



**Instruction Manual  
&  
Parts Catalog**

**Quick Adjustable  
Dual Ball Mount**

**6-1/2" Drop; 7-1/2" Rise  
Model 110109**



**Read and understand this entire manual before assembling,  
installing, operating, or servicing this product.**

**SAVE THIS MANUAL**

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## IMPORTANT SAFETY INFORMATION

This is a **SAFETY ALERT** symbol.



It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

**DANGER** indicates a hazardous situation which, if not avoided, will result in death or injury.

**WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION** indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

**NOTICE** indicates important information which, if not followed, may cause damage to equipment.

## SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions. The manual offers important information on how to assemble, use and maintain this product.

Write the product's model number and purchase date on the cover page of this manual.

Keep this manual (and your purchase receipt) in a safe place.

## UNPACKING

The shipment should be thoroughly inspected as soon as it is received. The signed "bill of lading" is acknowledgement by the carrier of receipt in good condition or shipment covered by our invoice. For your own protection, if any of the goods called for on the bill of lading are shorted or damaged, do not accept them until the carrier makes a notation on the freight bill of the shorted or damaged goods.

**Notify AVITEC immediately if any hidden loss or damage is discovered after receipt.**

## Definition of Symbols



**WARNING** concerning Risk of Eye Injury. Wear ANSI approved eye protection.



**WARNING** concerning Risk of Hearing Loss. Wear hearing protection.



## IMPORTANT SAFETY INSTRUCTIONS

1. **Read and understand all safety warnings and instructions.** Failure to follow the warnings and instructions may result in serious injury or death. Save all warnings and instructions for future reference.

### 2. Personal and Work Area Safety

A. **Always wear ANSI approved safety goggles.**

B. **Always wear hearing protection when working in noisy environments.** Prolonged exposure to high intensity noise can cause hearing loss.

C. **Use safety equipment.** Safety shoes, hard hat and work gloves must be used for applicable conditions.

D. **Dress appropriately.** Never wear loose fitting clothing or jewelry when working. Contain long hair, and keep hair, clothing and gloves away from moving parts.

E. **Use common sense when working.** Stay alert and concentrate when assembling and using the Quick Adjustable Dual Ball Mount. Never work while under the influence of alcohol, drugs or medications.

## Personal and Work Area Safety (continued)

F. While assembling and using the Quick Adjustable Dual Ball Mount keep work area clean and well lighted. Keep spectators and children out of the work area.

### 3. Use of this Quick Adjustable Dual Ball Mount

A. **WARNING** Do not exceed the Quick Adjustable Dual Ball Mount's maximum weight ratings (see Specification chart on page 5).

B. Always make sure that the trailer is chocked properly when attaching the Quick Adjustable Dual Ball Mount. Take safety precautions to prevent unsafe movement of the trailer as it is being attached to the towing vehicle.

C. **Make sure that the trailer tongue is securely connected to the ball mount. The vehicle's hitch coupler must be properly secured to the Receiver Tube of the Quick Adjustable Dual Ball Mount. After set-up and attachment is complete, pull firmly on the hitch coupler to make sure that the ball mount properly fits in the hitch coupler; there should be no play between the ball and the hitch coupler.**

**WARNING** If the hitch coupler is not adjusted properly the ball mount could loosen while the vehicle/trailer are on the road, resulting in serious property damage, personal injury or death.

**Safety chains between the towing vehicle and the trailer are always required.**

D. Assemble this Ball Mount so that the trailer will be level when hitched to the towing vehicle. **Note: See page 4, paragraph #1 for information on how to determine proper height of ball mount to insure a level trailer.**

E. Always keep arms, feet and legs away from under the trailer when setting up the Quick Adjustable Dual Ball Mount, and when hitching, unhitching or moving the trailer. Keep spectators away when setting up and using this product.

F. **Be aware of the danger of "dynamic loading"**. This situation arises when a load is dropped onto the Quick Adjustable Dual Ball Mount/trailer tongue, resulting in a short term excessive load. Dynamic loading can result in damage and failure of the Quick Adjustable Dual Ball Mount and/or trailer tongue, and personal injury to people nearby.

G. **Before each use, check the Quick Adjustable Dual Ball Mount, trailer tongue and receiver hitch to make sure all hardware is tightly secured.** Check for damaged or worn parts; never use the Quick Adjustable Dual Ball Mount if it is damaged.

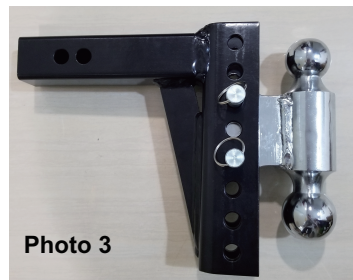
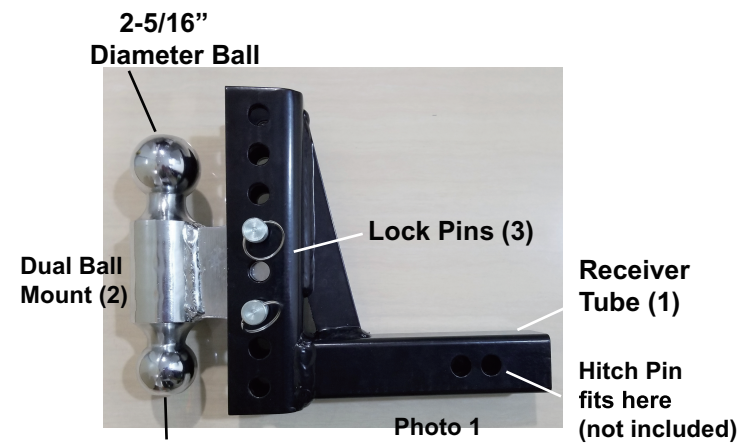
**Keep in mind that the warnings previously discussed cannot cover all possible events and circumstances. It is important that the person setting up and using this product use common sense at all times.**

