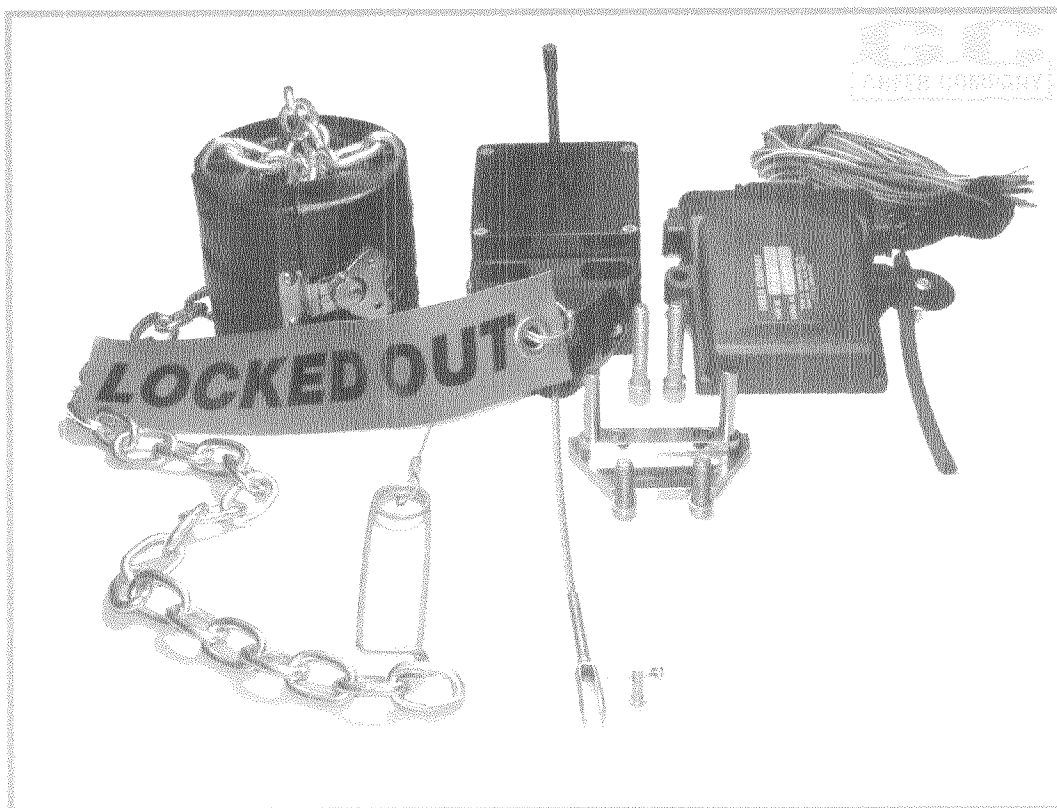




Crane Systems



**RADIO ANTI-TWO BLOCK
WITH COMPACT OEM RECEIVER SYSTEM**



Crane Systems and Accessories

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**Revise Document
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COMPACT OEM RECEIVER SYSTEM**

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GREER COMPANY LIMITED WARRANTY ORIGINAL EQUIPMENT MANUFACTURERS

This Limited Warranty covers parts and labor against defects in material or workmanship during normal and ordinary use and service by the customer for a period of one (1) year commencing from the date of resale of the article by an original equipment manufacturer ("O.E.M.") to the customer.

EXCLUSIONS:

This warranty excludes damage caused by (1) misuse, neglect, and/or overloading; (2) use otherwise than in conformity with Seller's applicable specifications, manuals, bulletins, or instruction; (3) use or employment other than normal ordinary use and service; (4) accident, fire, power changes, other hazards, or Force Majeure; or (5) use of the product with any non-Greer device or service if such device or service causes the problem. The warranty shall not apply to any articles or parts thereof furnished by Greer to the customer's specifications and/or furnished by the customer or acquired from others at the customer's request.

