PENN REELS®

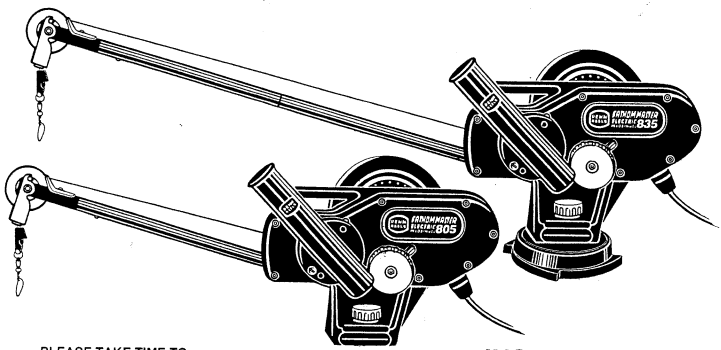
PENN®

FOR DEEP TROLLING

FATHOM-MASTER®

ELECTRIC DOWNRIGGER

805-835



PLEASE TAKE TIME TO
CAREFULLY READ THIS MANUAL.
PLEASE KEEP THIS MANUAL SAFE
AND DRY FOR FUTURE REFERENCE.

MODEL 805 AND 835 SHOWN WITH OPTIONAL
810RH ROD HOLDER.

INSTALLATION
MAINTENANCE
HOW TO USE
PARTS
ACCESSORIES

OWNER'S MANUAL

COVERING FATHOM-MASTER 805/835 ELECTRIC DOWNRIGGER

PENN FISHING TACKLE MFG. CO., 3028 W. HUNTING PARK AVE., PHILA., PA 19132-1121
MADE IN U.S.A.

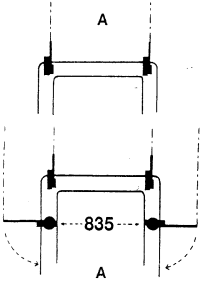
INSTALLING THE 805/835 ELECTRIC DOWNRIGGER

RECOMMENDED FATHOM-MASTER® 805 INSTALLATION METHODS

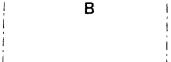
READ MANUAL CAREFULLY *BEFORE* DRILLING HOLES

SELECTING LOCATION

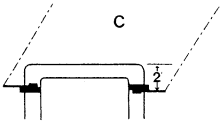
1. Look for ease of accessibility to operate the downrigger and rod/reel. Have someone else firmly hold the downrigger in the position you select and go through the motions of using it while handling a rod/reel at the same time. Pretend that a fish was hooked and you have to get quickly to the downrigger and rod/reel. The model 805 can be mounted on the transom or either side of the boat. The boom pulley automatically swivels to the pull of the cable.



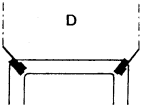
A. Standard mounting method. This system is also good when you are considering using model 835 swivel base downriggers forward of your 805 models.



B. This mounting method separates the two cables more than the standard method. This method keeps the cable farther from the outboard engines, swim platform, etc., allowing the boat to make tighter turns while deep trolling.



C. When mounting model 805 downriggers forward of the transom, do not exceed a distance of 2 ft. (610mm). Going beyond this distance will affect the turning radius of the boat while deep trolling.



D. The downriggers can also be mounted at an angle. The boom tip pulley will automatically track with the cable.

PENN OFFERS FOR YOUR CONVENIENCE AN OPTIONAL ACCESSORY THAT MAY PERMIT YOU TO QUICKLY MOUNT YOUR 805/835 DOWNRIGGER. THIS ACCESSORY UTILIZES AN EXISTING FLUSH-MOUNT ROD HOLDER ON YOUR BOAT. (QUICK-MOUNT® JR. 632 OR QUICK-MOUNT® SR. 634) SEE ACCESSORY SECTION.

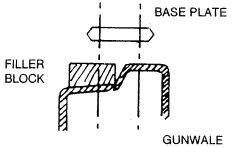
If your boat is now equipped with Fathom-Master® 600 series manual downriggers, the electric 805/835 will slide on your present base plates.

2. Strive for maximum clearance of the boom tip away from the boat. While using the downrigger during rough sea conditions, the trolling weight will have a tendency to swing around when coming out of the water.

3. The top surface of the base plate (key#75) on the swivel base has a raised ridge on one end of the plate. The purpose of this ridge is to locate the downrigger in the proper position so that the hold-down knob (key#2) can be tightened down into the base plate. The downrigger will slide on or off only at the opposite end of the raised ridge.

4. A clearance of 4 1/4" (107.95mm) is required between the end of the base plate (opposite the ridge) and any obstruction (i.e., cleats, navigation lights, etc.) for the downrigger to be installed or removed.

5. The base plate measures 4 1/2" (114.3mm) long and 3 1/4" (82.55mm) wide and requires a flat mounting surface (not necessarily level). Be sure that there is an additional 1/2" (12.70mm) clearance on both sides of the length of the base plate. If a flat mounting area does not exist where you want to install a base plate, you can custom fit a wood spacer block.



INSTALLING THE 805 BASE PLATE

1. After selecting the location of the base plate, check underneath the mounting surface to ensure that there is sufficient space for the 4 mounting nuts and washers.

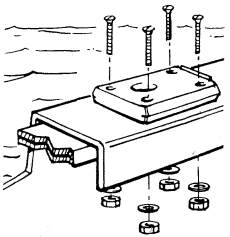
Note: For your convenience, Penn supplies the stainless steel mounting hardware, 4 bolts (1/4 x 20) with nuts and washers.

If through-bolting of the base plate is not practical, consult with your dealer for other methods of securing it to the gunwale: toggle bolts, screws, etc. If at all possible, try to use at least 2 through-bolts.

Before drilling holes, make sure that the drill will not cut or puncture electrical wiring, steering cable, fuel hoses, etc.

Note: If you use a different method of securing the base plate to the gunwale, the 4 holes might be another diameter. Example: If you use #14 wood screws the hole diameter would be 3/16" (4.762mm) or smaller.

2. Use the base plate as a template for drilling four 1/4" (6.35mm) holes.



3. A backing plate is recommended; for some makes of boat it is a must. Use at least 1/2" (12.70mm) thick exterior grade plywood, pressure treated wood or other suitable material. The purpose of the backing plate is to reinforce the gunnel area around the base plate.

4. Before bolting down the base plate, check that it is properly positioned in regard to the raised ridge. Be sure that the base plate nut (key#78) is taped to the bottom side of the plate.

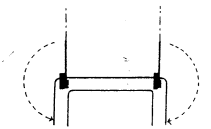
RECOMMENDED FATHOM-MASTER® 835 INSTALLATION METHODS

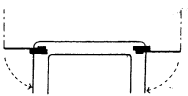
READ MANUAL CAREFULLY *BEFORE* DRILLING HOLES

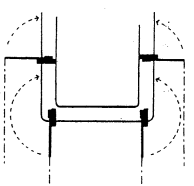
SELECTING LOCATION

SELECT MOUNTING LOCATIONS FOR YOUR FATHOM-MASTER™ 835 USING THE FOLLOWING SUGGESTIONS:

1. Look for ease of accessibility and clearance to operate the downrigger and rod/reel. Have someone firmly hold the downrigger in the position you select and go through the motions of using it while handling a rod/reel at the same time. Pretend that a fish was hooked and you have to get quickly to the downrigger and rod/reel. The model 835 can be mounted on the transom on either side of the boat. The boom pulley automatically swivels to the pull of the cable.







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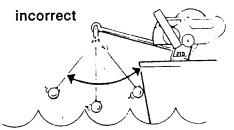
2. Strive for maximum clearance of the boom tip away from the boat. While using the downrigger during rough sea conditions, the trolling weight will have a tendency to swing around when coming out the water.

incorrect



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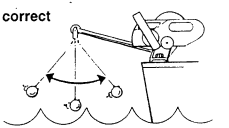


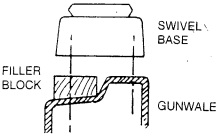
3. The top surface of the base plate (key#75) on the swivel base has a raised ridge on one end of the plate. The purpose of this ridge is to locate the downrigger in the proper position so that the hold-down knob (key#39) can be tightened down into the base plate. The downrigger will slide on or off only at the opposite end of the raised ridge.

4. A clearance of 4 1/4" (107.95mm) is required between the end of the

base plate (opposite the ridge) and any obstruction (i.e., cleats, navigation lights, etc.) for the downrigger to be installed or removed.

5. The adjustable swivel base bottom half (key#1) is 6 1/8" (155.6mm) in diameter and requires a flat mounting surface (not necessarily level).

6. If a flat mounting area does not exist where you want to install the adjustable swivel base, you can custom fit a wood spacer block.



7. The 835 boom requires 50" (1270mm) clearance to rotate from the non-fishing position to the trolling position. Be sure no obstructions would interfere (i.e., radio antennas, other downriggers, etc.). While doing this, also check that the frame clears any obstructions.

INSTALLING THE 622 ADJUSTABLE SWIVEL-MATIC® BASE

Penn's 622 Adjustable Swivel-Matic® Base locks into 36 different positions, allowing a complete, 360 degree circle of rotation on your Penn Fathom-Master® downrigger. With the 622ASM, you can easily turn and lock your downrigger into a number of different deep trolling positions, and just as easily position your downrigger boom inboard for rigging, running or docking. Solid Penn engineering assures years of convenient, trouble-free downrigger fishing.

1. After selecting the location of the swivel base, check underneath the mounting surface to make sure that there is enough clearance for a backing plate and mounting hardware. Some types of boats may not provide easy access to this underside area. If this is your case, you can cut an access hole and install a cover over the hole. Check with your local marine supplier for details.

> Note: For your convenience, Penn supplies the stainless steel mounting hardware, 4 screws (1/4 x 20) with stainless steel nuts and washers.

If the selected area on your boat is not suitable for through-bolting the base, consult with your marine supplier for other methods of installation (toggle bolts, lag bolts, oversize screws, etc.). Four through-bolts are best. If at all possible, try to use at least two through-bolts.

2. Use the swivel base cover (239-620) or the base plate (133-600) as a template to mark the holes to be drilled. Notice that the four marks form a rectangular pattern (not a perfect square). It does not matter which way the hole pattern is positioned on your boat in order for the 622 swivel base to operate correctly, since it swivels in a complete 360 degree circle. Make sure that the hole pattern is positioned so that you will have enough clearance to install the mounting hardware. When making your marks, be sure to hold the cover plate or base plate securely to keep it from shifting and to insure that your holes will be "on target."

