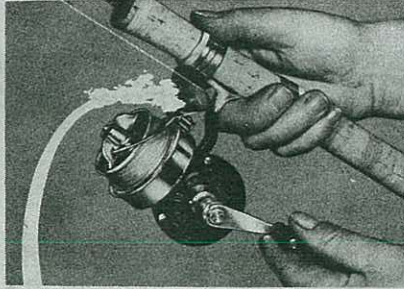


AIREX

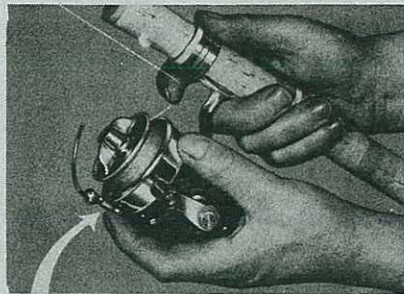
INSTRUCTION MANUAL

1. OPERATING THE REEL

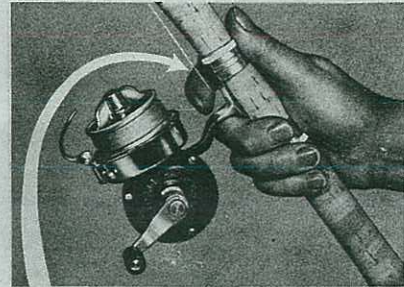
1. With line pick-up at top of reel, insert tip of right index finger under lead line and raise until line is clear of line pick-up.



2. Reverse crank handle approximately one quarter turn.



Note: Line pick-up is now at bottom of reel; line remains over right index finger. Place left thumb on revolving cup, press line, pick up release button UP with left index finger.



3. Using wrist motion only, raise the rod smartly to a position slightly behind the head. Begin the forward cast without hesitation. *This motion without hesitation, is the trick that makes the rod do all the work!* Release the line from the right index finger during the forward cast, pointing finger at target until cast is completed.



Note: The exact point of release varies with individual rod actions and lure weights.

4. To retrieve, simply turn crank handle. The line pick-up automatically closes; picks up the line and wraps it back on the spool. The retrieve may be started at any point during or after the cast.

Note: It is not necessary to brake or "thumb" Airex reels. *Backlash is impossible!*

2. CASTING

OVERHEAD CAST

Overhead casting permits greatest accuracy with good distance. It is the only ethical and safe method of casting, when in a boat with companions. It is perhaps the most difficult to learn to do correctly, but once learned, it stays with you.

Overhead casting is based on using the rod's flexibility and power to do the work—the rod is actually the means of storing energy on the back-cast and imparting it to the lure on the fore-cast. In spinning the rod works similar to the fly or bait casting rods, when properly handled.

Train yourself to use wrist motion only for easiest overhead casting—place a newspaper or a handkerchief under your elbow for practice.

1. Aiming the cast—hold rod in 10 o'clock position and sight it at target.



2. Start of Back-Cast—Rod bends as you abruptly bring it up.



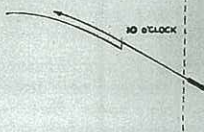
3. End of Back-Cast—Rod is stopped at about 12 o'clock, while the momentum of the back-cast bends the rod backward and stores energy for the forward cast. Back-cast stronger and faster with light lures—slower and easier with heavy lures.



4. Forward Cast—As back-cast is completed start forward AT ONCE and without hesitation, while rod is stressed backward. Let the rod do the work.

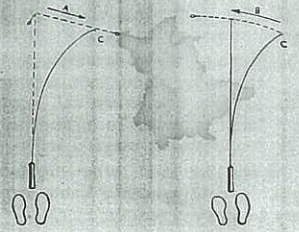


5. Release Lure—Let line slip off the forefinger at about 10 o'clock position, rod coming back to sight the target. "Follow through" by lowering the rod during the cast. Stop lure over the target by closing pick-up or placing forefinger on reel spool.



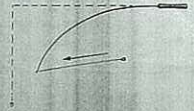
SIDE CAST

Right or left hand—use little or no back-cast—just a snap of the wrist. This cast will send the lure low over the water. Motions "A" and "B" should be continuous with no hesitation at point "C."



