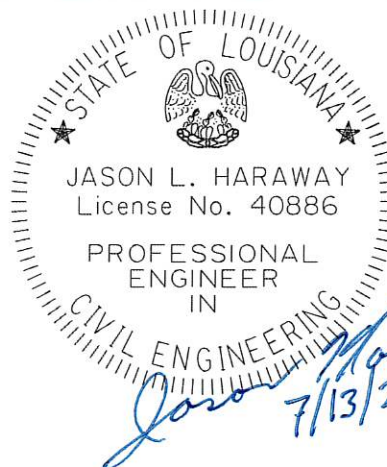


Louisiana
Department of Transportation
And
Development

Traffic Control Standard
Number
736-05-P0310

Mast Arm
Signal and Sign
Mounting Brackets and Tubes



Revised March 19, 2026

DESCRIPTION

This specification sets forth the requirements for mast arm mounting brackets and tubes for the installation of standard and optically programmed signal head assemblies and signs. All components shall conform to the latest AASHTO Standard Specification for Structural Supports for Highway Signs, Luminaires, and Traffic Signals except as specified herein.

Note: All drawings contained herein are for general design and/or installation information only.

GENERAL REQUIREMENTS

All components specified herein must be functionally compatible with the Pelco AG-3055 Astro-Brac Galaxy Mount. All threading shall be cleaned and free of burs and sharp edges. All hardware must be stainless steel.

TUBES

Product ID 57361: Aluminum Signal Head Assembly Tube, 74"

Product ID 57362: Aluminum Sign Tube, 37"

General

Tubes shall be manufactured from aluminum alloy 6061-T6 or 6063-T6 with a minimum thickness of schedule 40. Outside diameters shall be 1.90". All openings must be free of burs and sharp edges.

Signal Tubes

Signal tubes shall be 74" in length. The outside of the tube shall be smooth throughout the length and include an opening for wiring. Openings shall be 5/8" to 3/4" wide and 3" to 12" long; openings in excess of 12" in length must be gusseted. Gusseted tubes must include a plastic gusset insert.

One end of the tube shall include 1-½" of threading at 11.5 TPI, in accordance with the American National Standard Straight Pipe Thread (NPS). To prevent damage during shipment, a thread protector cap and a protective tube cap shall be installed.

Signal tube shall be Pelco AB-0306 Astro-Brac Gusseted Tube, or equal.

Sign Tubes

Sign tubes shall be 37" in length. For positioning of sign clamps, the outside of the tube shall be smooth throughout the length.

Sign tube shall be Pelco SE-0484 Pipe, or equal.

SIGNAL MOUNTING BRACKET ARMS

Product ID 57363: Mounting Bracket Arm Kit, Standard Signal Head Assemblies

Product ID 57364: Mounting Bracket Arm Kit, Optically Programmed Signal Head Assemblies

General

Mounting bracket components shall be constructed of 319 or 713 cast aluminum alloy meeting ASTM B179 standards. Upper and lower arms must be designed to attach to a 1.90" OD aluminum tube as specified above.

Mounting Bracket Arm Kit for Standard Signal Head Assemblies

Kit shall consist of an upper arm, a lower arm and hardware as indicated below. Each arm shall be cast in one (1) piece of aluminum and measure 8 ½" Center to Center (CTC) +/- ½".

The signal-mounting portion of the upper arm shall be serrated to fit against the mounting point of the signal via a tri-stud mount, tri-stud washer, and mounting hardware. The tube-mounting portion of the upper arm shall be an open design to "slip fit" onto the tube and be secured via set screws.

The signal-mounting portion of the lower arm shall be serrated to fit against the mounting point of the signal via a tri-stud mount and mounting hardware. The tube-mounting portion of the lower arm shall have threading at 11.5 TPI, NPS to allow the arm to "screw" onto the tube at least 1" and be secured via set screws. The lower arm must include a wire way that runs from the interior of the lower arm into the tube. The wire way must come complete with a UV resistant black plastic cover.