3. Drill four 1/4" (6.35mm) holes in your selected location (if through-bolting all four holes). For the most accurate installation, drill four smaller "pilot" holes before drilling your 1/4" holes.

4. A backing plate is recommended; for some makes of boats, it's a must. Use at least 1/2"(12.70mm) thick exterior grade plywood, pressure treated wood or other suitable material.

5. The 622 Adjustable Swivel-Matic® Base comes already assembled. Note the oval-shaped hole on the swivel base top. The oval hole provides access to each of the four mounting screws.

The adjusting ring is toward the bottom of the swivel base. It has four finger grips (shark fins). First pick the base up, and insert the fingers of your left hand (if right handed) into the bottom of the swivel base. With your left thumb, push the adjusting ring counter-clockwise until you feel a positive stop (about 1"). With the adjusting ring in this position, you can not turn the swivel base top. You may hear and feel some soft clicks as you turn the swivel top, which is OK. Once the 622ASM is installed, you won't hear any clicks as you adjust the base (if you operate it properly). Turn the swivel top until the oval access hole is above a mounting screw hole. You should be able to peek right through the swivel base assembly. At this point, release the adjusting ring to lock the swivel base top in position.

Carefully match this mounting hole with the proper one of the four holes you just drilled. Be sure that your swivel base is positioned so that the rectangular pattern of the swivel base holes will match your drilled holes. Insert the first mounting screw through the swivel base and mounting surface.

6. To insert the next mounting screw, push the adjusting ring counter-clockwise until it stops, and holding that position, turn the swivel base top so that the oval access hole is over the mounting screw hole. Again, you may hear and feel some soft clicks as you work the swivel top toward the next hole. Release the adjusting ring to lock

the swivel base top in position. Drop another mounting screw through the base and mounting surface.

7. Repeat step 6 for inserting the third and fourth mounting screws. Just push the adjusting ring counter-clockwise until it stops, and you should now be able to turn the swivel base top easily in either direction, without hearing or feeling any soft clicks. (This is because the first two screws have sufficiently anchored the bottom of the base.) After inserting all of the mounting screws, double check that the screws are properly seated into the swivel base.

8. Position the recommended backing plate underneath the mounting surface and install the washers and nuts on to the mounting screws. Tighten securely but do not over-tighten. For best results, tighten opposite screws as you go, similar to screwing lug nuts on a car tire.

9. Position the swivel base cover and base plate on top of the swivel base (make sure that the base plate nut is taped to the bottom side of the plate). Install the base plate mount-ing screws firmly, but do not over-tighten. Again, tighten opposite screws as you go, lug-nut style (See step 8).

> Note: Penn supplies the four stainless steel base plate mounting screws.

10. The 622 Adjustable Swivel-Matic® Base rotates to any one of 36 different positions, providing a full circle (360 degrees) of rotation. To adjust, push one or more of the finger grips (shark fins) on the adjusting ring counterclockwise until it stops (about 1 inch). While holding the adjusting ring in this "adjust" position, turn the downrigger into the desired position. Release pressure on the adjusting ring, and the 622ASM will snap into that position. Remember, to turn and adjust the 622ASM, you must first push the adjusting ring counterclockwise until it stops.

11. After fishing with the 622 Adjustable Swivel Base, you may want to change the base's drag tension (rotates too easily or too hard). Remove the base plate and swivel base cover, and adjust lock nut, using a 3/4" socket or box wrench. The lock nut is located in the center of the swivel base top.

12. Although there should be no need to disassemble the 622 Adjustable Swivel-Matic™ Base, except perhaps for occasional internal maintenance and lubrication, you should use the exploded view as a guide. After removing the base plate and swivel base cover, remove the lock nut with a 3/4" socket or box wrench. Then lift off the entire swivel base top, locking ring, and adjusting ring. When removing the adjusting ring, be careful not to lose the two return springs.

During maintenance, make sure that all inside surfaces are clean and dry, then thoroughly lubricate the brass shaft in the center of the swivel base bottom with waterproof grease. Clean the two return springs and lubricate with a light oil.

In order to re-assemble the 622ASM, begin by installing the two return springs (Swivel-Matic Base key#5) into the two longer pockets, which are located opposite each other on the swivel base bottom.

Next, locate the small circular inden-tations on the swivel base bottom and adjusting ring. Line these indentations up, and carefully lower the adjusting ring onto the swivel base bottom.
While applying downward pressure, slowly rotate the adjusting ring clockwise until it drops fully into position. Check to be sure that the cam followers (raised bumps) on the adjusting ring are lined up with the vertical channels on the swivel base bottom.

Next, slide the serrated locking ring onto the swivel base bottom. Position is not important, as long as the teeth point up.

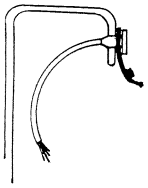
Look inside the swivel base top and make sure that the large white plastic washer is snapped in place. The notch on the washer should be lined up with the oval access hole on the swivel base top.

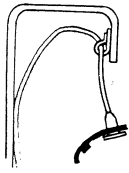
Carefully place the swivel base top onto the brass shaft, and secure with the lock nut and hardware. (Use the exploded view as a guide for correct installation of lock nut hardware.) Check that the 622 Adjustable Swivel-Matic™ Base is operating properly by pushing the adjustable ring counter-clockwise until reaching a positive stop. Holding that position, the swivel base top should rotate easily and quietly. Release the adjusting ring to return it to the locked position.

Before re-installing the swivel base cover and base plate, coat the base mounting screw threads and base plate nut threads with waterproof grease. When re-installing hardware, secure tightly, but be sure not to over tighten.

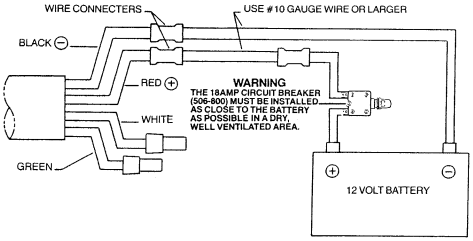
ELECTRICAL INSTALLATION FOR 805 AND 835

1. The lower power cable (key#50) can be mounted flush or can be left hanging loose. If mounted flush, drill a 1" (25.40mm) diameter hole. Use #8 round head or pan head bolts or screws. Do not use flat head bolts or screws, as they will distort the rubber socket. If using an#835 downrigger, be sure that the power outlet is lo-cated so that there is enough slack cable to allow a 180 degree swivel.





2. To connect the downrigger to the battery, use #10 gauge stranded copper wire or a larger size. The next larger size would be #8 gauge. The purpose of using heavy gauge wire is to avoid voltage drop. The more voltage reaching the motor means a quicker retrieve of the trolling weight. The longer the distance the battery is from the downrigger (actual wire length), the greater the voltage drop. If a

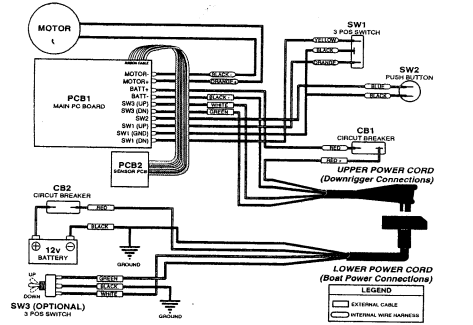


smaller wire than #10 gauge is used, the downrigger will give sluggish performance and the motor and electronics can be damaged. The actual wire length is the amount of wire run from the battery to the downrigger's lower power cord and back to the battery. If the total wire length exceeds 50 feet (15.24mm), use #8 gauge wire.

Note: Do not use solid conductor wire. The boat's vibration may eventually break it.

3. A 30 amp fuse or 18 amp circuit breaker must be installed as close to the battery as possible. The purpose of this fuse is to protect the wiring that *you* install and the external downrigger cable. The circuit breaker (key#42) on the downrigger only protects the wiring inside the unit. The battery fuse can be an in-line type, fuse block or circuit breaker. If a circuit breaker is used, make sure it can only be manually reset. The reason for this is that an automatic circuit breaker will cycle on and off if there is a short circuit in the wiring. Due to various methods boat manufacturers use to install battery wiring, Penn does not furnish a battery fuse or wire.

4. Each downrigger must have its own battery fuse or circuit breaker. Do not connect two or more downriggers to a common fuse. If the fuse blows or trips, you will not readily know which wiring system caused the problem. A single common fuse or circuit breaker may blow or trip if two or more downriggers are running at the

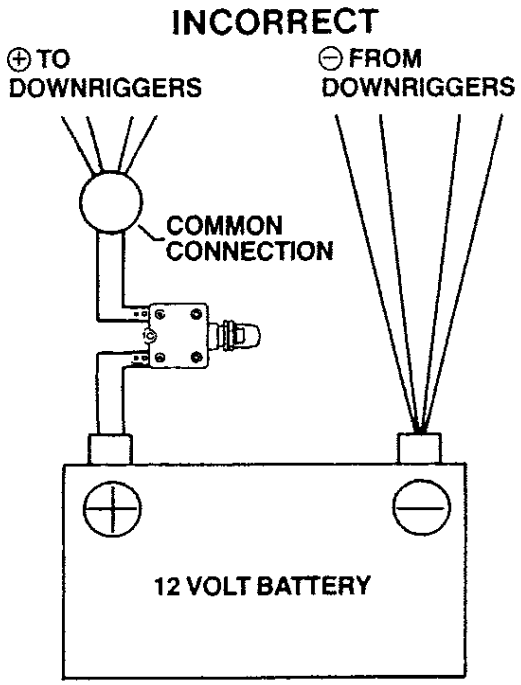


same time. The negative wires can be connected to a common terminal located near the battery and then connected to the battery with a larger size wire.

5. To connect your wiring from the battery to the red (+) and black (-) wires of the lower power cable (key#50), Penn suggests the following methods:

A. Insulated ring terminals of the proper size fastened together with short brass screws and nuts. Thoroughly insulate the terminals with electrical tape.