CATAPULT CAST

Let out line about 1/2 of rod, grasp lure in left hand (carefully to avoid getting hooked), pull back bending the rod and release—Good for short casts from under bushes to land lure or bait under overhanging bushes across the creek.



SIDE-SWING CAST

Right or left hand—good for lures too heavy for the rod and for heavier live bait. Swing rod back and then swing it forward, slowly and accelerating gradually.

In casting with a light spinning outfit use minimum force with wrist motion—use forearm sparingly. Practice casting with a 1/4, 3/8 or 5/8 oz. practice plugs (to suit the rod) over water. If you cast over a floor or pavement, use a small bag filled with sand and put tension on your line by grasping rod above reel and letting the line slip through your fingers as you reel in—brace rod handle against your body. This will cause the line to wind on spool with uniform tension—otherwise it will not cast well.

3. SPOOLING THE LINE

With reel on rod handle run line directly through large butt guide and attach to reel spool. Apply tension to line by running it through thumb and index finger of the right hand. WOOD SPOOL MUST REVOLVE WHILE LINE IS TAKEN FROM IT—TO PREVENT LINE TWIST. This can be done as follows: 1. Place wood spool in left hand trouser pocket; or, 2. Toss wood spool into water; or, 3. Make an axle with a pencil or nail.

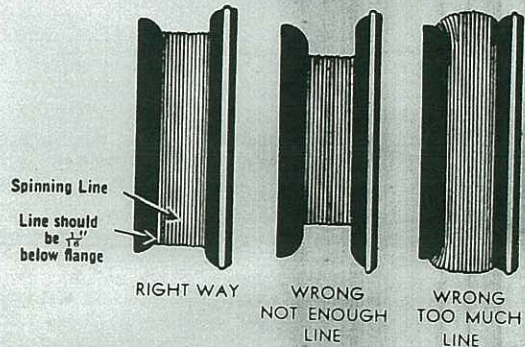
Backing:

Not over 100 yards of any lines need be used in average fishing, and a filler or backing of any sort of heavier line or thread must be used to fill the bottom spool. This is better than cork arbor. Tie line to backing with a blood or barrel knot if of about the same thickness. Use double square knot if backing is much thicker.

CAUTION

Always fill spool to capacity as shown below.

For better casting results use AIREX lines.



WRONG NOT ENOUGH LINE

WRONG TOO MUCH LINE

4. KNOTS FOR NYLON LINES

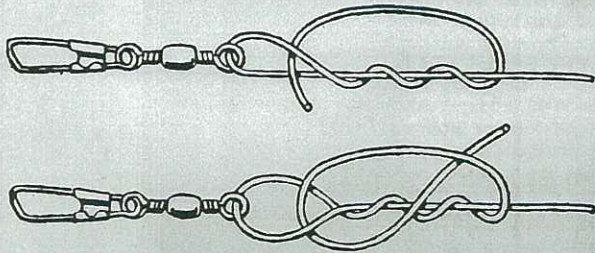
IMPROPERLY TIED KNOTS ARE THE WEAKEST LINK IN THE LINE. The following knots are recommended for both braided and monofilament nylon lines.

1. Joining line to backing, to leader, or repairing broken line—use barrel or blood knot, taking a minimum of 5 turns on each side.
2. Joining line to swivel, snap or lure—use clinch knot, taking at least 5 turns. Turtle knot is good for weighted flies and bugs.
3. No leader is needed when using monofilament.

Do not jerk knots when tightening. Pull up slowly and evenly until tight. In cold weather knots warmed in the mouth before tightening may be drawn tighter.

THE IMPROVED CLINCH KNOT

This is highly recommended as an excellent knot for flies, bait hooks and lures and is easily and quickly tied.



