

SHORT STOP Conversion Kit No. 2250924

Magnum 10A Instructions Mini-Mag A Instructions

How the Short Stop System Works

The Short Stop electronic unit is capable of sensing the instant when the cable clears the water; it then turns off the downrigger while your trolling weight is still in the water to eliminate cable strain caused by excessive bouncing.

The two critical elements to accomplish this, other than the Short Stop unit itself, are the conductive rubber cable contact that completes the electrical circuit from the Short Stop to the cable (NOTE: if your unit is equipped with the new reel as shown in illustration, the conductive rubber contact is not used) and the trolling weight insulator which enables the motor to stop with the weight still in the water.

Installing the Short Stop in Magnum 10A

1. Disconnect downrigger from battery before starting.
2. Remove motor enclosure cover and motor unit.
3. Disconnect all electrical connections, and remove the motor switch and circuit breaker.

IMPORTANT: Do not pull on the wires when separating connectors. If necessary, gently pry connector away from its contact with screwdriver blade.

4. Make the new connections following the wiring diagram, and using the new motor switch.

Note: Green wire will connect under washer of middle motor-mounting nut in step 6.

5. Install the Short Stop unit by peeling the backing paper off the adhesive patch on bottom of unit. The unit must be positioned as shown in order to provide clearance for the other components. Double-check its position, then press it firmly in place.

6. Install the new motor switch and the circuit breaker, positioned as shown in Fig. 2. Make sure the switch is turned so the violet wire is in the upper position and the circuit breaker in a diagonal position.

IMPORTANT: Make sure no wires or connectors are jammed against the black enclosures on the Short Stop unit.

7. Replace the motor unit. Tighten nuts firmly (DO NOT OVER TIGHTEN). Remember to insert the green wire connector under the washer of middle motor-mounting nut.

8. Replace motor enclosure cover, making sure all seven screws are fully seated. Always take care not to over tighten cover screws.

9. Unit must be tested in water with boat ground system in operation, or 5 gallon bucket of water with at least 6" of exposed wire in the water and other end connected to the negative post of the battery.

This Short Stop Conversion Kit Contains:

- | | |
|---|--|
| 1 Short Stop Electronic Unit 2200924 | 1 Insulator and Snap 2200148 |
| 1 3-Position Motor Switch 2286792 | 1 Pan Head Self-Tapping Screw 9370130 (discard screw when converting Magnum 10A) |
| 1 Conductive Rubber Cable Contact 9070500 | |

Installing Cable Contact and Weight Insulator

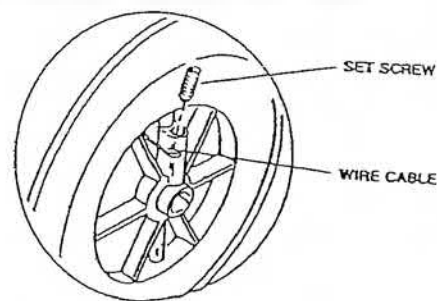
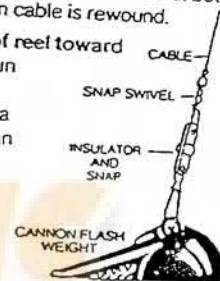
NOTE: If your unit is equipped with the new reel as shown in the illustration, proceed directly to Step 4 of these instructions.

1. Unwind cable from reel, being careful not to let it tangle, so it can be replaced without kinking. An easy way to do this is to coil it into a large, open cardboard box, at least 18" x 18".
2. Locate hole in hub of reel containing the set screw that engages the clutch shaft. Make sure the hole used contains the set screw. Carefully work the cable contact, made of conductive rubber, all the way into the hole.

Only a sixteenth of an inch (1/16") of the contact should extend above hub. This ensures that it is touching the set screw at bottom of hole and will complete the circuit when cable is rewound.

3. Rewind cable by hand, rotating top of reel toward boom of downrigger. Let the cable run through your other hand to keep light tension on it. This also lets you detect a tangle before it becomes a kink that can weaken your cable.