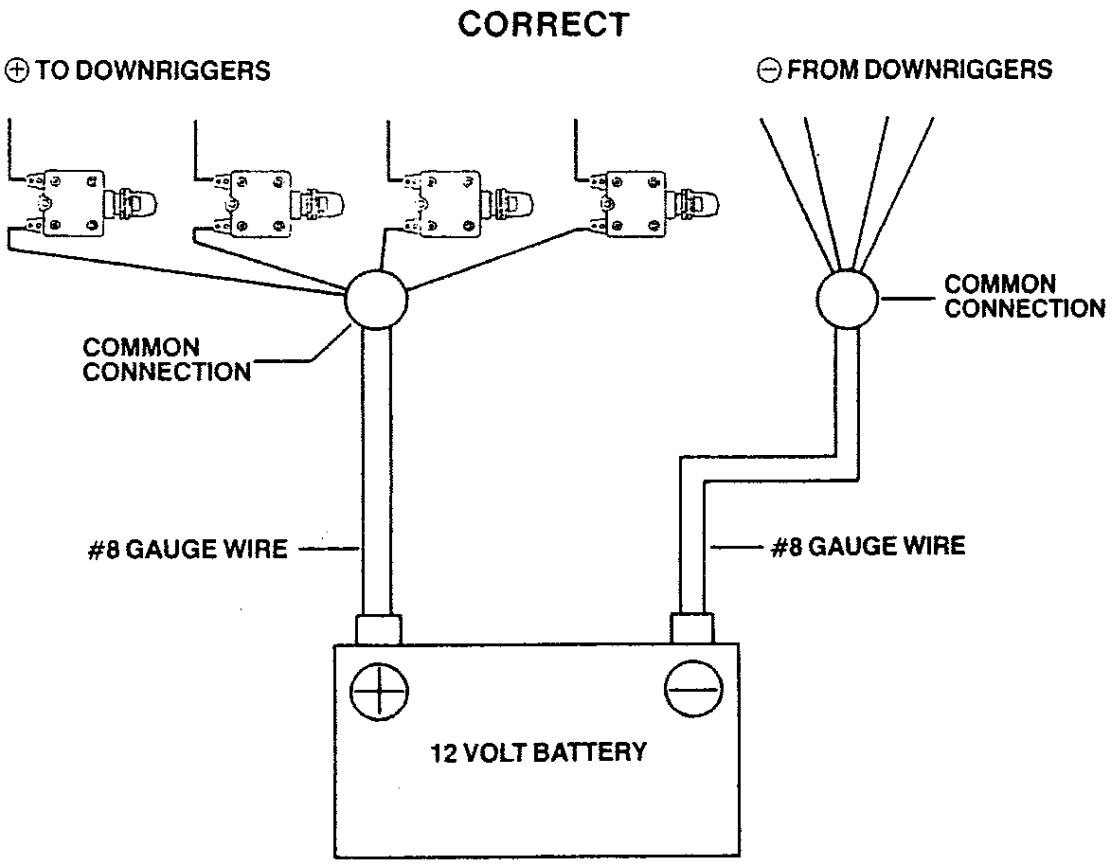
B. A marine grade terminal block (4 position) in a junction box.
NOTE: Use method "A" or "B" if you are going to use an optional remote control switch.



C. Insulated butt splices, wire joints, bullet connectors, tab connectors, etc. Be sure to use the proper size of connectors. Thoroughly insulate the connectors with electrical tape. Note: The use of wire nuts is not recommended.

6. The green (+) and white (-) wires go to an optional remote control kit. Do not remove the end caps, because the 2 wires will have electrical current in them when the downrigger is running.

All wire connections must be located in an area that is dry, especially if the boat is used in salt water.



MAINTENANCE

EXTERNAL MAINTENANCE

Your Fathom-Master® electric downrigger is constructed of the most durable materials available and is carefully assembled in the tradition of quality Penn Reel products.

Periodic servicing will assure trouble-free use and long product life.

1. After each day of use, *especially after saltwater fishing,* the downrigger should be thoroughly washed off with fresh water. All of the exposed metal parts, boom tip and especially the cable should be washed down thoroughly.
Suggestion: Use a fine gentle spray of fresh water to wash down your downrigger. Avoid forcing water into housing and damaging electrical components.
2. The prongs and sockets on the power cord and outlet cord should be washed off. After the prongs and sockets have dried off, spray some anti-corrosion oil on them and snap on the rubber cap.
3. If you lock your downrigger to the base, be sure to lubricate the lock, especially after saltwater fishing. If the lock is exposed to salt water spray, it may be necessary to lubricate the lock after every trip.
4. The switch and circuit breaker boots should be checked that they are not cracked or torn. If they are damaged, water will enter into the switch or circuit breaker; replace immediately.
Note: If the switch or circuit breaker is water damaged, the warranty is void.
5. The boom pulley and swivel assembly friction areas should be sprayed with anti-corrosion oil every few weeks.
6. The threaded portion of the hold-down knob (key#39) should be sprayed with anti-corrosion oil every few weeks.
7. Twice a year, before and after the fishing season, remove the boom screws (remove and replace one at a time) and coat the threads with water-proof grease. Put a light film of water-proof grease underneath the cable guide when you grease the boom stud screw.
8. Should your drag washers need replacement, disassemble drag by following the exploded view of drag components. By removing the retaining ring (key#1), the drag spacer (key#2), and drag control knob (key#3), you will have access to the drag washers. Normally only the drag washers themselves (key#7) will need replacement; be sure to re-assemble the drag system DRY. Do not lubricate, as Penn's drag system operates on a friction principle. To lubricate the drag would be like oiling the brakes on your car!
9. Occasionally remove the spool to expose the counter gears (key#'s11&17) and lightly lubricate the gear teeth with a good quality waterproof grease.
10. Occasionally lubricate the main sleeve (key#14) on the outside only where the spool rotates. Also lubricate the threads and two flat surfaces on the sleeve. A thin film of lubrication is best, and remember not to over lubricate.

INTERNAL LUBRICATION

The motor, gears and other internal parts on your Fathom-Master® Electric Downrigger have been lubed at the factory and require no additional lubrication.

The worm gear drive has been lubricated at the factory with a special high temperature, extreme pressure lubricant and should not require changing.

Penn recommends that any re-lubrication or repairs of the gear box be performed at a Penn service center or at the Penn factory.

HOW TO USE YOUR 805/835 FATHOM-MASTER®

PRE-TRIP CHECKOUT

Before each trip, check the overall operating condition of your electric downrigger. Make sure all screws are tight and moving parts are lubricated.

Pay particular attention to the condition of the cable, especially near the end. This is where 95 percent of the cable breaks occur.

If cable is kinked or frayed, remove that section and re-rig cable hardware. Kinks result in weakened cable and frays will never get better; if not promptly remedied, both conditions will eventually lead to a lost trolling weight.

Closely examine the condition of your cable hardware. A chain is only as strong as its weakest link; the same is true with your downrigger cable. The weakest link in this case is your cable hardware connection, so we cannot over-emphasize the importance of frequently checking your cable hardware.

Penn strongly recommends that you continue to use the Tru-Trac® cable hardware system already installed on your Electric Fathom-Master®. This system features a high strength polymer wedge to secure the cable into a cable hardware body. The Tru-Trac® system (Penn part #213-825SP) is easy to check and re-rig. When the wedge eventually wears out, replacement wedges are also available (Penn part # 290A-825SP).

TO THE FISHING GROUNDS

If you anticipate a long run or rough seas on the way out, you may want to consider keeping the units stowed until you reach the fishing area. Or you may prefer to mount your electric downrigger before you are under way.

Either way, begin by sliding the electric downrigger on to its base by pushing the unit until it hits the base's raised ridge. Then turn the hold-down knob clockwise until it

catches the nut in the base plate. Tighten until hand tight. Be careful not to over-tighten, because it may be hard to loosen the hold down knob later. However, *make absolutely sure* the hold down knob is tightened securely by hand. If you merely slide the unit in place and forget to tighten the knob, the electric downrigger could slide off its base while you are under way and you could lose the unit overboard. Remember, check your hold-down knob!

Either keep your trolling weights stowed until you are ready for deep trolling or if you prefer, attach the trolling weight to the cable hardware's snap swivel. Loosen the drag and place the trolling weight on the cockpit deck to prevent it from falling any farther.

Whether you head out for the fishing grounds with or without the trolling weight attached to the unit, always keep sufficient drag tension to prevent the weight from rolling or the cable from coming off.

Do not attempt to mount the electric downrigger with the weight already on the unit. Damage to the hold down knob can occur, and besides, mounting a downrigger with a weight is just too unwieldy; you may lose everything overboard. Take your time and take it easy.

If you are traveling with your electric downriggers already mounted, remember to provide extra clearance for the booms when docking, trailering, etc.

SETTING UP

When you are ready to go deep trolling with your electric Fathom-Master™, hold the attached trolling weight near the boom tip. (If you have an 835, swing the boom inboard to rig up the weight. If you have an 805, you can reach overboard to rig up the weight.) Make sure the cable is not fouled and wind in any slack cable. Tighten the drag to make sure there's sufficient tension to prevent the accidental descending of the trolling weight.

Pay out the desired length of line/lure from your fishing reel; then attach the fishing line to the trolling weight's release mechanism.

The fishing reel should be in free spool with the click engaged or the spool can be kept engaged with a very light drag setting. Both actions will prevent the reel's spool from over-running while the weight/lure is descending.

The length of fishing line let out, leader length, lures, attractors, trolling depth, etc. will vary with different locales and fish species. Since this is local information, check with area tackle shops and fishermen for advice. An approximate 50 feet distance from weight/release to lure is a good distance to start with in water 30 to 100 feet deep. In deeper water, use less distance.

Penn's 10 lb. cannonball is a general trolling weight. Weights heavier than 10 lbs. may be used on Penn Fathom-Master® electric downriggers, but they should not exceed 14 lbs.

OPERATING YOUR PENN 805/835 ELECTRIC DOWNRIGGER

Penn's 805 and 835 Electric Fathom-Master® downriggers feature operating controls are refreshingly simple to use. Two buttons – an up/down switch and "set" button – are all you need to work these downriggers. Take a few moments to read through these instructions before operating your unit.

After securing your downrigger in its trolling position, and BEFORE CONNECTING THE POWER, YOU MUST SET ITS MECHANICAL "ZERO". Using the downrigger's drag, lower the weight about 10" – 12" below the boom tip. This will be a convenient position for rigging the weight. Tighten the drag to prevent the weight from descending any more. Now rotate the downrigger's counter cup to zero.

Plug the unit in to your boat's power supply. You will hear three short beeps. This indicates that power is going to your unit. Your unit is also electronically set to a "zero" point (10"-12" below boom tip for rigging).