PERFECTION LOOP KNOT

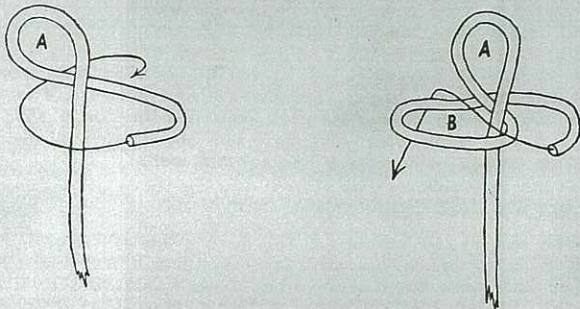


Fig. 1: Take one turn around the nylon, and hold the crossing between thumb and forefinger.

Fig. 2: Take a second turn around the crossing, and bring the end around again between the turns.

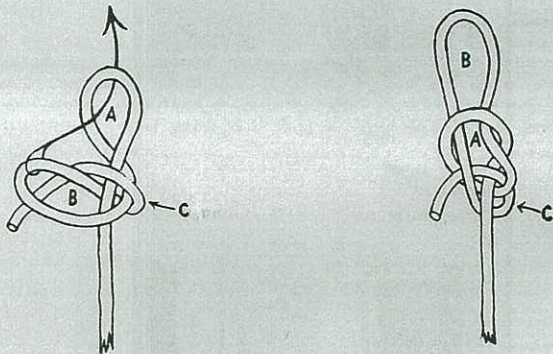


Fig. 3: Pass Loop B through Loop A.

Fig. 4: like this. Pull on loop and leader until jammed.

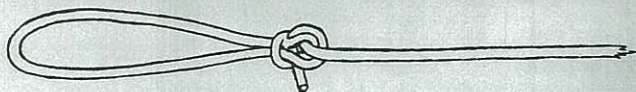


Fig. 5: The finished knot; about 75% of line strength.

Tying Nylon to Nylon BLOOD KNOT

This is the best we know for this purpose. The "barrel" knot is a variation of the "blood" knot; about 87% of line strength.

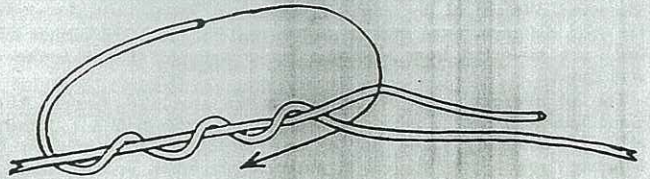


Fig. 1: Lap the ends of the strands to be joined, and twist one around the other, making at least three turns. The drawing shows only three and a half turns, to avoid complexity. Count the turns made. Place the end between the strands, following the arrow.

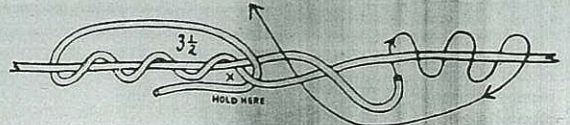


Fig. 2: Hold the end against the turns already made, between the thumb and forefinger, at point marked "X," to keep from unwinding.

Now wind the other short end around the other strand for the same number of turns, but in the opposite direction.

3 1/2 loops are shown, but 5 1/2 loops on thin nylon is better.

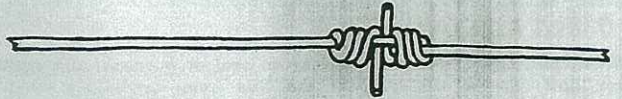


Fig. 3: Appearance of the finished knot. All that remains to be done is to cut off the short ends, close to the knot. To tighten knot, pull the line on each side of the knot.

MULTIPLE FISHERMAN'S KNOT

This knot is as good as the blood knot, for tying two strands of line or for fly line leaders.

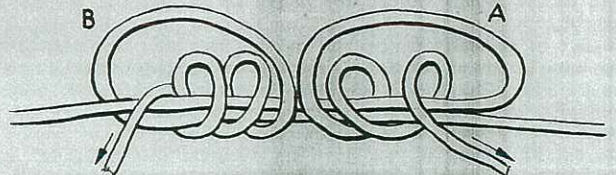


Fig. 1: Lap left end of line, loop over itself as in A, wrap 2 to 5 strands as shown, and pull on end to tighten loop A to prevent it from unravelling while you work on loop B. Repeat the performance on loop B. Then pull slowly and gradually on the line on left and right of knot with both hands tighten knot well.