4. Install the trolling weight insulator between cable and trolling weight as pictured.



VIEW OF REEL OPPOSITE COUNTER

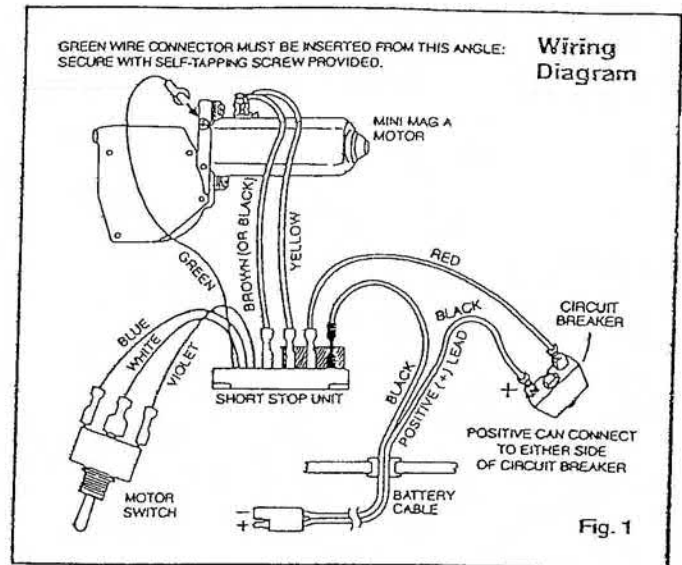
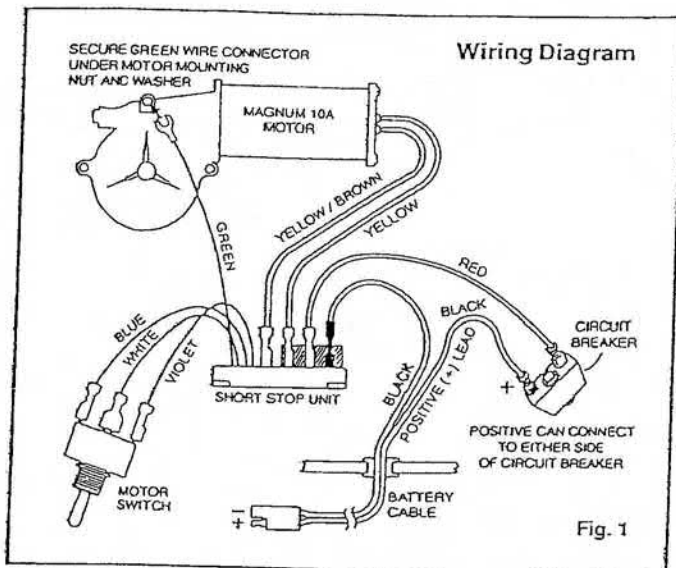
Operating Your Short Stop Downrigger

Raising Weight. Push motor switch upward momentarily and release. Downrigger will raise weight until it reaches surface of water, then automatically stop.

If you want to raise weight further, after it stops, push switch upward and hold it until weight reaches desired position, then release.

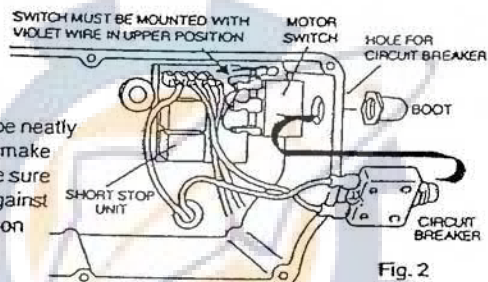
To stop weight during ascent push motor switch downward momentarily and release.

Lowering Weight. Push motor switch downward and hold it until weight reaches desired depth, then release.



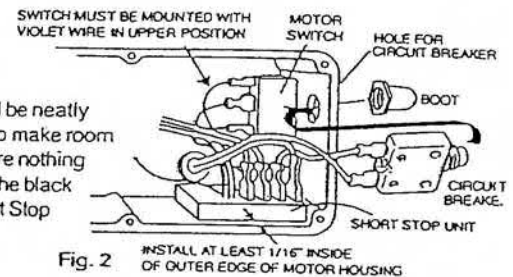
Magnum 10A Assembly

Excess wire should be neatly looped and folded to make room for motor. Make sure nothing is jammed against the black enclosures on Short Stop unit.



Mini-Mag A Assembly

Excess wire should be neatly looped and folded to make room for motor. Make sure nothing is jammed against the black enclosures on Short Stop unit.