Setting your zero point just below the boom tip allows you to raise the weight up from your last waypoint, which should be in about one to two feet in the water. That way, when your weight is ascending, the last waypoint will stop the weight just below the surface of the water, preventing the weight from swinging and hitting your boat, especially in rough seas. Then you can raise the weight up to the mechanical zero point when you're ready for rigging the weight. When the weight reaches the zero point, you will hear one long continuous beep. To stop this beep, briefly push the switch down or up.

Get familiar with the up/down switch. To lower the weight, push the switch down. The switch will auto-matically toggle to the middle (neutral) position as the weight descends. To stop the weight at the desired depth, push the switch up. The switch will then toggle back to the middle (neutral) position.

To raise the weight, push the switch up. Again, the switch will toggle back to neutral, but the weight will continue to rise. Either push the switch down to stop the weight's ascent, or let it rise to the zero (rigging position) you had set right below the boom tip. Again, should you let the weight rise to the "zero" or rigging position, you'll hear one long continuous beep when the weight's ascent stops. To stop this beep, briefly push the switch down or up.

Remember, to stop the weight from either going up or down, push the switch in the opposite direction to stop. The switch will automatically toggle back to the middle or neutral position.

SETTING DEPTH WAYPOINTS

Push the up/down switch up or down to stop the weight's descent or ascent when you reach the desired depth. Push and release the set button. You will hear one short beep, confirming the depth waypoint is set.

To set additional waypoints, repeat above step. Each time, you will hear one short beep, confirming the setting. A total of ten depth waypoints can be set. Remember to set your most shallow waypoint a foot or so below the water's surface, as described above, so that you can then raise the weight up to the correct position for rigging.

NOTE: Do not program depth waypoints within one feet of each other. They will cancel each other out. For example, if you set a depth waypoint of 50 feet, then set another at 51 feet, you will wipe out both waypoints. Try to separate depth waypoints by at least a couple of feet.

CLEARING DEPTH WAYPOINTS

Lower or raise the downrigger weight to the waypoint you want to clear. You will hear one short beep, indicating that the weight has reached the waypoint. Push the set button, and then release it. You will then hear two short beeps, indicating that the waypoint has cleared.

NOTE: A quick way to clear all waypoints, including the zero point, is to unplug and then re-plug the unit. If you do this, be sure to set your zero point as detailed above.

Another way to clear all waypoints, and to quickly re-set the zero point, is to raise the weight to the zero point and after the one long continuous beep, push the up/down switch to the up position. Then push the set button in, and keeping it depressed, push the up/down switch to the up position. Release and then push the set button again, and you will hear three short beeps, indicating a re-set zero or rigging point. Remember, all other depth waypoints are now cleared, so you will need to re-set any you want.

MANUAL OR "JOG" MODE

To activate the manual or "jog" mode of your Electric Fathom-Master® downrigger, push the set button in, and keeping it depressed, push the up/down switch to the up position. You can do this when your weight is at any depth. Now you can toggle up or down in this mode, but you will need to keep your finger on the switch when raising or lowering the weight. To stop the weight's descent or ascent, take your finger off the switch. There will be no beeper sounds in this mode.

NOTE: By switching to the manual or jog mode, all depth waypoints, including the zero/rigging waypoint, will be wiped out and you cannot set any waypoints. Follow instructions above for re-setting your zero or rigging waypoint (i.e. , unplug and re-plug unit).

REVIEW OF BEEPER SOUNDS

One long continuous BEEP indicates weight has reached the zero point.

One short BEEP indicates the way-point is set.

Two short BEEPS indicate waypoint is cleared.

Three short BEEPS indicate power is going to downrigger unit or new zero/ rigging point is re-set.

NOTE: Use only current 805/835 spools with the 805/835 Electric Fathom-Master® downriggers. If you install spools from any previous generation electric or manual Fathom-Masters®, they do not contain the necessary components to operate the units.

LOWERING WEIGHT / LURE

To lower the weight/lure, push the up/down switch to "down." While the weight/lure is descending, check that the fishing line, cable, etc., is paying out smoothly and that there are no tangles. If there are any tangles, stop the descent immediately, and correct the situation.

Once you reach the desired depth, stop the descent by pushing the switch up.

You can also lower the weight/lure manually by releasing the tension on the drag knob. Slowly turn the drag knob counter-clockwise for less tension, clockwise for more tension. When you reach the desired depth, stop the descent by increasing the drag tension. Just use sufficient drag to keep the downrigger's spool from turning while trolling. Wind excess line back onto the fishing reel until the rod tip bows downward.

Never keep the drag knob too tight while deep trolling with the electric downrigger. The Fathom-Master® drag operates much the same as the drag on a fishing reel. If the trolling weight should snag on the bottom or some obstruction, the drag will slip and pay out cable. This allows the boat operator time to stop the boat and retrieve the trolling weight.

If you snag with an over-tight drag, you could break the cable or damage the boom or electric downrigger unit. Keep an eye on the red dots on the downrigger spool; their purpose is to verify that the downrigger spool is not moving while deep trolling. If it is, you're snagged on to something!

The boat operator must employ the same tricks as a fisherman with a snagged lure when trying to remove a snagged trolling weight. Usually a gentle turn of the boat and a pull in the opposite direction (or going in reverse if cable clearance is adequate) will retrieve the weight. Raise other downrigger weights before trying to remove the snag.

Being gentle and exercising finesse while trying to fish out a snagged weight will do more than brute force. Never use the electric switch to try retrieving the trolling weight. Such abuse will void the warranty should any problems with the electric down-rigger occur.

Instead, grab the cable with your hand and start working the weight loose. Do not wrap the cable in your hand, as injury may result. Should the boat lurch, let go

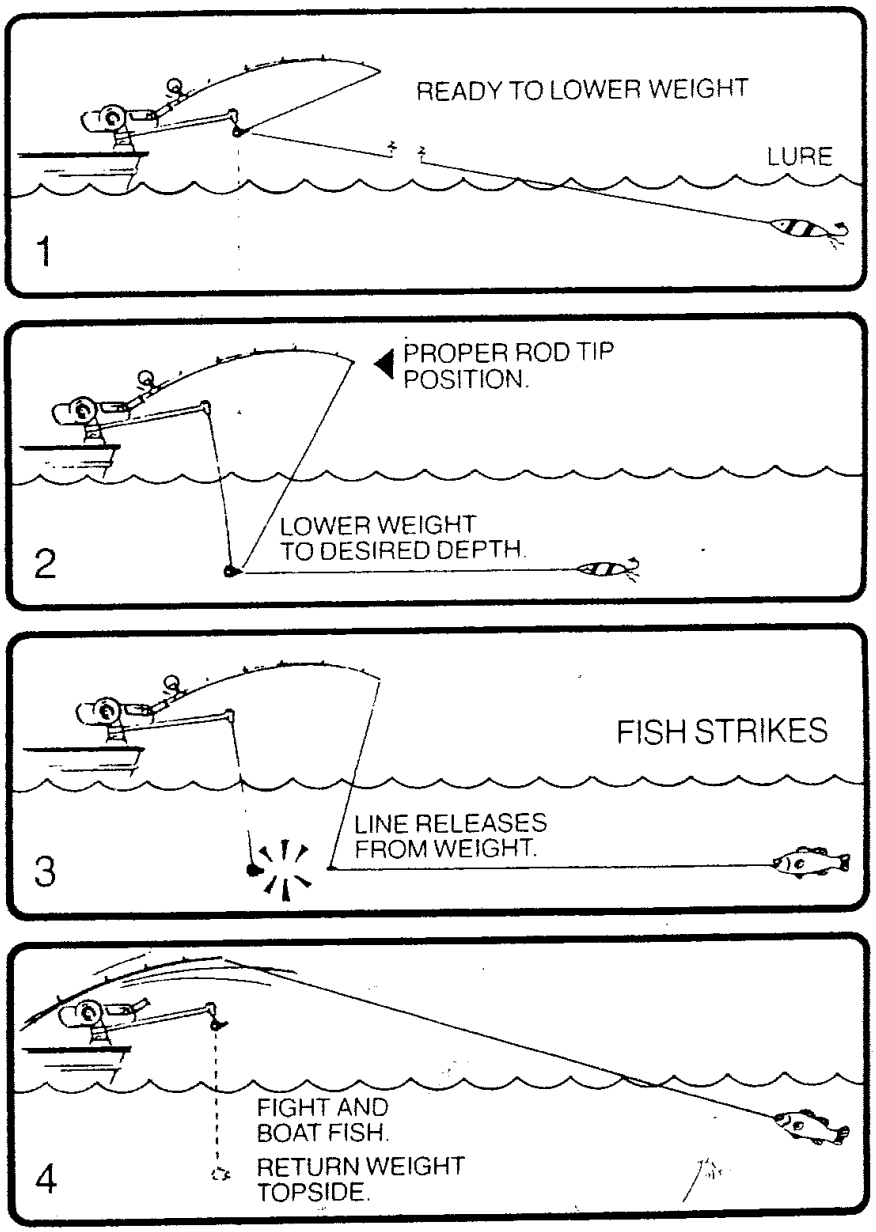
instantly and let the Fathom-Master™ drag pay out additional cable.

Fishing out a snagged weight is usually not much of a problem if you're calm and systematic and everyone on the boat operates as a team.

Penn recommends raising the weight by manually turning the spool once the weight is free of the snag, just in case you're not really free of the snag or you wind up bringing part of the bottom up with the weight! Turn the spool hand-over-hand until the weight is topside. Be sure to carefully check the cable, weight and hardware before you resume deep trolling.

If you desire, you could drill a 1/4" hole on the spool flange (opposite the frame) and keep handy a short length of stout rope to use as an emergency handle. In case of a power outage, insert the rope through the hole, loop and tie it off. Hold onto the rope, loosen the drag and crank the weight topside. You can actually continue to fish this way, but be extremely cautious. Always hold onto your emergency rope before loosening the drag to lower or raise the weight, and always exercise extreme caution. Penn assumes no responsibility for those making this modification.

When a fish strikes, the rod will dip up, because the fish has tripped the trolling weight's release mechanism and has released the rod's downward bow. Remember to put the fishing reel in gear or tighten up the fishing reel's drag if necessary. Also, pushing the clicker off will save wear on the reel's clicker.