EXCLUSIVE REMEDIES:

Should a covered defect occur during the warranty period and Greer is notified thereof, the sole and exclusive remedy shall be, at Greer's sole option and expense, to repair or replace any article or part thereof which has proven to be defective. If Greer cannot reasonably repair nor replace the Greer may, in its sole discretion, refund the purchase price paid for the product. **This warranty is non-transferable.**

OBTAINING WARRANTY SERVICE:

The customer must contact Greer to provide notice of a covered defect within the applicable warranty period. Such notice shall include an explanation of the claimed warranty defect and proof of date of purchase of the article or part thereof for which warranty coverage is sought. Greer will either examine the article at the customer's site or issue shipping instructions for return to Greer. Products or parts shipped by the customer to Greer must be sent postage-paid and package appropriately for safe shipment. Greer is not responsible for customer products received without a warranty service authorization and such products may be rejected. Greer is not responsible to the customer for any transportation, labor charges, parts, "in and out" costs, adjustments or repairs, or any other work, unless such items are authorized in writing, in advance, by Greer. All products or parts that are replaced become the property of Greer. Greer shall not be responsible for the customer's software, information or memory data contained in, stored on, or integrated with any products returned to Greer for repair, whether under warranty or not.

WARRANTIES EXCLUSIVE:

THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, CORRESPONDENCE WITH DESCRIPTION, AND NON-INFRINGEMENT, ALL OF WHICH ARE EXPRESSLY DISCLAIMED.

LIMITATION OF LIABILITY:

GREER SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL OR PUNITIVE DAMAGES OF ANY KIND, LOSS OF INFORMATION OR DATA, OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE SALE OR USE OF THIS PRODUCT, WHETHER BASED ON CONTRACT, TORT (INCLUDING NEGLIGENCE) OR ANY OTHER THEORY, EVEN IF GREER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. GREER'S ENTIRE LIABILITY SHALL BE LIMITED TO REPLACEMENT, REPAIR, OR REFUND OF THE PURCHASE PRICE PAID, AT GREER'S OPTION DURING THE WARRANTY PERIOD.

DISCLAIMER:

This Limited Warranty shall be governed by the laws of the State of California. Some countries, states, or provinces do not allow the exclusion or limitation of implied warranties or the limitation of incidental or consequential damages so the above limitations and exclusions may be limited in their application to you. When implied warranties may not be excluded in their entirety, they will be limited to the duration of the applicable written warranty. This warranty gives you specific legal rights; you may have other rights that may vary depending on local law. Your statutory rights are not affected.



FCC DECLARATION OF COMFORMITY

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- * Reorient or relocate the receiving antenna.
- * Increase the separation between the equipment and receiver.
- * Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- * Consult the dealer or an experienced radio/TV technician for help.

This equipment has been certified to comply with the limits for a class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.



5. Introduction

Greer Company's Radio Anti-Two Block with Compact OEM Receiver operates efficiently to prevent damage and loss of load by alerting the operator of an imminent danger. It additionally provides cutouts and shut offs on selected crane motions whenever a two-block alarm condition will occur. Since it is a wireless system, it doesn't require wiring. The system can be used in both Hydraulic and Lattice Cranes.

Features:

- Single Transmitter and Receiver System
- Coded Multiple Units at 9165MhZ FM
- Preset Transmitter Code which can be overwritten if necessary
- Lock-out flag.....
- Battery life.....
- Optional movable Transmitter Installation
- Temperature range of -40° to +85° using supplied battery.....
- Audible two-block, Loss of link and low battery alarm.
- Easy to install and operate.
- Tough and durable.

6. System Components

The system consists of Radio Anti-Two Block Transmitter with a safety pin, mounting bracket and locked out pin; a compact OEM Receiver with antenna and harness wires; and a Chain and Weight Assembly.

