Section 7
Ballast Weight

Procedures covered in this section:
Install ballast weight.

Cards used in this section:
E22 CARD 1T

Prints used in this section:
E22-2000

Templates used in this section:
None

Tools required for this section:

Air or electric drill	Grinder
Center punch	Mallet
Drift punch	Tape measure

Drill bits of the following sizes: 3/32", 3/16", 1/4", 5/16"
Ratchet with sockets of the following sizes: 3/8", 7/16", 1/2"
Wrenches of the following sizes: 3/8", 7/16", 1/2"

Notes:
1. BALLAST WEIGHT: Molten lead must be used to fill the weight. Do not use lead shot, as it would pour out of the hole that is drilled for the security pin.

CAUTION: WEAR SAFETY GLOVES AND EYE PROTECTION WHEN POURING MOLTEN LEAD.

2. Ballast weight total wieght should be 25 lbs for hang test (including ballast weight end cap). After hang test, weight may be changed depending on helicopter CG and pilot weight. Refer to hang test information in flight manual.

3. Ballast weight can be chrome plated. To prevent chrome from discoloring, lead must be added before plating.

Photo #1

Use print E22-2000 when constructing the ballast weight assembly.

Parts as received from RotorWay.

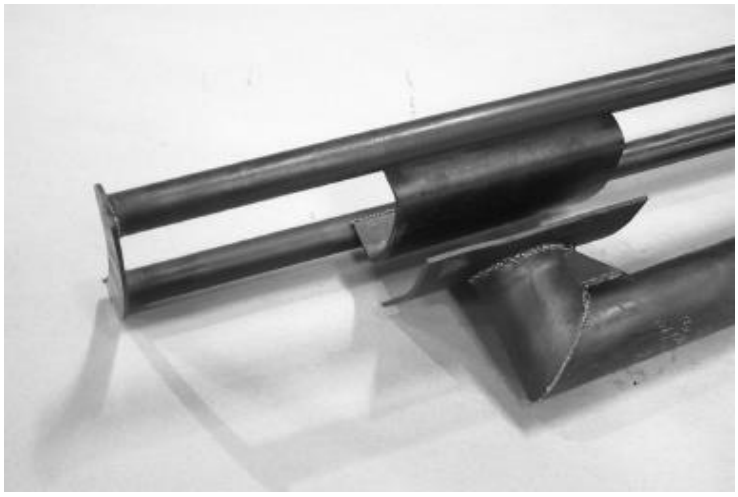

Photo #2

This view shows how the unit will fit together when installed. The two mount attachment pates must fit snug on each side of the tunnel cover. Apply a layer of silicone between each plate and the aluminum tunnel cover to help prevent the aluminum from cracking.

Photo #3

View looking inside the tail boom from the end. Position the mount so that the attachment plate just touches the skin. Shims can be added between the attachment plate and skin if there is a gap. .025 or .050 aluminum can be used with silicone. Use E00-2301 (3/16 x 5/8) bolts to attach the Support Tube Weldment to bulkheads 1 and 2**.**

Photo #4

The end plates must fit snug against the bulkheads. Add shims if necessary. Viewed from underneath, looking up.

Photo #5

View of the Mount Tube Weldment in place on the tail boom. Use bolts E00-2505 (5/16 x 7/8) to attach the Mount Tube Weldment to the internal Support Tube Weldment.

Photo #6

Ballast weight mounted with pin in place.