Both loop A and B can be separately pulled up fairly tight before you complete the tightening of the knot by pulling on the line.



Completed knot—about 85% of line strength. Trim ends short.

5. LINE TWIST

Revolving lures, such as spinners without a rudder head, may put a severe twist into the line in either right or left direction. This is annoying and inconvenient. To prevent such line twist, use a small swivel snap on the lure and snap one Airex celluloid keel on the line a few inches ahead of the swivel. All Airex spinners with lead rudder heads, or off-center weights, minimize the chances of a twist.

6. WEIGHT OF LINES

For casting lures and baits from 1/16 to 1/4 ounce, use lines of 3- and 4-lb. test (0.008" to 0.010" in diameter), for casting lures from 1/4 to 5/8 ounce, use lines from 4- to 8-lb. test (0.010" to 0.013" in diameter). Weight of line must be balanced against weight of lure for good distance, ease and control in casting. Lines, no matter how light, are protected from breakage by adjustment of drag-brake on reel spool.

For all average fresh water fishing the specially treated Airex monofilament 0.010" is recommended—it tests well over 4-lb. Storage coils are instantly taken out of any monofilament—stretch it by slipping through your fingers or make a few casts. Braided lines of same thickness are easier to cast than monofilaments because they are more flexible—thus may be better for beginners.

7. LINE CAPACITIES

Approximate Airex line capacity of Mastereel, Spinster and Standard Spools, No. 810 and No. 815 is:

Line	Thickness	Lb. Test	Approximate Yards
3-lb. monofilament	0.008"	3	375
4-lb. monofilament	0.010"	4	210
6-lb. monofilament	0.012"	6	150
4-lb. braided	0.009"	4	225
6 lb. braided	0.011"	6	200
8-lb. braided	0.012"	8	180
12-lb. braided	0.017"	14	75

Other lines in proportion to their actual thickness.

Capacity of Mastereel Spool No. 811 is approximately 10-15% greater.

8. USING AIREX LINE CLIP

When reel spool is filled, whether on reel or a spare, slip on the Airex line clip—it will prevent the line from unwinding even if carried in pocket. The clip is better than a rubber band.

9. ADJUSTING DRAGBRAKE

Airex spinning reels are equipped with drag brakes, adjusted by turning the wing-nut in or out. This protects your line and tackle from breakage by heavy fish or snagging. It also permits using light lines for better casting and better sport.

To adjust, mount reel on rod (leave tip section off), set the anti-reverse lock, thread the line forward through butt-guide ring, attach the line to some known weight on the floor that is about 25-30% less than lb.-test of the line. Then, holding the rod vertically, handle up, try lifting the weight. If drag-brake slips, tighten the wing-nut gradually until it just starts slipping when holding the weight suspended. Pretty soon you will learn adjusting the brake by pulling the line out by hand. If you have an accurate fish weighing scale, attach it to some rigid object, tie the line to the scale hook, and pull reel away, adjusting the drag brake until it just slips when the scale shows the proper weight. Once the brake is adjusted so that jerking and pulling will not break the line, leave it alone until you have reason to think that adjustment changed considerably. Do not play with the brake wingnut while fighting a fish—if you hook a big one and try to stop his run by tightening the wing-nut, chances are he will break the line. On the other hand—even a 20-lb. musky will not run far against a steady drag of 3-lb. on a 4-lb. monofilament.

If the fish wraps the line around a heavy stump—more power to him—and you may have to break the line anyway. In stumpy and weedy waters and for heavy fish use the heaviest Airex lines that will cast well with the weight of lures you expect to use. You can use your right forefinger for an auxiliary brake on spool.

10. ADJUSTMENT OF SPOOL POSITION—Mastereel

The reel should cross-wind the line on the spool evenly from flange to flange. If line piles up to the rear, loosen small set screw in the click gear and screw the gear in or toward the reel 1 or 2 turns; if the line piles to the front—unscrew the click gear out. Tighten the set-screw and try winding the line. There is no adjustment on the Spinster or Vic.