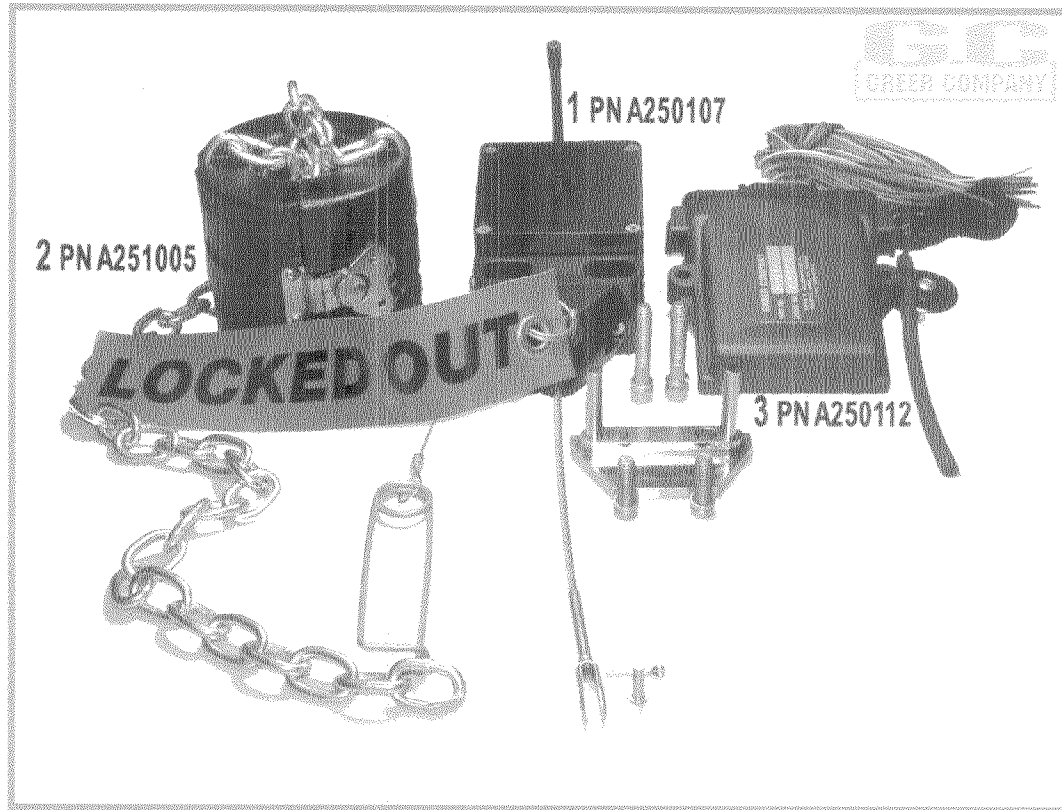


FIGURE 1: RADIO ANTI-TWO BLOCK WITH COMPACT OEM RECEIVER

1. Transmitter Unit (PN A250107) is mounted at the left side of the boom, below the centerline and at 40° to 45° counterclockwise secured with mounting bracket/screws. It is attached with an ATB weight and chain.
2. The Chain and Weight Assembly (PN A251005) is attached to the Transmitter via the wire rope and secured with the clevis pins and cotter. The ATB Weight is wrapped around the cable and locked in place with the latch
3. The Compact OEM Receiver (PN A250112) is placed inside the Cab with the antenna mounted (with the magnet) parallel to the Transmitter antenna on a direct line-of-sight.