Trouble Shooting

Problem: Up or down will not work.
Solution: Check battery polarity.

Problem: Unit runs down when pushing switch up.
Solution: A. Be sure violet wire is on top side of switch.
 B. If problem still exists, interchange yellow and brown (or black) wires on short stop module.

Problem: Unit fails to continue running up after pressing up switch, while cable is still in water.
Solution: A. Check green wire connection.
 B. Boat must have ground (negative from battery) to water, through engine drive; lower unit or metal boat.
 C. Check for properly installed conductive rubber. (NOTE: If unit is equipped with new Reel Conductive Rubber, contact is not required.)

Problem: Unit suddenly goes auto up when VHF radio is used.
Solution: In some rare cases this is occurring. The cause is a defective radio antenna. Install an inexpensive .047 capacitor between the blue & white connector at the up/down switch. To install pull connectors off until the hole in the spade terminal is exposed. Put end of capacitor wire in hole and force terminal over. If problem persists, a better grade antenna will eliminate the problem.

Any tackle dealer may order service parts. Check with your local dealer. For repair service, check listings of our service centers in the catalog or call for information.

CANNON / S & K Products, Inc.
 1732 Glade Street Muskegon, Michigan 49441

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 Patent 4,657,892

Made in U.S.A.
 Form 2281924 Rev. 1/88

SHORT STOP Conversion Kit No. C2722A

Magnum 10A Instructions

How the Short Stop System Works

The Short Stop electronic unit is capable of sensing the instant when the cable clears the water; it then turns off the downrigger while your trolling weight is still in the water to eliminate cable strain caused by excessive bouncing.

The two critical elements to accomplish this, other than the Short Stop unit itself, are the conductive rubber cable contact that completes the electrical circuit from the Short Stop to the cable, and the trolling weight insulator which enables the motor to stop with the weight still in the water.

Installing the Short Stop in Magnum 10A

1. Disconnect downrigger from battery before starting.
2. Remove motor enclosure cover and motor unit.
3. Disconnect all electrical connections, and remove the motor switch and circuit breaker.

IMPORTANT: Do not pull on the wires when separating connectors. If necessary, gently pry connector away from its contact with screwdriver blade.

4. Make the new connections following the wiring diagram, and using the new motor switch.

Note: Green wire will connect under washer of middle motor-mounting nut in step 6.

5. Install the Short Stop unit by peeling the backing paper off the adhesive patch on bottom of unit. The unit must be positioned as shown in order to provide clearance for the other components. Double-check its position, then press it firmly in place.

6. Install the new motor switch and the circuit breaker, positioned as shown in Fig. 2. Make sure the switch is turned so the violet wire is in the upper position.

IMPORTANT: Make sure no wires or connectors are jammed against the black enclosures on the Short Stop unit.

7. Replace the motor unit. Tighten nuts firmly (**DO NOT OVER TIGHTEN**). Remember to insert the green wire connector under the washer of middle motor-mounting nut.

8. Replace motor enclosure cover, making sure all seven screws are fully seated. Always take care not to over tighten screws in plastic.

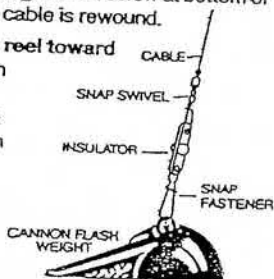
Installing Cable Contact and Weight Insulator

1. Unwind cable from reel, being careful not to let it tangle, so it can be replaced without kinking. An easy way to do this is to coil it into a large, open cardboard box, at least 18" x 18".
2. Locate hole in hub of reel containing the set screw that engages the clutch shaft. **Make sure the hole used contains the set screw.** Carefully work the cable contact, made of conductive rubber, all the way into the hole.

Only a sixteenth of an inch (1/16") of the contact should extend above hub. This ensures that it is touching the set screw at bottom of hole and will complete the circuit when cable is rewound.

3. Rewind cable by hand, rotating top of reel toward boom of downrigger. Let the cable run through your other hand to keep light tension on it. This also lets you detect a tangle before it becomes a kink that can weaken your cable.