DEEP TROLLING

Instructions on adjusting the trolling weight's release mechanism should be included with the release. Penn's Offshore Release System (Penn part # 354-POR1) features spring loaded rubber pads to firmly hold your fishing line, yet allows a positive release once a fish strikes. The pads won't pinch or damage line, either. The Offshore Release System adjusts to all kinds of deep trolling conditions, from lake trolling for trout to ocean trolling for giant tuna. Usually a release is too loose when you get a "false" trip: the release trips, but there's no fish on. The release is too tight if your line breaks after a large fish strikes, or if you're dragging and "drowning" small fish after the strike.

That's one reason to frequently check your lures while deep trolling. You should also be checking to make sure lures are not fouled, that they are swimming properly, the leader's not fouled, etc.

Once a fish strikes and trips the re-lease, simply push the electric down-rigger's switch to "up". The trolling weight will rise to the surface. Where it will stop depends on where you program the adjustable automatic shut-off.

Determining the depth of your trolling weight, unless you can pick it up on your recorder, is an educated guess, because you have to take into account the angle of the cable while deep trolling. Sometimes the length of cable from your boom tip to the water's surface will cancel out the two or three-foot rise of the weight caused by the angle of the cable. Most of the time your approximation of the depth of your trolling weight will be in the "ball park," and experience will make you more accurate in your estimations. Still exercise caution, though, when you are trolling close to the bottom or structure.

AFTER THE TRIP

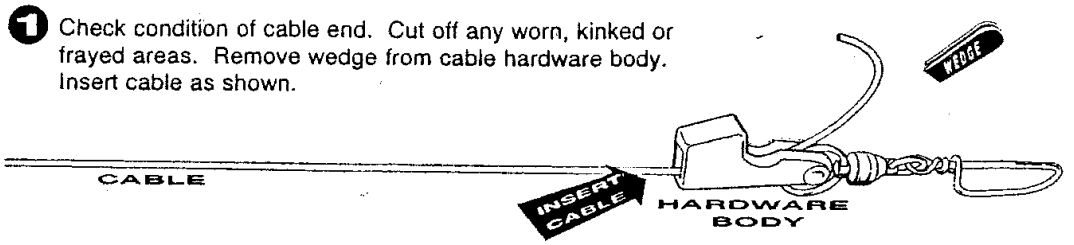
Follow the same precautions outlined in "Pre-Trip Checkout", "On the Way to the Fishing Grounds", "Setting Up", etc. Before reaching the dock or launching ramp, it's a good idea to remove the electric downrigger unit from its base so the boom or unit won't catch any pilings, bulkheads, etc.

Your Fathom-Master® Electric downrigger disassembles for easy, compact long-term storage. Remove the boom screw (key#18), pull the boom from the unit and replace the screw. To break the boom down, remove (then replace) the lower screws holding the boom studs in place. Wind in excess cable. Insert the boom tip between the bottom of the spool and the frame and secure the cable by looping it over the spool and trapping the cable hard-ware's snap through the boom screw. Wind in any excess cable and tighten the drag slightly.

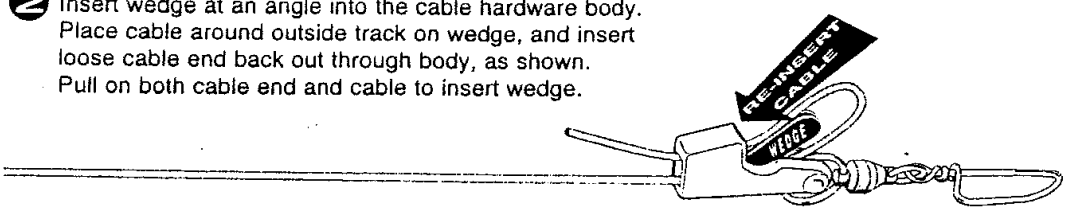
Extra fixed base plates (see accesso-ries) are great for storing your Penn Fathom-Master® Electric downriggers in safe, out-of-the way spots (basement, shed or garage wall, etc.).

Attaching Cable Hardware

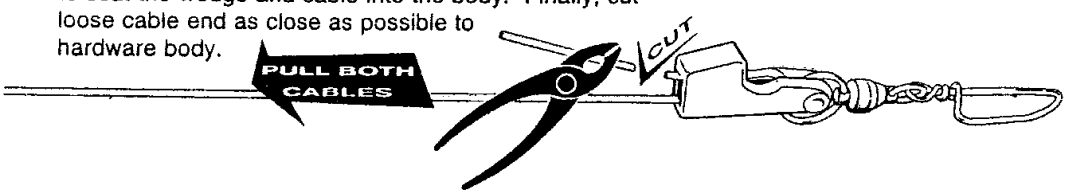
1. Check condition of cable end. Cut off any worn, kinked or frayed areas. Remove wedge from cable hardware body. Insert cable as shown.



2. Insert wedge at an angle into the cable hardware body. Place cable around outside track on wedge, and insert loose cable end back out through body, as shown. Pull on both cable end and cable to insert wedge.



3. Hold both cable end and cable with a pair of regular pliers. Pull on both cables while holding the cable hardware body to seat the wedge and cable into the body. Finally, cut loose cable end as close as possible to hardware body.



Penn Tips For Better Deep Trolling

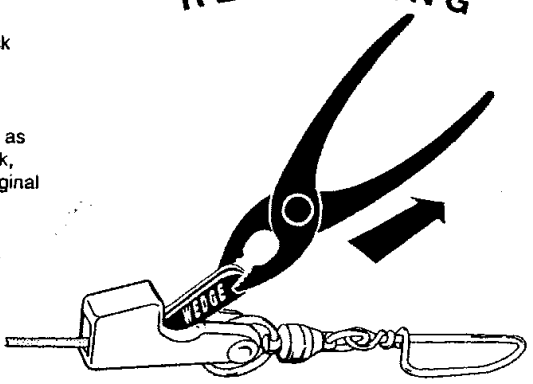
•Inspect cable often, especially near the cable hardware end, since this is where cable wears the fastest. **Immediately** replace any worn, kinked or frayed cable by cutting back and re-rigging your cable.

•To remove wedge for re-rigging your Penn Tru-Trac® cable hardware, pull hard on the bottom of the wedge with pliers, **as shown.** The pliers will chew the wedge up a bit, but as long as the track is not too chewed up, and the cable lays snug around the wedge's track, you can re-use the wedge. Six-packs of replacement wedges are available once the original wedge becomes too chewed up.

•Do not run cable over a hard surface with weight attached, or do not bend cable over on itself. Both will result in kinks, which weaken cable.

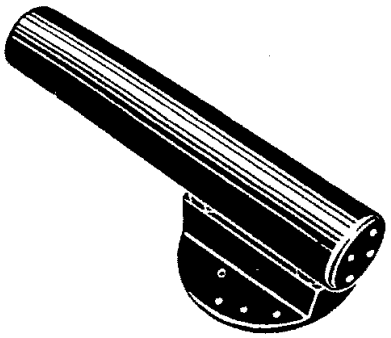
•If you're fishing close to bottom or in a snag-infested area, you could attach a weaker snap swivel to the 200 lb. test Sampo® ball bearing swivel already attached to your Penn Tru-Trac® cable hardware. Doing that, if your weight snags and you can't free it, the weaker snap swivel will break first. At least you will most likely save the cable hardware, fishing lure, etc. ***Good downrigger fishing!***

RE-RIGGING



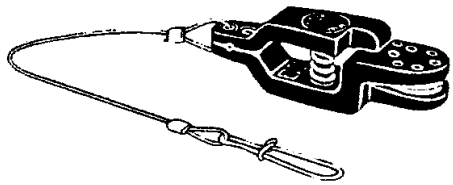
Penn Electric Fathom-Master® Downrigger Accessories

These made-in-USA accessories will allow you to customize your Penn Electric Fathom-Master® downrigger to your boat and to your particular style of deep trolling. See your Penn dealer for more information on these accessories.



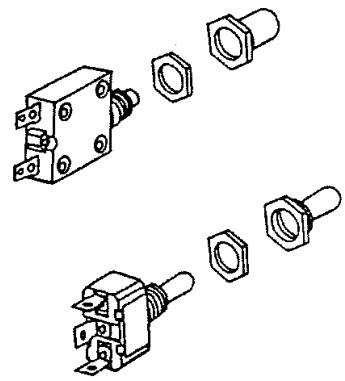
Electric Fathom-Master® Rod Holder

A rugged screw-on rod holder, designed especially for the 805 and 835 Electric Fathom-Master® downriggers. Features an adjustable 3 position rod holder. Includes heavy duty stainless steel hardware.
Product # 810RH.



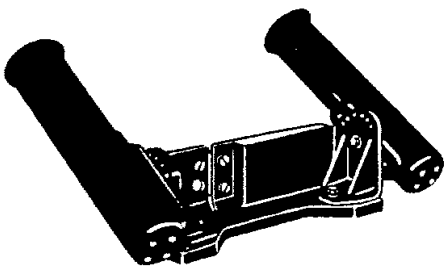
Penn's Offshore Release System

Uses spring loaded rubber pads to firmly hold line without damaging, flattening or pinching line. Allows for positive releases when fish strike. Adjustable to a wide range of settings, lures and baits. Attaches to FathomTrol® and other popular weights. Durable and corrosion resistant.
Product # 354-POR1.



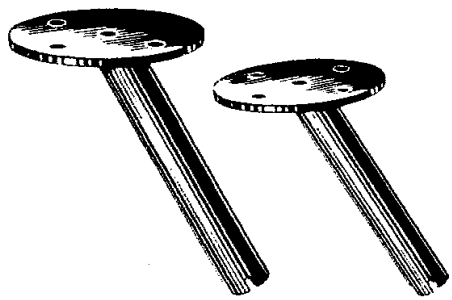
Remote Switch Kit

This kit permits you to operate your electric downrigger from a switch at a remote location (bridge, console, etc.) without losing the function of the switch already in the downrigger. The remote kit includes a high quality toggle switch that automatically returns to the neutral position after moving it to the up or down position. The switch also comes with a waterproof toggle boot to prevent water from entering and damaging the switch.
Also included is a manually resettable circuit breaker of 18 amp capacity. Comes with a waterproof boot to keep moisture from entering the breaker.
Product # 520-825SP.