11. USING THE ANTI-REVERSE LOCK

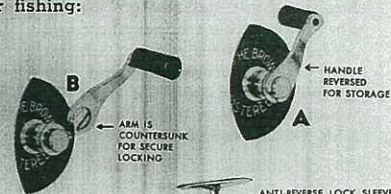
The Mastereel, Spinster, and Vic are equipped with the Airex anti-reverse lock, which is very convenient for:

- 1—Fighting heavy fish—put it "on" as soon as you set the hook. When fish takes the line out against drag-brake, stop turning crank handle. Resume retrieving as soon as fish stops. Help by "pumping" with the rod.
- 2—Landing or netting the fish—it is snubbed down while netting the fish (head first into the net).
- 3—Trolling—Airex reels make perfect trolling outfits with the anti-reverse lock "on" and drag-brake properly adjusted. The 8-lb. braided or 6-lb. monofilament Airex lines are good for trolling. Use a celluloid or a weighted keel ahead of swivel and lure or bait, if they are spinners. Durod 6 and Airex Glass rods are tougher and more resistant to "set".
- 4—Still fishing—Simply feed out enough line for your purpose, set the anti-reverse lock and you are ready.
- 5—Carrying the outfit from place to place—set the hook of lure in the guide, tighten the line with the reel and set the anti-reverse lock "on", and carry your rod, butt forward, through woods and brush.
- 6—Keep the anti-reverse lock in "off" position except when playing fish.

12. HOW TO REVERSE HANDLE

Crank handle on all Airex spinning reels is reversible for compact storage. To set the handle for fishing:

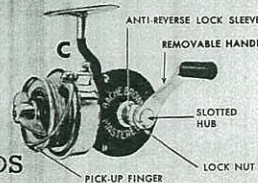
1. Loosen the lock-nut—fig. A.



2. Remove handle—fig. B.

3. Reverse handle and replace on hub.

4. Tighten lock-nut securely.



13. GENERAL CARE OF AIREX RODS

Airex Durod "6"

Durod is made of the new Duraloy "75"—almost three times lighter than steel. It is close to bamboo in action. Durod will not take a set even in strenuous use, and it cannot snap or break. It will bend if you slam a car door or step on it in a boat—just straighten it out with your hands—never with a hammer—and it will be as good as new.

Airex Tonkin Cane Rods

The split bamboo rod, glued with modern plastic glues and properly waterproofed with varnish, or resin impregnation, is still the best for fishing. It requires more care than Durods. While it is perfectly O.K. to use it in heavy rain, do not leave it standing overnight in rain, while you are tucked away in a tent or camp. After fishing take it out of the weather, wipe it clean and dry, and hang it up in its dry cloth bag, leaving the tying tapes loose. Never pack it in a metal or fibre tube with a screw top, unless the rod, the cloth bag and the interior of tube are all absolutely dry. For prolonged storage—hang the rod in its loose cloth bag in a dry, shady cool place in the house, away from stoves and radiators. Seasonally, check on loose guides and windings, fit of ferrules, and cracked or scraped varnish. Effect the needed repairs yourself or return to Airex for overhauling.

While all Airex bamboo rods are carefully made, the quality of Chinese cane deteriorated since the war and for this reason no bamboo rods can be rigidly guaranteed. However, Airex will make fair adjustments and exchanges.

14. PICK-UP FINGERS

The Standard, Spinster, and Vic reels have plain pick-up fingers without rollers. When eventually worn by nylon, replace with new ones.

15. CARE OF SPINSTER DRAGBRAKE

Please note that the Spinster is equipped with a revolutionary and exclusive expanding split-drum drag brake. It has an exceptionally smooth progressive action combined with an indefinitely long life. To secure full benefit from this new Airex invention, carefully follow these simple instructions:

1. Unscrew wing-nut and pull the spool off the expansion brake drum. Compression of the split drum lips will cause a slight resistance at first.
2. Wipe brake drum with a clean dry rag.
3. With your finger smear evenly a small amount of the special brake dressing (supplied in a small container) on the face of the brake drum.
4. Install spool on the drum giving it an initial push to compress the lip of the drum and replace wing nut, adjusting it to produce a brake drag safely below the pound test of your line.
5. Always keep the drag brake assembly free from grit and dirt.