The mounting bracket arm kit for standard signal head assemblies shall be Pelco AB-4005 Astro-Brac 1-Way Arm Kit, or equal.

Mounting Bracket Arm Kit for Optically Programmed Signal Head Assemblies

Kit shall consist of an upper arm with a capped insert and a lower arm with a non-capped insert, wire way cover, and hardware as indicated below. Each arm shall be cast in one (1) piece of aluminum and measure 16" CTC +/- ½".

The signal-mounting portion of the upper arm shall include a fully threaded band at 11.5 TPI, NPS. The signal end of the upper arm shall mount to the signal head via an 11.5 TPI, NPS threaded, capped insert. Cap insert must be a minimum of 2 ½" in length in order to allow 1" of the threading to extend into the signal head. The tube-mounting portion of the upper arm shall be an open design to "slip fit" onto the tube. All upper arm connections shall be secured via set screws.

The signal-mounting portion of the lower arm shall include a threaded band at 11.5 TPI, NPS. The signal end of the lower arm shall mount to the signal head via an open insert threaded at 11.5 TPI, NPS. Insert length must be such that at least 1" of the threading will extend into the signal head. The tube-mounting portion of the lower arm shall have threading at 11.5 TPI, NPS to allow the arm to "screw" onto the tube a minimum of 1". All lower arm connections shall be secured via set screws. The lower arm must include a wire way that runs from the interior of the lower arm into the tube. The wire way must come complete with a UV resistant black plastic cover.

SIGN MOUNTING BRACKETS

Product ID 57365: Sign Attachment Brackets, Set of Two (2)

General

Sign mounting brackets shall be constructed of 319 or 713 cast aluminum alloy meeting ASTM B179 standards. Brackets shall be provided with installation hardware.

Design

Brackets shall be capable of supporting up to a 48" x 48" sign.

The flat (flush) side of the bracket shall measure 8" – 16" in length and mount to the sign via two (2) holes spaced a minimum of 5", not to exceed 14", apart.

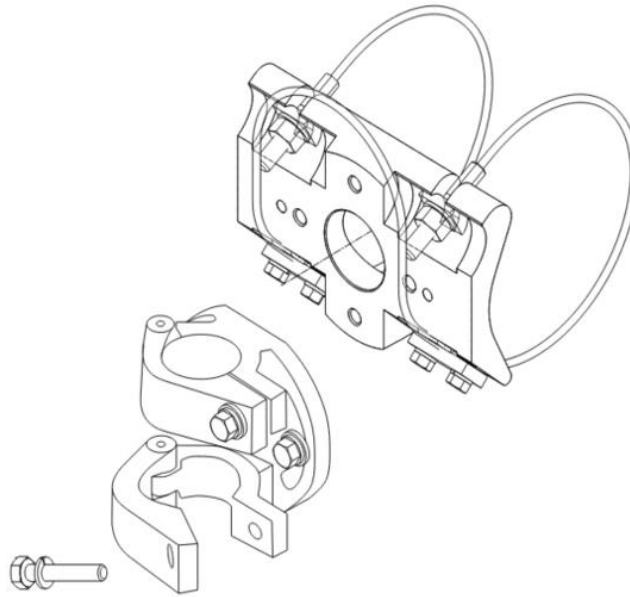
The bracket must securely fit around and attach to a 1.90" OD aluminum tube as specified above. Bracket designs using u-bolts will not be accepted.

Sign mounting brackets shall be Pelco AS-0661, Pelco AS-0708, or equal.