Electric Fathom-Master® Dual Rod Holder

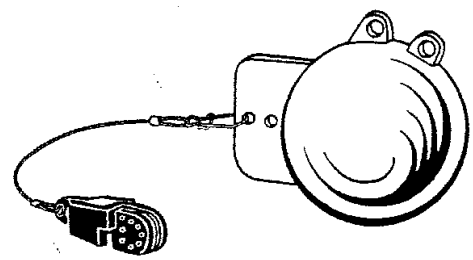
A sturdy dual rod holder that allows individual adjustment of each rod holder. Rod holders can be angled vertically in three positions and horizontally in three positions. Includes heavy duty stainless steel mounting hardware.
Product # 815DRH



Quick-Mount® Sr. and Quick-Mount® Jr.

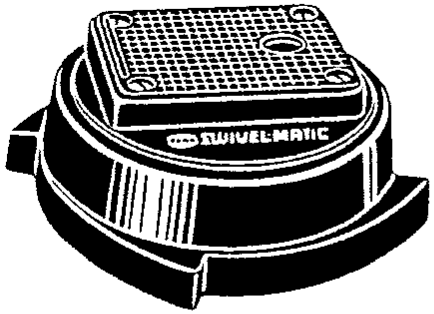
Quick-Mount adapters for instant mounting of Penn downriggers using your boat's existing flush mount rod holders. Two sizes to fit both standard and large rod holders. Heavy duty, marine grade anodized aluminum.
Product #634 – Sr., 12" long, 1-1/16" O.D.

Product #632 – Jr., 9" long, 1-1/2 " O.D.



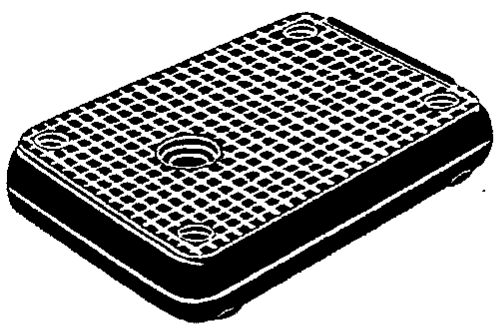
FathomTrol® Downrigger Weight

Rounded 10 lb. weight has flat bottom to resist rolling and choice of two lugs for attaching downrigger cable. Use the forward for standard trolling; use the rear lug for high speed trolling. Weight has pre-drilled holes in rear stabilizer for attaching Penn's Offshore Release, which is included with the weight.
Product #10W.



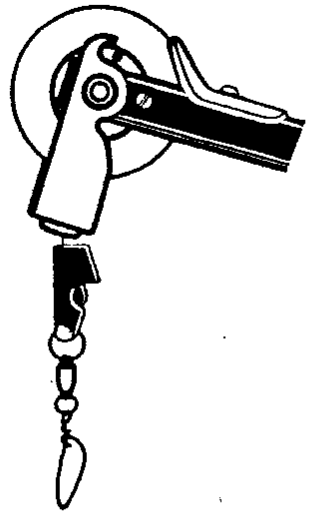
Adjustable Swivel-Matic® Base

Complete 360 degree rotation allows for 36 different downrigger positions. Mount on transom or gunnel. For all Penn Fathom-Master® models.
Product #622ASM.



Fathom-Master Fixed Base Plate

Base plate for all Fathom-Master® models. Heavy duty stainless steel mounting hardware included. Can be used to store downriggers out of the way when not in use (garage, shed walls, overhead areas, basement, etc.).
Product # 133C-600SP.

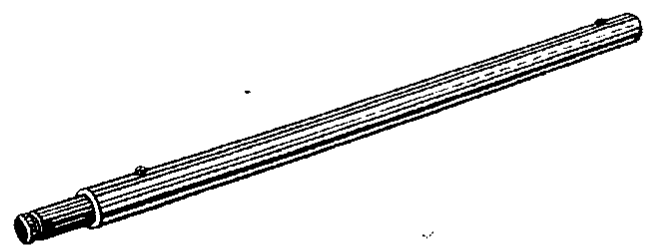


Penn Tru-Trac® Cable Hardware

Durable cable hardware kit uses a high strength polymer wedge and cable hardware body to keep cable and weight securely attached. Easy to install, check and re-rig. Requires no crimping tool or sleeves, and can be used over and over again. Cable wedge lasts long, but when it does eventually wear, replacement wedges are available.
Product # 213-825SP
(Complete kit, including hardware body, 200 lb.test Sampo® ball bearing swivel, cable wedge).
Product # 290A-825SP
(6 Replacement Wedges).

Penn Fathom-Master® Cable

Replacement cable for all Fathom-Masters® and other popular downrigger models. Highest quality stranded stainless steel 135 lb.test cable. Complete with cable hardware.
Product #212-600SP (200 ft.).
Product #212-624SP (400 ft.).
Product #212-626SP (600 ft.).



Boom Extension Kit

Boom extension, plus screws and insert. Converts 24" boom to 48" boom. Constructed of heavy wall, marine grade anodized aluminum.
Product #638.

LIMITED WARRANTY

Penn Fishing Tackle Mfg. Co. warrants your Fathom-Master* electric downrigger to be free from defects for a period of one year from the date of purchase. This warranty does not cover damage or malfunctions caused by accident, abuse or normal expected wear.

If your downrigger has a defect within terms of the warranty, you should return it to us insured at the address below. Be sure to include a note explaining the problem and a copy of the dated sales receipt from the store where you purchased the unit. *To avoid error be that your name, address and note is clearly and neatly printed.* Please include your telephone number and area code. Unless the boom is in question, there is no need to return the boom with the unit. This will make shipping easier.

We will repair or replace your Fathom-Master* electric downrigger, at our option, without further cost to you. If, however, we determine after inspection that the repair is not covered by provisions of this warranty, we will notify you. Upon your instructions, we will return your downrigger, (postage must be prepaid) or repair your downrigger. If you choose to have your downrigger repaired it will be returned to you at a reasonable charge for parts, labor and return postage. The repair costs and postage must be prepaid.

Loss of trolling weight, cable, snap swivel and related items is not covered by warranty. The warranty will not apply if the motor armature windings show evidence of overheating and shorting out due to overloading the downrigger. Spool breakage due to use of monofilament line on downrigger spool is not covered by warranty. Using the electric downrigger for commercial fishing will void the warranty. Exercise reasonable care and caution while operating your Fathom-Master* electric downrigger and follow the instructions in this owner's manual to avoid the above situations. If a remote control switch or circuit breaker other than the one Penn offers is used, the warranty on the electric downrigger is void.

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

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

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

IF SERVICE IS REQUIRED AFTER WARRANTY EXPIRES

Your local Penn dealer can provide fast and convenient service for your Fathom-Master® electric downrigger. You may also return it to Penn for service at the address below. Send it insured and include a short not stating what needs servicing. *To avoid error, make sure that your name and address appear neatly and clearly on both your note and outside the package.* Unless the boom needs servicing, do not send it with the unit. Doing that will make shipping easier. Penn will notify you of the repair costs and shipping charge. Send in your remittance for your downrigger to be repaired. (Do not send cash.) You can also request MasterCard or Visa payment. Please provide card type, name on the card, account number, expiration date and daytime telephone number, when sending in your downrigger. Allow three to six weeks, depending upon the season, before your downrigger is returned.

PENN FISHING TACKLE MFG. CO.
Downrigger Parts Department
3028 W. Hunting Park Ave.
Philadelphia, PA 19132

Penn Fishing Tackle Mfg. Co, reserves the right to discontinue models and accessories and make changes in prices or specifications without notice. Penn's policy of ongoing research may necessitate design changes to bring about a product improvement.

PENN REELS®

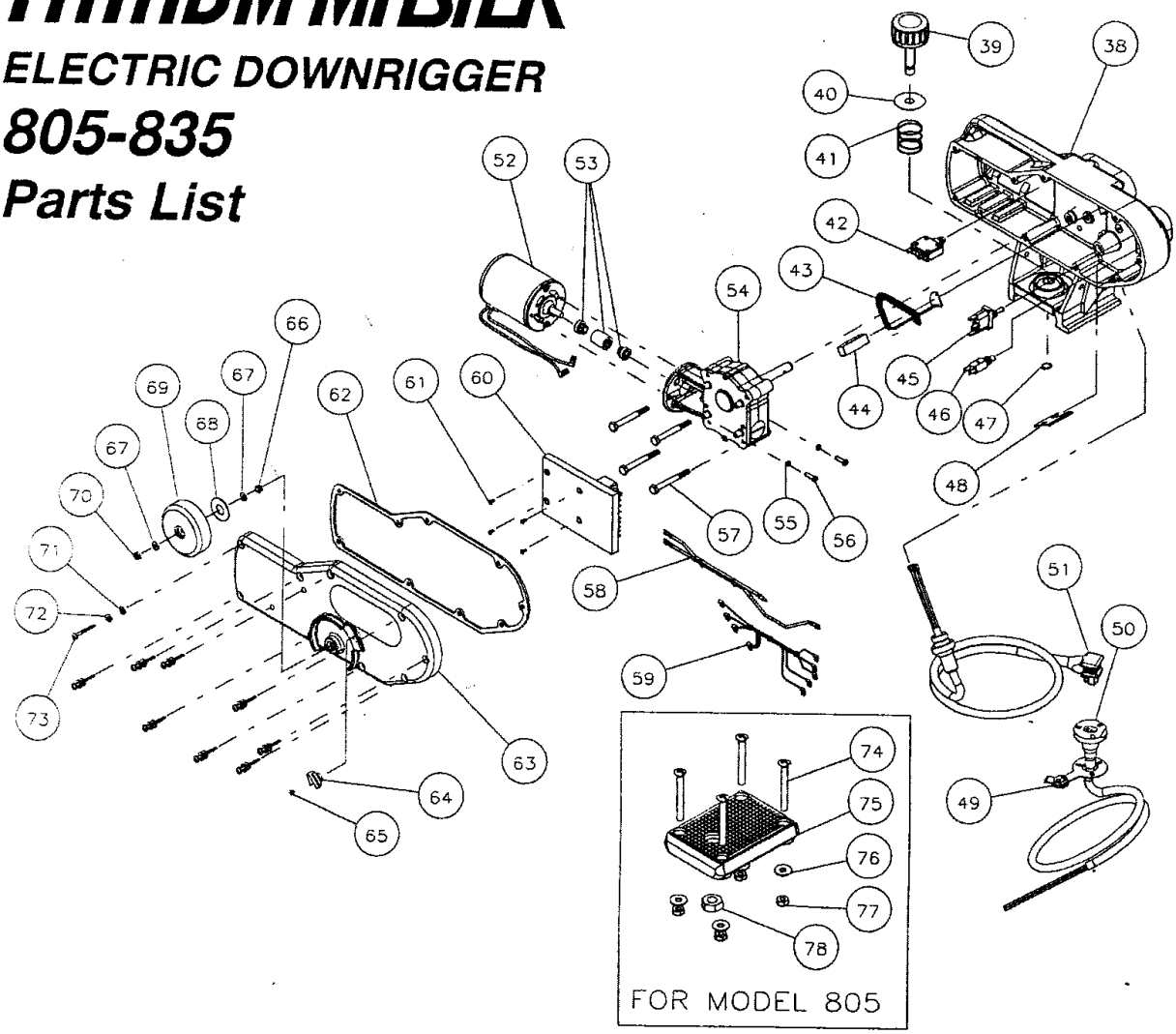
LEFT SIDE FRAME ASSEMBLY FOR MODELS 805 AND 835