16. LUBRICATION

Before every season oil with "3 in 1" or SAE10 motor oil: crank-handle shaft; anti-reverse sleeve (Mastereel) or lever (Spinster); handle knob; pick-up finger shaft and roller (Mastereel).

Once a season remove housing cover; wash interior with gasoline and old toothbrush, dry, and re-pack with good soft-grease. Too much grease packed into the gear housing will make the reel seem stiff when completely assembled. USE ONLY AIREX SPINLUBE OR SIMILAR GOOD GREASE.

17. REPAIRS TO RODS AND REELS

Airex and all its Authorized Service Stations are prepared to give quick repair service at reasonable cost.

In all cases, return your equipment through your dealer. Mail it direct to Airex only when necessary, postage prepaid, insured, with your name and return address clearly shown. Write a separate letter explaining your needs.

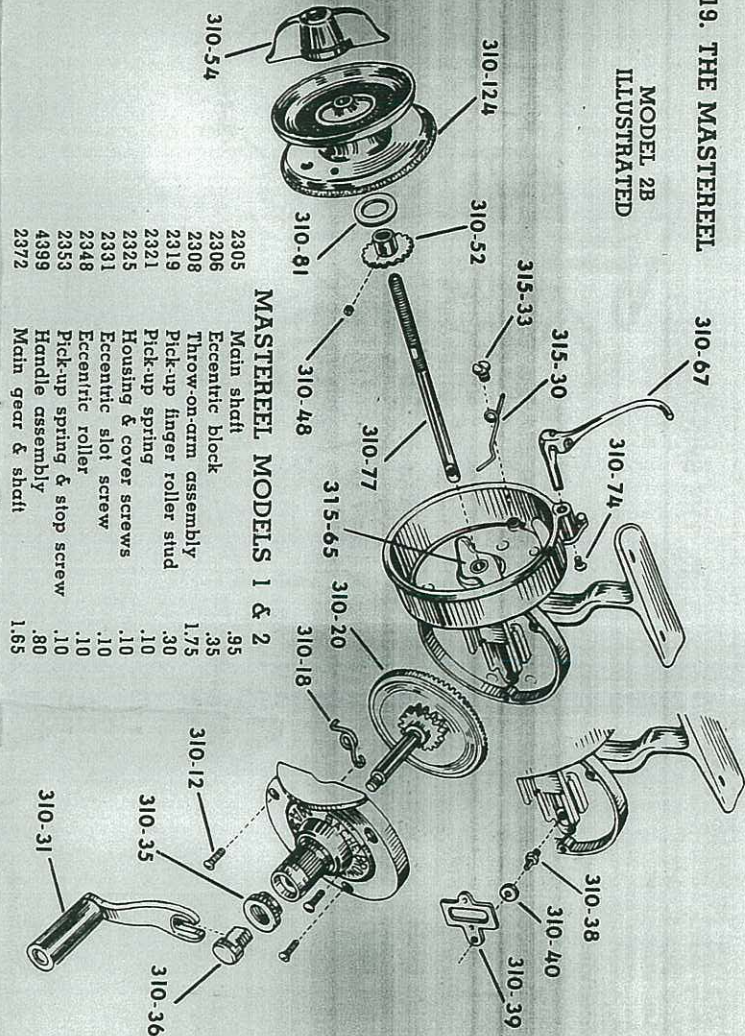
18. TROUBLE SHOOTING

	See Paragraph
Casting distance	2, 3, 5, 6, 10
Casting accuracy	1, 2
Trolling or Netting	4, 11
Line "bunches" off spool	3, 8, 10
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Line parts at strike	4, 9, 15