6.1 The Transmitter

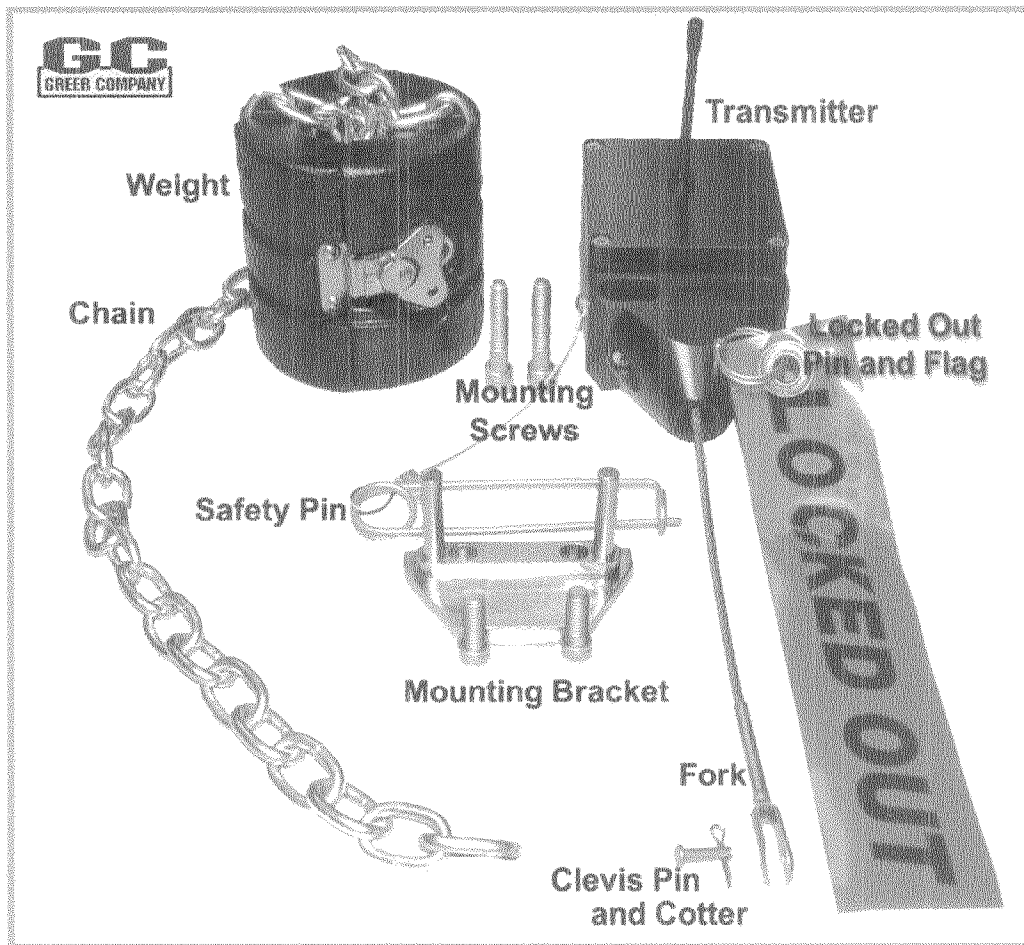


FIGURE 2: RADIO TRANSMITTER SYSTEM

6.2 The Compact OEM Receiver

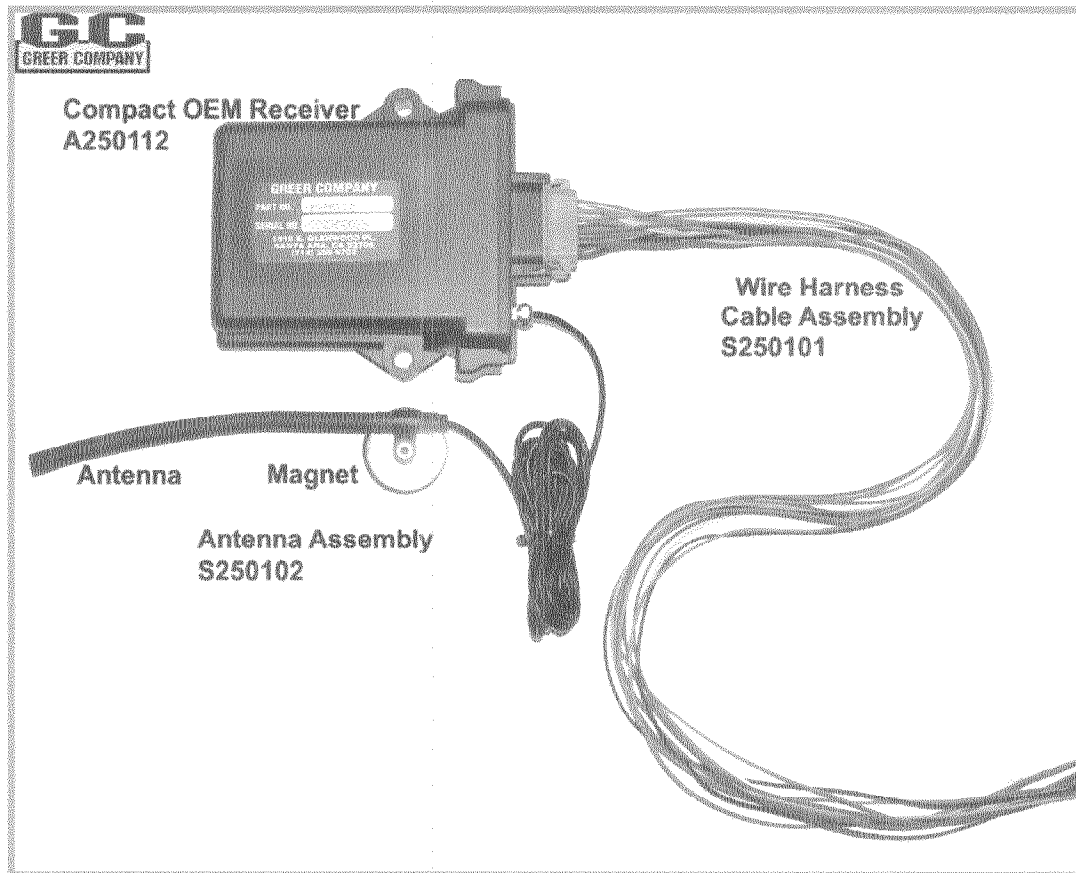


FIGURE 3: COMPACT OEM RECEIVER

7. Installation

7.1 Mounting Transmitter unit



Before mounting the transmitter, make sure all precautionary measures have been taken.

Make sure boom is at horizontal position.

The transmitter should be mounted at the left side of the boom tip, 40° - 45° counterclockwise specifically below the centerline and as much as possible, the nosecone of the transmitter is just above the cables.