FATHOM-MASTER®

ELECTRIC DOWNRIGGER

805-835

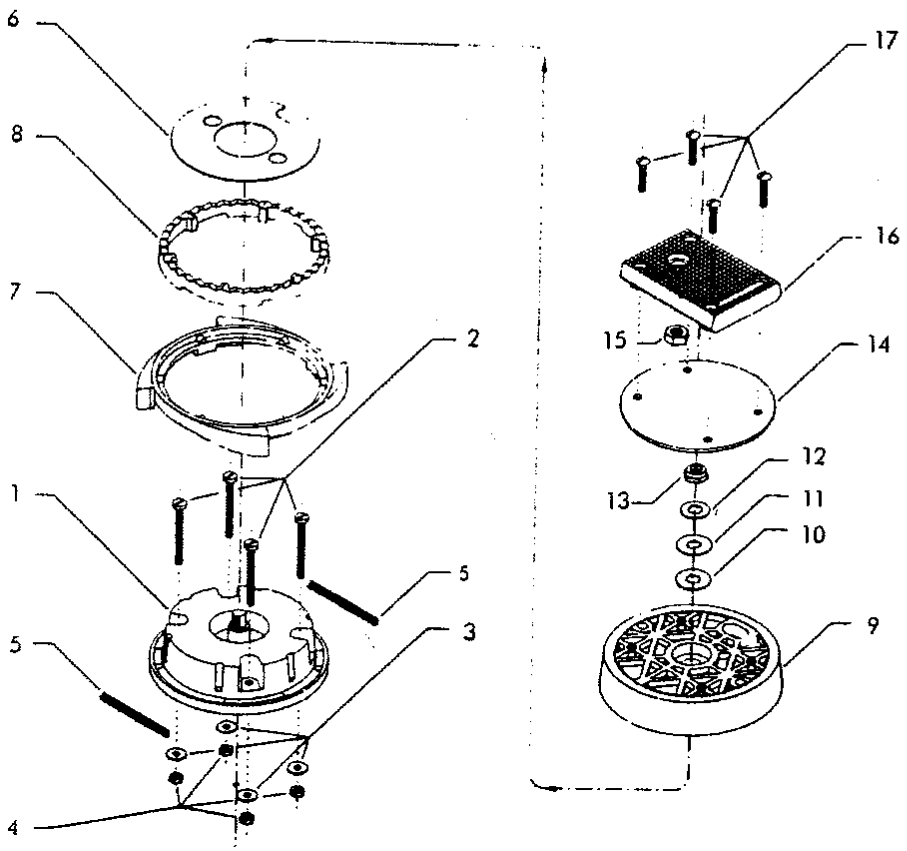
Parts List



Key No.	Description	Part No.
38	Frame w/Bearing & Seals	132 805
39	Hold Down Knob	184 600
40	Hold Down Knob Washer	206 600
41	Hold Down Knob Spring	192 600
42	Fuse Circuit Breaker	506 800
43	Sensor Switch Asm	507A805
44	Sensor Switch Spacer	507B805
45	Switch (Up & Down)	503 825
46	Push Button	503 805
47	Hold Down Retaining Ring	195 600
48	Power Cable Clip	203 800
49	Lower Power Cable Cap	531 800
50	Power Cable (Lower)	532 800
51	Power Cable (Upper)	530 800
52	Motor	501 805
53	Motor Shaft Coupling	119 800
54	Gear Box Complete	156 805
55	Lock Washer (2)	220 805
56	Mounting Screw (2)	032 800
57	Gear Box Mounting Screw (4)	209 805

Key No.	Description	Part No.
58	Wiring Harness (Breaker)	515A805
59	Wiring Harness (Switch)	515 805
60	P.C. Driver Board	507 805
61	P.C Mounting Screw	046A704
62	Frame Gasket	264 800
63	Frame Cover	227 805
64	Indicator Bracket	181A800
65	Indicator Bracket Screw	063 349
66	Counter Cup Shaft Seal	247 800
67	Counter Cup Thrust Washer (2)	247 620
68	Counter Cup Washer	190P600
69	Counter Cup	181 600
70	Counter Cup Lock Nut	200 600
71	Rubber Washers (9)	220 800
72	Flat Washer (9)	205 800
73	Cover Mounting Screw (9)	063 800
74	Base Plate Mounting Screw (4)	209 600
75	Base Plate	133 600
76	Base Plate Washer (4)	220 600
77	Base Plate Nut (4)	211 600
78	Base Plate Large Nut	193 600

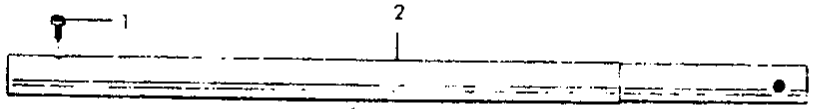
622 SWIVEL-MATIC BASE



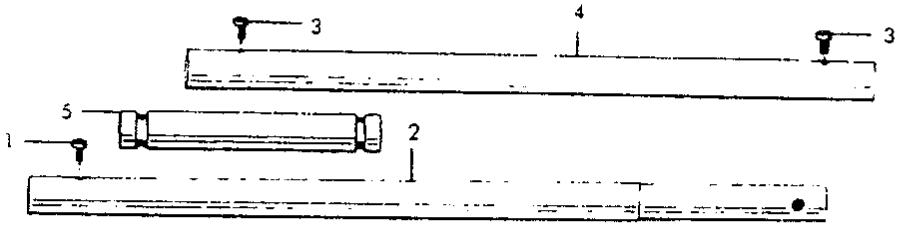
KEY NO.	DESCRIPTION	PART NO.
1	SWIVEL BASE BOTTOM	238-622
2	SWIVEL BASE MOUNTING SCREW (4)	250-620
3	MOUNTING SCREW WASHER (4)	220-600
4	MOUNTING SCREW NUT (4)	211-600
5	RETURN SPRING (2)	14-622
6	SWIVEL BASE WASHER	240-622
7	ADJUSTING RING	238A-622
8	LOCKING RING	237A-622
9	SWIVEL BASE TOP	237-622
10	SWIVEL DRAG WASHER	249-620
11	METAL DRAG WASHER	241-620
12	TENSION WASHER	18-970
13	LOCK NUT	23-130
14	SWIVEL BASE COVER	239-620
15	BASE PLATE NUT	193-600
16	BASE PLATE	133-600
17	BASE PLATE MOUNTING SCREW (4)	209-620
	BASE PLATE COMPLETE	**133-600SPD**
3	MOUNTING SCREEN WASHER (4)	220-600
4	MOUNTING SCREEN NUT (4)	211-600
15	BASE PLATE NUT	193-600
16	BASE PLATE	133-600
17	BASE PLATE MOUNTING SCREW (4)	209-620

BOOM EXTENSION

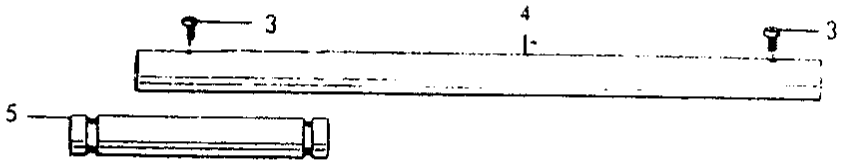
BOOM BOTTOM (24 INCH)



BOOM COMPLETE (48 INCH)



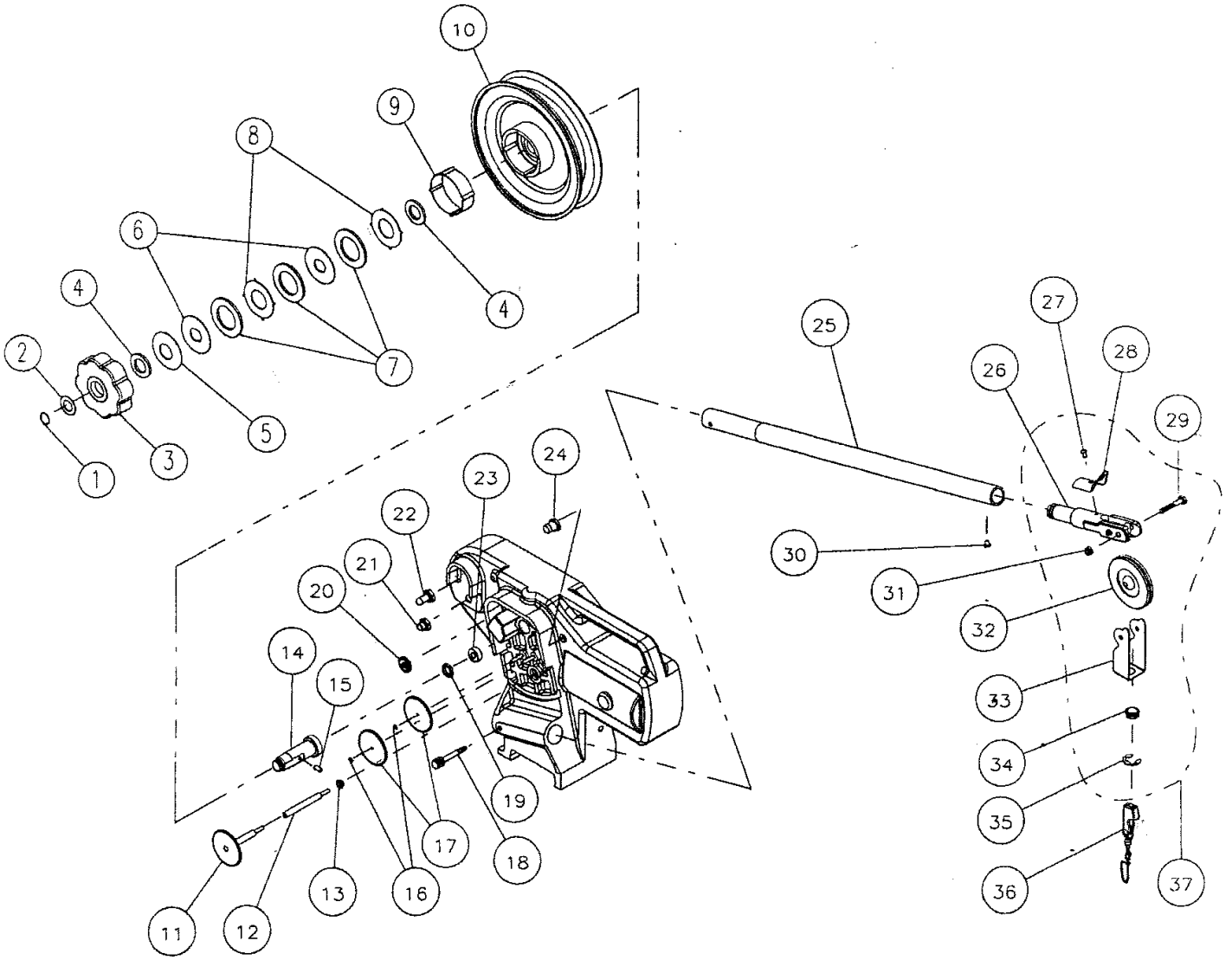
BOOM EXTENSION (FOR 24 INCH BOOM BOTTOM)