4. Install the trolling weight insulator between cable and trolling weight as pictured.



This Short Stop Conversion Kit Contains:

- | | |
|--|---|
| 1 Short Stop Electronic Unit C-2722A | 1 Insulator C-2761 and Snap Fastener C-2467 |
| 1 3-Position Motor Switch C-2765 | 1 Pan Head Self-Tapping Screw C-2744 (discard screw when converting Magnum 10A) |
| 1 Conductive Rubber Cable Contact C-2745 | |

Wiring Diagram

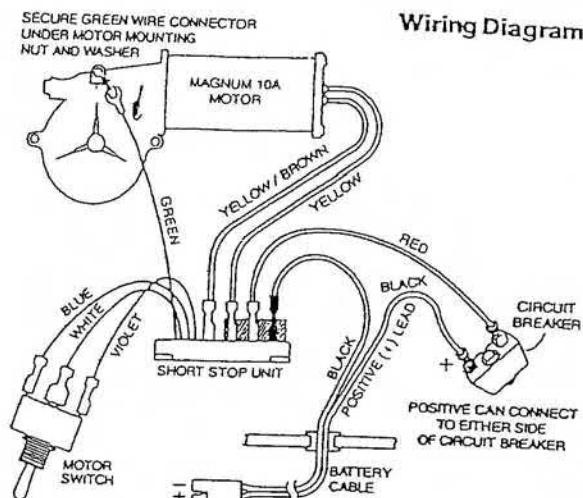


Fig. 1

Magnum 10A Assembly

Excess wire should be neatly looped and folded to make room for motor. Make sure nothing is jammed against the black enclosures on Short Stop unit.

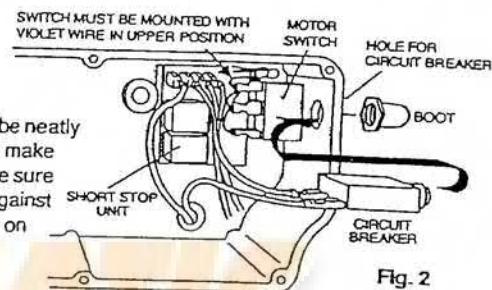


Fig. 2

Operating Your Short Stop Downrigger

Raising Weight. Push motor switch upward momentarily and release. Downrigger will raise weight until it reaches surface of water, then automatically stop.

If you want to raise weight further, after it stops, push switch upward and hold it until weight reaches desired position, then release.

To stop weight during ascent push motor switch downward momentarily and release.

Lowering Weight. Push motor switch downward and hold it until weight reaches desired depth, then release.

Trouble Shooting

Problem: Up or down will not work.

Solution: Check battery polarity.

Problem: Unit runs down when pushing switch up.

Solution: A. Be sure violet wire is on top side of switch.

B. If problem still exists, interchange yellow/brown wire with yellow on short stop module.

Problem: Unit fails to continue running up after pressing up switch, while cable is still in water.

Solution: A. Check green wire connection.

B. Boat must have ground (negative from battery) to water; through engine drive; lower unit or metal boat.

C. Check for properly installed conductive rubber.

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1732 Glade Street Muskegon, Michigan 49441

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Patent Pending

SHORT STOP Conversion Kit No. C2722A

Mini-Mag A Instructions

How the Short Stop System Works

The Short Stop electronic unit is capable of sensing the instant when the cable clears the water; it then turns off the downrigger while your trolling weight is still in the water to eliminate cable strain caused by excessive bouncing.

The two critical elements to accomplish this, other than the Short Stop unit itself, are the conductive rubber cable contact that completes the electrical circuit from the Short Stop to the cable, and the trolling weight insulator which enables the motor to stop with the weight still in the water.

Installing the Short Stop in Mini-Mag A

1. Disconnect downrigger from battery before starting.
2. Remove motor enclosure cover.
3. Disconnect electrical connections from the motor switch and circuit breaker, and remove the motor switch and circuit breaker.

IMPORTANT: Do not pull on the wires when separating connectors. If necessary, gently pry connector away from its contact with screwdriver blade.

4. Make the new connections following the wiring diagram, and using the new motor switch.

Note: Fasten green wire to motor casing, using self-tapping screw (supplied) in the existing hole indicated. Spade connector must be inserted under screw head from direction shown in order to fasten securely.