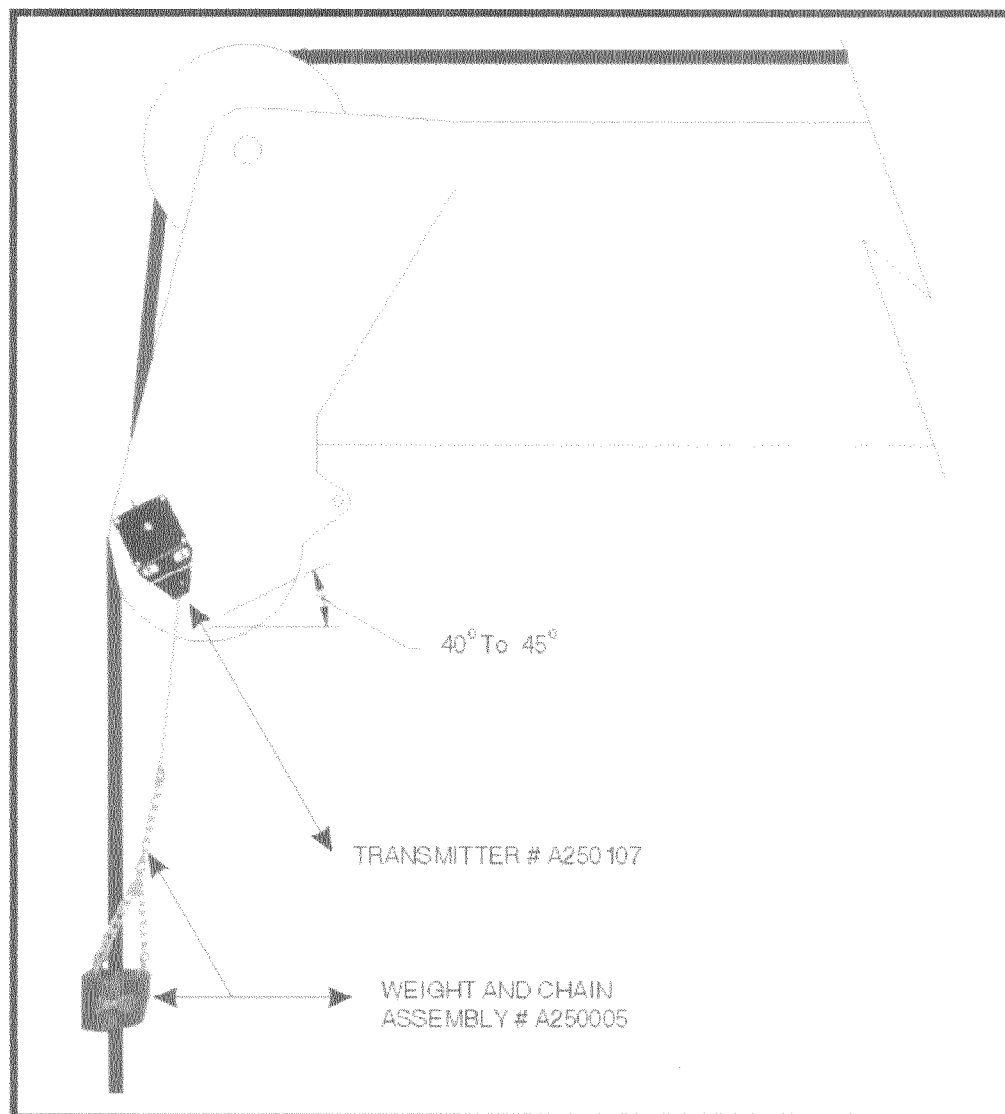


FIGURE 4: TYPICAL TRANSMITTER INSTALLATION ON A HYDRAULIC BOOM

7.1.1: USING THE MOUNTING BRACKET:

- At 40° - 45° counterclockwise, drill and tap two holes for a 5/16"-18 screw, exactly 1 9/16" apart center to center and 3/16" deep minimum (see illustration).