KEY NO.	DESCRIPTION	PART NO.
1	BOOM TIP SCREW	204P-600
2	BOOM BOTTOM	183-800
3	BOOM EXTENSION SCREW (2)	204P-820
4	BOOM EXTENSION	183-820
5	BOOM STUD (CENTER)	219-820

PENN REELS®

RIGHT SIDE FRAME ASSEMBLY FOR MODELS 805 AND 835



Key No.	Description	Part No.
1	Main Shaft Retaining Ring	195 800
2	Star Drag Spacer	009 800
3	Drag Control Knob	010 600
4	Insulating Washer (2 req.)	199P600
5	Tension Washer	008 600
6	Key Washer (2 req.)	086 600
7	Drag Washer (3 req.)	006P600
8	Ear Washer (2 req.)	007 836
9	Thermal Insulator	191 836
10	Spool	029 805
11	Counter Cup Gear	179 600
12	Counter Cup Shaft	188 600
13	Counter Cup Shaft Seal	247 800
14	Main Sleeve	098 800
15	Main Sleeve Pin	102 800
16	Idler Gear Retaining Ring (2 req.)	069B600
17	Idler Gear (2 req.)	178 600
18	Boom Screw	194 600

Key No.	Description	Part No.
19	Main Shaft Seal	245 800
20	Frame Vent Seal	247 805
21	Push Button Boot	504 805
22	Switch Boot	504 800
23	Frame Bearing	147A800
24	Fuse Boot	505 800
25	Boom Bottom	183 800
26	Boom Tip	218 800
27	Line Guide Screw	204R820
28	Line Guide	223 836
29	Boom Pulley Screw	182 800
30	Boom Tip Screw	204P600
31	Boom Pulley Nut	208 815
32	Boom Pulley	180 600
33	Line Guide Bracket	201 620
34	Line Guide Sleeve	202 600
35	Sleeve Retaining Ring	203 600
36	Cable Hardware (Complete)	213 600SPD
37	Boom Tip (Complete)	218C820SPD

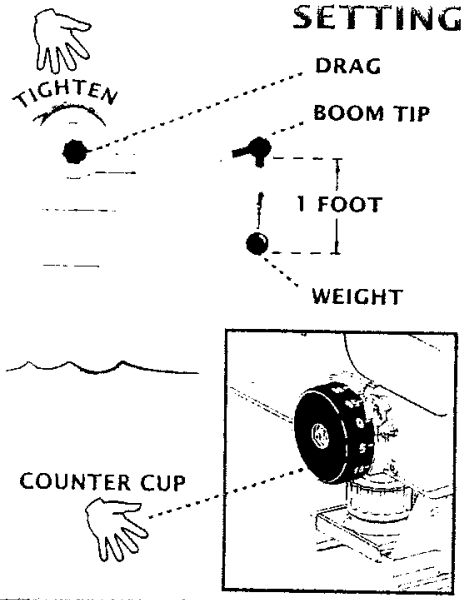
QUICK REFERENCE CARD

PENN FATHOM-MASTER®

OPERATING YOUR PENN 805/835 ELECTRIC DOWNRIGGER

Use this card to immediately operate your unit. Refer to the 805/835 manual for more detailed information. Keep this card on board for quick reference while operating your unit. Good downrigger fishing!

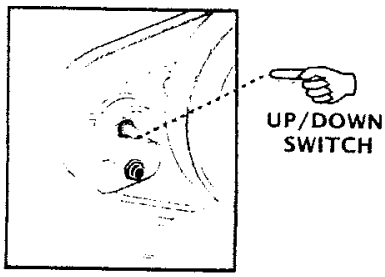
SETTING MECHANICAL ZERO/RIGGING POINT



Secure downrigger to boat. ***Before*** connecting power, set mechanical zero/rigging position. Using downrigger's drag, lower weight about a foot below boom tip. This will be a convenient position for rigging weight. Tighten drag to prevent weight from descending. Rotate downrigger's counter cup to zero. Plug unit in. You will hear three short beeps, indicating power is going to unit. Unit is now set to zero/rigging point.

Setting zero point just below boom tip allows you to raise weight up from your last waypoint, which should be in 1-2 ft. of water. When weight is ascending, the last waypoint will stop weight just below surface of water, preventing weight from swinging and hitting boat. Raise weight up to zero /rigging point when rigging weight. When weight reaches zero/rigging point, you will hear one long continuous beep. To stop this beep, briefly push switch down or up.

UP/DOWN SWITCH - *PUSH OPPOSITE DIRECTION TO STOP*

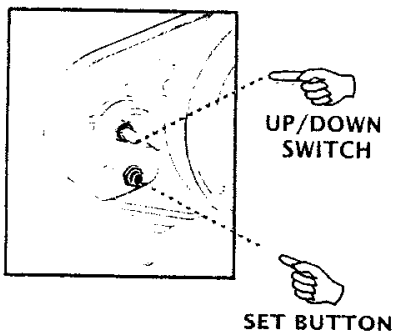


Get familiar with up/down switch. To lower weight, push switch down. Switch will automatically toggle to middle (neutral) after pushing. To stop weight at desired depth, push switch up. Switch will toggle back to middle (neutral) position.

To raise weight, push switch up. Switch will toggle back to neutral; weight will continue to rise. Either push switch down to stop weight's ascent, or let it rise to zero/rigging position. When weight rises to zero /rigging position, you'll hear one long continuous beep. To stop beep, briefly push switch down or up.

Remember **- To stop weight from either going up or down, push switch in opposite direction to stop. Switch will automatically toggle back to middle or neutral position.**

SETTING/CLEARING DEPTH WAYPOINTS



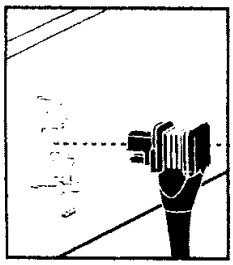
To set waypoints: push up/down switch up or down to stop weight's descent or ascent when you reach desired depth. Push and release set button. You'll hear one short beep, confirming depth waypoint is set.

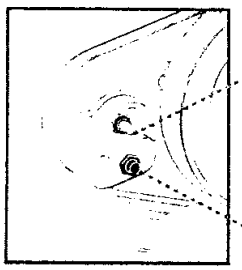
To set additional waypoints: repeat above step. Each time, you'll hear one short beep, confirming setting. A total of ten depth waypoints can be set. Remember, set your most shallow waypoint a foot or so below water's surface so that you can raise weight up to correct position for rigging.

Note: **Do not program depth waypoints within one foot of each other. They will cancel each other out.** *For example, if you set a depth waypoint of 50 feet, then set another at 51 feet, you will wipe out both waypoints. Try to separate depth waypoints by at least a couple of feet.*

OVER

SETTING/CLEARING DEPTH WAYPOINTS (CONT.)





To clear waypoints, lower or raise downrigger weight to waypoint you want to clear. You'll hear one short beep, indicating weight has reached waypoint. Push set button, then release. You'll then hear two short beeps, indicating waypoint has cleared.

A quick way to clear all waypoints, including zero/rigging point, is to unplug and re-plug unit. If you do, set your zero/rigging point as detailed above.

Another way to clear all waypoints, and to quickly re-set zero/rigging point, is to raise weight to zero point and after one long continuous beep, push up/down switch to up position. Then push set button in, and keeping it depressed, push up/down switch to up position. Release and then push set button again, and you'll hear three short beeps, indicating re-set zero/rigging point. Remember, all other depth waypoints are cleared, so you'll need to re-set any you want.

To activate manual or "jog" mode, push and keep depressed set button in, push up/down switch to up position. Weight can be any depth. Toggle up or down, but you'll need to keep your finger on switch to raise or lower weight. To stop weight's descent or ascent, take your finger off switch. No beeper sounds in this mode. Also, all waypoints including zero/rigging waypoint are wiped out and you cannot set any waypoints. To exit, follow instructions for re-setting your zero/rigging waypoint.

ACTION	RESULT
PUSH UP/DOWN SWITCH (UP)	WEIGHT RISES
PUSH UP/DOWN SWITCH (DOWN)	WEIGHT DECENDS
PUSH UP/DOWN SWITCH (OPPOSITE DIRECTION)	WEIGHT STOPS
PUSH & RELEASE SET BUTTON	SET WAYPOINT
PUSH & RELEASE SET BUTTON (AGAIN)	CLEAR WAYPOINT
UNPLUG & RE-PLUG UNIT	CLEARS ALL WAYPOINTS
PUSH AND HOLD SET BUTTON (IN) & PUSH UP/DOWN SWITCH (UP)	JOG/MANUAL MODE ACTIVATED

REVIEW OF BEEPER SOUNDS

One short **BEEP** indicates waypoint is set.

Two short **BEEPS** indicate waypoint is cleared.

Three short **BEEPS** indicate power going to unit or new zero/rigging point is re-set.

One long continuous **BEEP** indicates weight has reached zero/rigging point.