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MASTEREEL MODELS 2A & 2B		
310-10	Pinion gasket	.10
310-12	Cover screw	.10
310-14	Anti-reverse pawl	.10
310-15	Anti-reverse pin	.10
310-16	Anti-reverse sleeve	.30
310-18	Anti-reverse spring	.10
310-20	Main gear & shaft	.85
310-30	Handle assembly	.75
310-38	Eccentric stud	.10
310-39	Yoke	.10
310-40	Guide roller	.10
310-47	Cup bushing	.20
310-48	Set screw	.10
310-52	Click gear	.35
310-54	Brake nut	1.50
310-64	Hand return	.20
310-71	Roller	.10
310-74	Finger screw	.10
310-75	Button	.10
310-76	Roller stud	.10
310-77	Main shaft	.60
310-81	Brake washer	.10
310-113	Screw driver	.20
310-124	Fuzzy wire	.10
315-30	Finger spring	.10
315-33	Finger spring screw	.10
315-65	Throw-on-arm cassem.	1.05
4199	Handle Conversion	1.00

19. THE MASTEREEL

MODEL 2B ILLUSTRATED



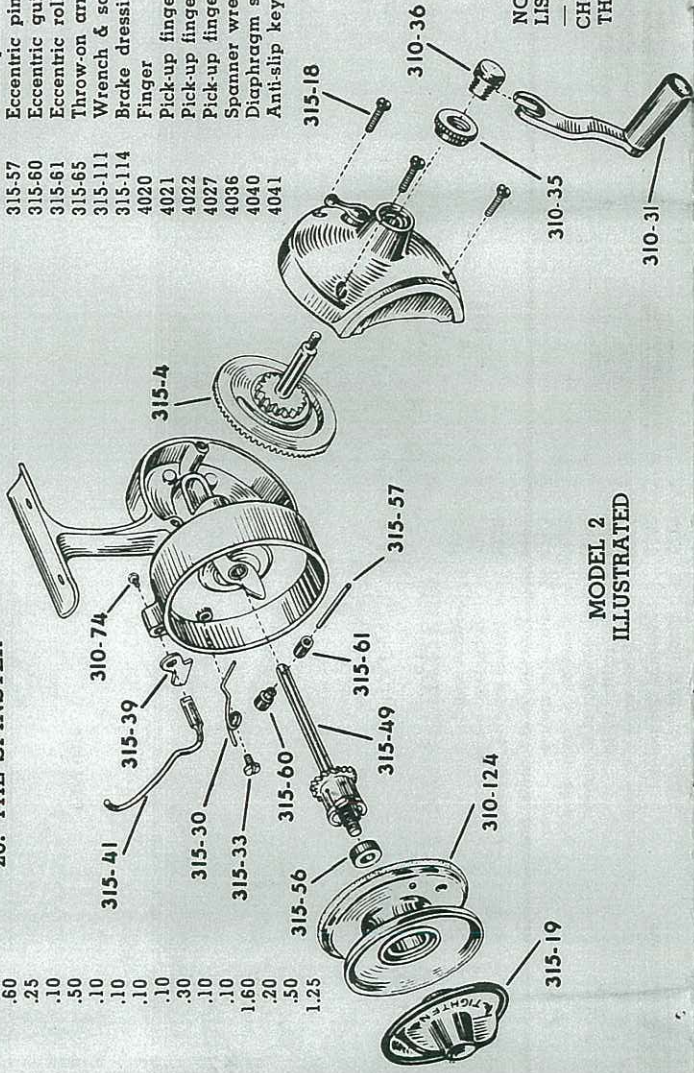
MASTEREEL MODELS 1 & 2		
2305	Main shaft	.95
2306	Eccentric block	.35
2308	Throw-on-arm assembly	1.75
2319	Pick-up finger roller stud	.30
2321	Pick-up spring	.10
2325	Housing & cover screws	.10
2331	Eccentric slot screw	.10
2348	Eccentric roller	.10
2353	Pick-up spring & stop screw	.10
4399	Handle assembly	.80
2372	Main gear & shaft	1.65