**AVITEC is not responsible for the attachment or the installation of this product. The attachment of this product is critical and beyond the control of AVITEC It neither guarantees, nor will it be liable for any damage resulting from the Quick Adjustable Dual Ball Mount's at-tachment or improper use.**

**Limited Warranty.** AVITEC warrants to the original retail purchaser that the product is free of defects in material and workmanship at the time of shipment. This Quick Adjustable Dual Ball Mount is warranted for 90 days from the date of purchase. This warranty is expressly in lieu of all other warranties, express or implied. Proof of purchase is required for warranty transactions; a copy of the original invoice or sales receipt is required.



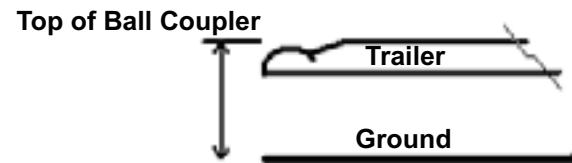
## Assembling and Setting Up the Quick Adjustable Dual Ball Mount



1. Refer to photos above and to the Assembly Diagram at end of this manual.

**Note: The height of the ball from the ground surface must be determined before the Quick Adjustable Dual Ball Mount can be assembled correctly.**

A. First make sure trailer is parallel to ground surface. To determine ball height, measure the trailer from ground surface to the top of the ball coupler.



B. To this measurement, add 1/8" for each 100 lbs. tongue weight\* (for tow vehicles without overloads). For vehicles with overloads, or trucks, add 1/16" for each 100 lbs. tongue weight; this will compensate for vehicle "squat".

\*Tongue Weight refers to the amount of the trailer's weight that presses down on the trailer hitch.

C. **Note this ball height;** it will be used when adjusting the position of the Dual Ball Mount (2) to the Receiver Tube (1) in assembly step #4 below.

2. Insert Receiver Tube (1) into vehicle's 2" x 2" receiver hitch. Tube can be inserted in the upward or downward position for the rise/drop required.

3. **A 5/8" diameter steel hitch pin and matching R-shaped safety clip (both not included) are needed to secure the Receiver Tube (1) to the tow vehicle's receiver hitch - see illustration below.**



4. Position Dual Ball Mount (2) with the desired ball size on top, and prepare to insert it into Receiver Tube (1).

**Use the ball height calculation** and adjust up or down the position of the Dual Ball Mount to achieve the desired ball height.

Attach the Dual Ball Mount (2) to the Receiver Tube (1) by using two Lock Pins (3) and two R-Shaped Safety Clips (4).

5. Periodically check that the Lock Pins (3) are both fully inserted with R-Shaped Safety Clips (4) fully engaged.

Check to make sure that the steel hitch pin and R-shaped safety clip are properly securing the Receiver Tube (1) to the tow vehicle's receiver hitch.

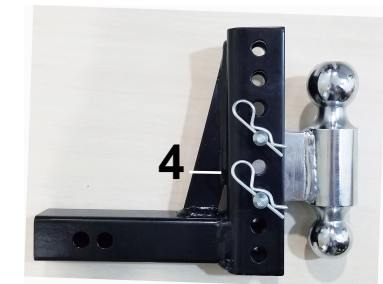
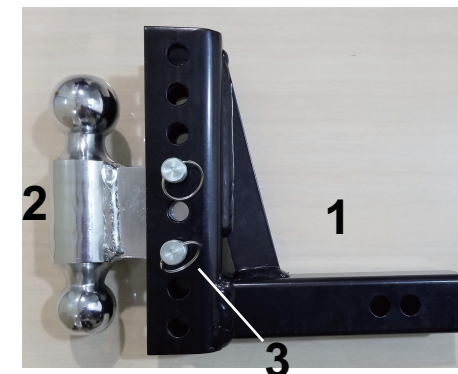
6. **WARNING** Read and adhere to all safety warnings and instructions provided by the manufacturer of the receiver hitch and trailer.

## SPECIFICATIONS

Receiver Dimensions	2" x 2"
Hitch Ball Size	Maximum Weight Ratings
2-5/16"	12,000 Lb. Trailer Weight/ 1,200 Lb. Tongue Wt.*
2"	8,000 Lb. Trailer Weight/ 800 Lb. Tongue Wt.
Adjustable Height Range	From 6-1/2" Drop to 7-1/2" Rise
For Use With	2" x 2" Class III and IV Receiver Hitches
Required Hitch Pin (steel)	5/8" Diameter with R- Shaped Safety Clip (both not included)

\*Tongue Weight refers to the amount of the trailer's weight that presses down on the trailer hitch.

## Assembly Diagram



## Parts List

Part #	Description	Qty
1	Receiver Tube	1
2	Dual Ball Mount	1
3	Lock Pin	2
4	R-Shaped Safety Clip	2

Note: Some parts are listed and shown for illustration purposes only; no replacement parts are available.

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