

10" TAGLINE FLOAT
+12LBS

TO LAUNCH:

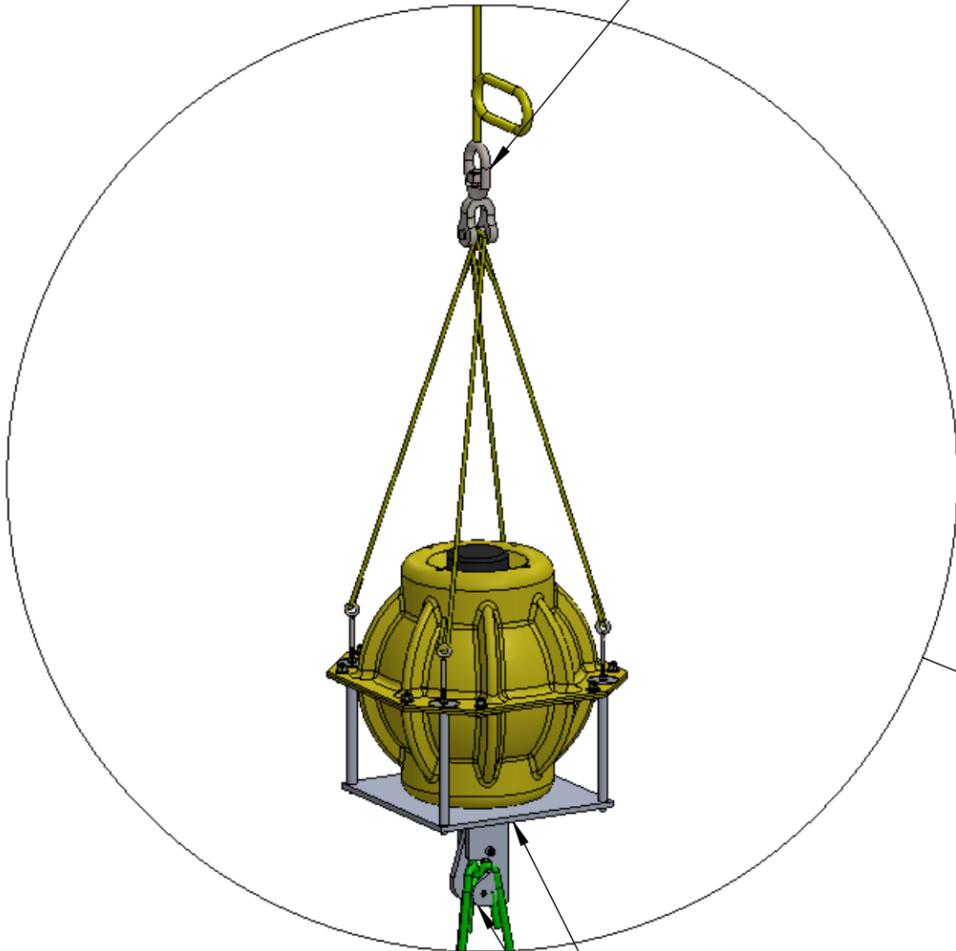
1. SHIP STARTS 200 METERS DOWN SWELL OF DROP POINT 1.5KN SOG.
2. BRIDGE WILL CALL OUT DISTANCE TO TARGET AT 50M INTERVALS.
3. LOWER THE TAGLINE FLOAT INTO THE WATER STREAM AT FANTAIL.
4. LOWER 150LB FLOAT ASSEMBLY INTO THE WATER WITH AIR TUGGER THROUGH WIDEMOUTH BLOCK ON A-FRAME AND QUICK RELEASE. WILL STREAM BEHIND SHIP.
5. LOWER BENCHMARK ASSEMBLY INTO WATER WITH AIR TUGGER THROUGH WIDEMOUNT BLOCK ON A-FRAME, QUICK RELEASE WHEN OVER TARGET.

TO RECOVER THE FLOAT ASSEMBLY:

1. TRANSPONDER BURNS THE WIRE (APPROX. 5 MINUTE BURN)
2. FLOATS COME TO THE SURFACE (APPROX 50M/MIN).
3. THROW GRAPPLING HOOK BETWEEN TAGLINE AND FLOAT ASSEMBLY
4. PULL TAGLINE FLOAT ON BOARD, REMOVE FLOAT
5. LIFT FLOAT ASSEMBLY AND ACOUSTIC RELEASE ON BOARD WITH CRANE OR AIR TUGGER THROUGH A-FRAME

150LB FLOAT ASSEMBLY
WITH RDF & STROBE
+70LBS

SWIVEL LINK



DETAIL A
SCALE 1 : 12

BENTHOS TR-6001
ACOUSTIC RELEASE

BURN WIRE RELEASE HOOK

TR-6001 TRANSPONDER
WITH BURNWIRE RELEASE
+3LBS

Fetch/Benchmark assembly
445LBS IN AIR
-135LBS IN SEAWATER

BENCHMARK LAUNCH ASSEMBLY -50LBS IN SEAWATER



MARINE PHYSICAL LABORATORY
AUV DEVELOPMENT LABORATORY
291 Rosecrans St. Bldg 4
San Diego, CA 92106
ph: 858-534-1785
fax: 858-534-5255
e: dvprice@ucsd.edu

BENCHMARK LAUNCH ASSEMBLY
BENCHMARK

DRAWING # 041614-05DP

REVISION: X09

041614-05DP.SLDDRW

6/21/2014

15.00M

1.68M

15.00M

3.60M