- Fasten mounting bracket using supplied 5/16"-18 x 1" mounting screws with lock washers (see illustration).
- With the holes in the transmitter aligned with the clevis pins, place the transmitter with the nosecone facing down, insert the safety pin through the holes on the side and lock it.

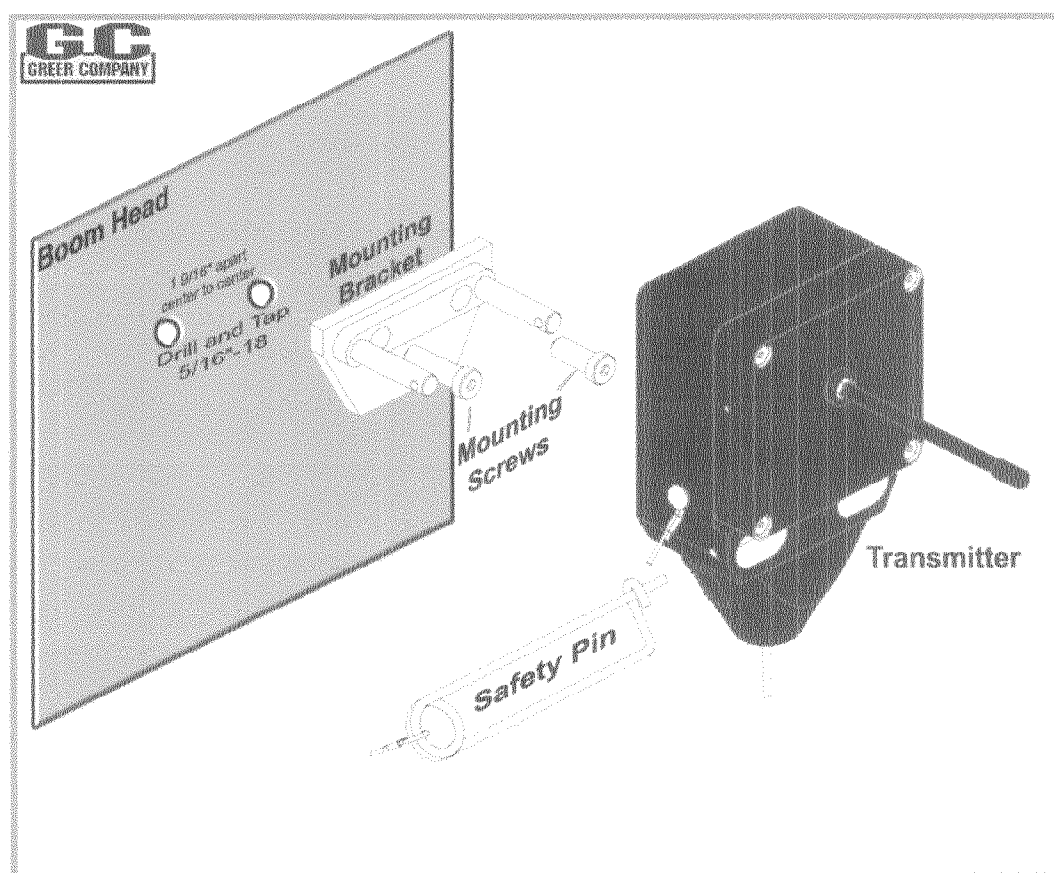


FIGURE 5: MOUNTING TRANSMITTER USING MOUNTING BRACKET