5. Install the Short Stop unit by peeling the backing paper off the adhesive patch on bottom of unit. The unit must be positioned as shown in order to provide clearance for the other components. Be sure Short Stop is installed at least 1/16" inside outer edge of motor housing. Double check its position, then press it firmly in place.

6. Install the new motor switch and the circuit breaker, position as shown in Fig. 2. Make sure the switch is turned so the violet wire is in the upper position.

IMPORTANT: Make sure no wires or connectors are jammed against the black enclosures on the Short Stop unit.

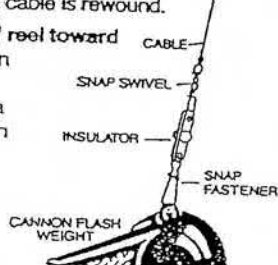
7. Replace motor enclosure cover, making sure all seven screws are fully seated. Always take care not to over tighten screws in plastic.

Installing Cable Contact and Weight Insulator

1. Unwind cable from reel, being careful not to let it tangle, so it can be replaced without kinking. An easy way to do this is to coil it into a large, open cardboard box, at least 18" x 18".
2. Locate hole in hub of reel containing the set screw that engages the clutch shaft. **Make sure the hole used contains the set screw.** Carefully work the cable contact, made of conductive rubber, all the way into the hole.

Only a sixteenth of an inch (1/16") of the contact should extend above hub. This ensures that it is touching the set screw at bottom of hole and will complete the circuit when cable is rewound.

3. Rewind cable by hand, rotating top of reel toward boom of downrigger. Let the cable run through your other hand to keep light tension on it. This also lets you detect a tangle before it becomes a kink that can weaken your cable.
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| 1 3-Position Motor Switch C-2765 | and Snap Fastener C-2467 |
| 1 Conductive Rubber Cable Contact C-2745 | 1 Pan Head Self-Tapping Screw C-2744 |

GREEN WIRE CONNECTOR MUST BE INSERTED FROM THIS ANGLE: SECURE WITH SELF-TAPPING SCREW PROVIDED.

Wiring Diagram

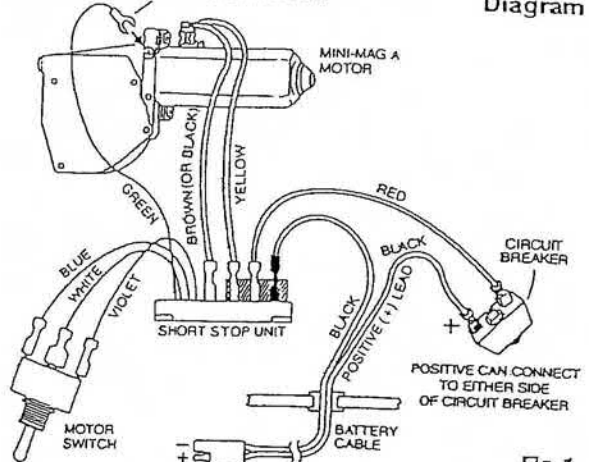


Fig. 1

Mini-Mag A Assembly

Excess wire should be neatly looped and folded to make room for motor. Make sure nothing is jammed against the black enclosures on Short Stop unit.

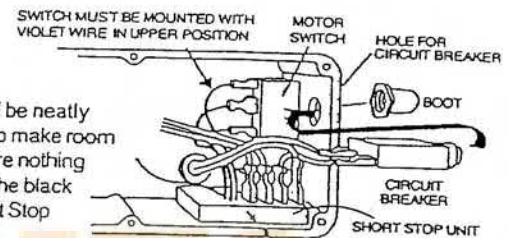


Fig. 2
INSTALL AT LEAST 1/16" INSIDE OF OUTER EDGE OF MOTOR HOUSING

Operating Your Short Stop Downrigger

Raising Weight. Push motor switch upward momentarily and release. Downrigger will raise weight until it reaches surface of water, then automatically stop.

If you want to raise weight further, after it stops, push switch upward and hold it until weight reaches desired position, then release.

To stop weight during ascent push motor switch downward momentarily and release.

Lowering Weight. Push motor switch downward and hold it until weight reaches desired depth, then release.

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Problem: Unit runs down when pushing switch up.

Solution: A. Be sure violet wire is on top side of switch.

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Solution: A. Check green wire connection.

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C. Check for properly installed conductive rubber.

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