SPINSTER MODELS 1 & 2

310-74	Finger screw	.10
315-4	Main gear & shaft	.60
315-9	Anti-reverse knob	.25
315-11	Anti-reverse cam	.10
315-12	Cover	.50
315-13	Anti-reverse spring	.10
315-14	Anti-reverse pawl	.10
315-15	Drive screw	.10
315-18	Cover screw	.10
315-19	Brake nut	.30
315-30	Finger spring	.10
315-33	Finger spring screw	.10
315-34	Cup	1.60
315-39	Hand return	.50
315-41	Finger	1.25
315-49	Main shaft	

20. THE SPINSTER

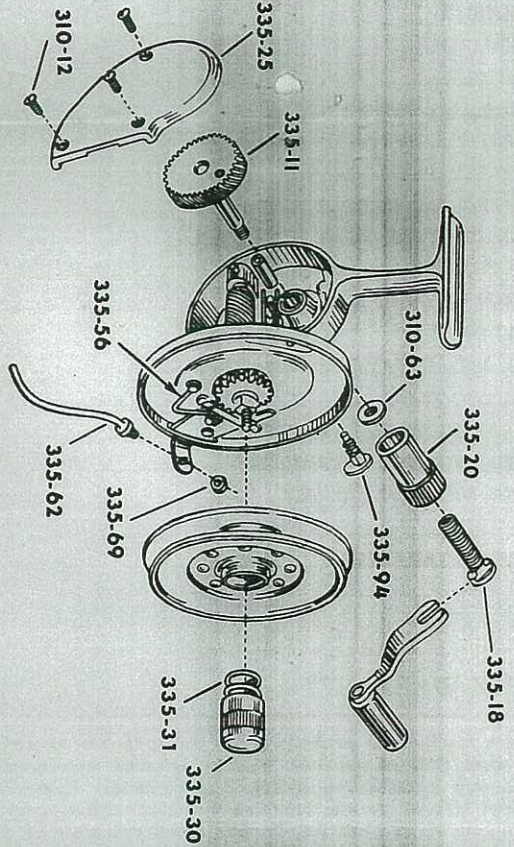
315-52	Brake pin	.10
315-57	Eccentric pin	.10
315-60	Eccentric guide roller	.10
315-61	Eccentric roller	.10
315-65	Throw-on arm	1.05
315-111	Wrench & screwdriver	.15
315-114	Brake dressing	.50
4020	Finger	.10
4021	Pick-up finger sleeve	.10
4022	Pick-up finger spring	.10
4027	Pick-up finger nut	.10
4036	Spanner wrench	.10
4040	Diaphragm seal	.25
4041	Anti-slip key	.10



MODEL 2
ILLUSTRATED

NOTE: ALL PARTS LISTED UNDER 310 — ARE INTER-CHANGEABLE WITH THE MASTEREEL.

21. THE VIC



VIC 335 ILLUSTRATED

NOTE: ALL PARTS LISTED UNDER 310 — ARE INTER-CHANGEABLE WITH THE MASTEREEL.

310-12	Cover screw	.10
310-63	Handle thrust washer	.10
335-30	Brake nut	.15
335-31	Brake nut spring	.10
335-35	Rivet	.10
335-36	Click spring	.10
335-56	Spring	.10
335-57	Counterweight	.10
335-59	Drive screw	.10
335-62	Finger	.50
335-69	Nut	.10
335-94	Anti-reverse knob	.15

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23. AIREX WARRANTY

All Airex mechanical products (reels and rods) are guaranteed for 90 days from date of purchase against defective workmanship and materials, and parts found defective upon factory inspection shall be replaced free of charge, provided the merchandise, accompanied by the guarantee bearing the dealer's name and date of purchase, is returned to our factory, postpaid, within the guarantee period.

A reel or rod that has been damaged through tampering, misuse or improper handling, will not be covered by ~~the~~ ~~box~~ guarantee. However, such damaged items, if received at our factory, will be repaired at nominal cost of parts and labor, plus postage, and returned to you C.O.D.

AIREX CORPORATION

DIVISION OF THE LIONEL CORPORATION

411 FOURTH AVENUE, NEW YORK 16, N. Y.