi, mildew, uric acids (and others) are enemies of lines. If your line is used intermittently only, wash it in fresh water, and allow it to dry (in shade) before putting it back on reel. Reverse your line end for end, in mid-season; over winter or in "off season," store it in a cool, dry place, wrapped securely in paper. Caution: Never take a chance on doubtful line—it doesn't pay!

PENN FISHING TACKLE MFG. CO.

PHILADELPHIA 32, PA.