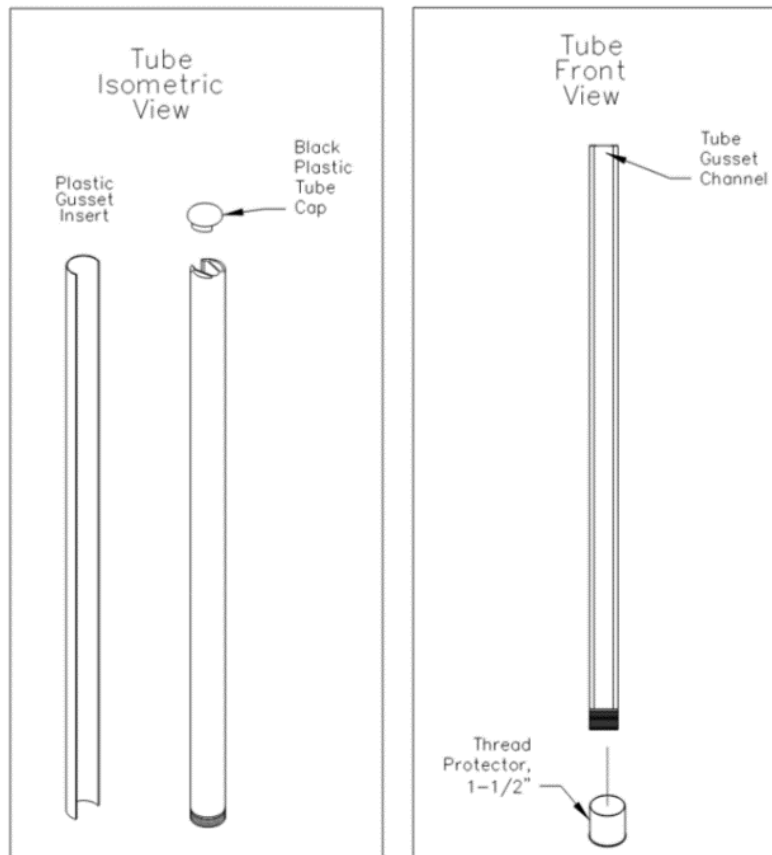
PACKAGING

Poles may be packaged two (2) or more per box for bulk shipment. All other Product IDs shall be individually packaged together including all hardware, parts, and components to make one (1) complete unit as specified. Split units packaged for bulk shipment will not be accepted.

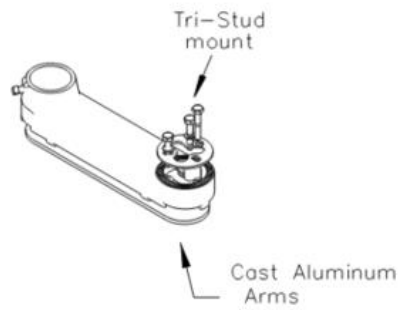
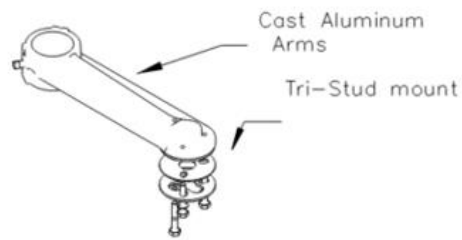
Hinged Bracket



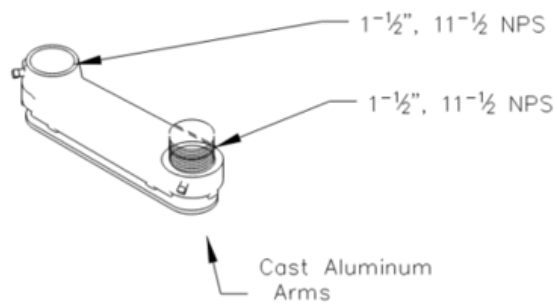
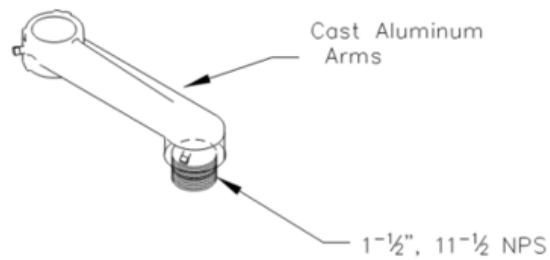
Gusseted Signal Tube with Insert



Mounting Bracket Arms for Standard Signal Head Assemblies



Mounting Bracket Arms for Optically Programmed Signal Head Assemblies



Sign Mounting Brackets

