

# RitchieSport Compass Instructions

## X-10

**Installation:** For maximum accuracy and performance select a location easily visible to the operator and with minimum magnetic interference.

Important: Before installing compass permanently, adjust in selected location to be sure it can be properly compensated. Electric motors, stereo speakers and windshield wiper motors often cause magnetic interference. Compass should be level and aligned parallel with centerline of vehicle/boat. The universal bracket should fit any mounting situation and can be reversed by removing screws. The mounting bracket has holes for mounting with NON MAGNETIC self tapping screws or bolts and nuts. Double faced tape is supplied. To adhere properly the surface must be clean, dry and warm (60 degrees or above).

Suggestion: For easy removal, Velcro \* tape could be used.

**Adjusting:** Your RitchieSport compass has a built-in correcting magnet system. The slotted ends should be horizontal before starting the adjust procedure.

- Neutral (horizontal)

- Maximum Adjustment (vertical)

A small non-magnetic screwdriver is provided for adjusting purposes. When making adjustments, have vehicle engine running and accessories in normal operating condition. With slotted ends in neutral position and using known courses available from maps/charts, landmarks or roads, adjust as follows:

1. Head North. Turn side corrector until compass reads North.
2. Head East. Turn front corrector until compass reads East.
3. Head South. Turn side corrector and correct for 1/2 of error if any observed.
4. Head West. Turn front corrector and correct for 1/2 of error if any observed.

For more accurate readings, repeat compensating steps in same order, each time correcting for 1/2 the indicated error at the four compass points: N,S,E, and W. If after following the steps outlined, you cannot compensate the compass to a reasonable standard and either corrector is in the maximum position (vertical), a new installation location must be found. After relocating, return the compensators to the neutral position (horizontal) and re-adjust as before.

**Lighting:** Twelve (12) Volt DC night lighting is supplied. Either wire may be used for a ground.

## X-15

**INSTALLATION:** For maximum accuracy and performance select a location easily visible to the operator and with minimum magnetic interference.

The X-15 mounts in any standard 2-1/16" gauge hole.

**IMPORTANT:** Before installing compass permanently, test the proposed location by rotating the vehicle/boat and comparing the compass reading to the actual direction the vehicle/boat is facing. Electric motors, stereo speakers and windshield wiper motors often cause magnetic interference.

The X-15 is not equipped with internal compensators, it is a precision instrument that is intended to be used as a HEADING REFERENCE. Care should be taken to select a mounting location that causes the least error in the compass readings.

The Compass should be mounted parallel to the centerline of the vehicle/boat.

**Lighting:** 12 volt DC LED night lighting is supplied. The COPPER CONDUCTOR IS ATTACHED TO +, and the SILVER COLOR CONDUCTOR IS GROUND.

Reversing the connections will not damage the LED, but IT WILL NOT LIGHT.

**Maintenance:** RitchieSport requires little care. To clean, wipe carefully with a damp cloth. Do not use chemicals or solvents.

**Warranty:** We warrant all Ritchie products to be free of defects in workmanship or materials. If within three years of purchase date an instrument fails to give satisfactory service, it will be repaired or replaced without charge. This guarantee does not cover breakage through accident or misuse. Replacement or repair will be made if the instrument is returned to a Ritchie Authorized Service Station or directly to E. S. Ritchie & Sons, Inc., 243 Oak Street, Pembroke, MA 02359.

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