

|  |                          |                           |                               |            |  |   |          |
|--|--------------------------|---------------------------|-------------------------------|------------|--|---|----------|
| NAVY SHIPS PARTS CONTROL CENTER                          |                          |                           |                               | CODE IDENT |  | SPI NO.                                 |          |
| SPECIAL PACKAGING INSTRUCTION (SPI)                      |                          |                           |                               | 03950      |  | 10094                                   |          |
| NOMENCLATURE GYROSCOPE<br>SHIPPING & HANDLING CONTAINERS |                          |                           | NATIONAL STOCK NO.<br>VARIOUS |            |  | DATE<br>1 MAR 95                        | REV<br>C |
| QUP  | MAX. UNIT<br>PACKAGE WT. | MAX. UNIT<br>PACKAGE CUBE | MAX. UNIT<br>PACKAGE DIMS.    |            |  | DWN BY GLB<br>APP BY <i>[Signature]</i> |          |
| 1  | 119.0 LBS.               | 18.2 CU. FT.              | 35.38" X 30.38" X 29.0"       |            |  | SHEET 1 OF 3                            |          |

This special Packaging Instruction (SPI) relates to the selection of a Handling Case & Shipping/Storage Container for Gyroscopic Instruments with maximum dimensions of 16.93 in. x 11.93 in. x 11.50 in. and a weight range of 8.0 to 40.0 lbs.

MIL-STD-2073 PACKAGING DATA:

| H | M | QUP | ICQ | PRES<br>METH | C | PRES<br>MATL | WRAP<br>MATL | CUSH<br>DUNN | C | UNIT<br>CONT | L | INT<br>CTR | U<br>C | SPEC<br>MKG | PACK<br>ING | UNIT<br>PACK<br>WT | UNIT<br>PACK<br>CUBE | O<br>P<br>I |
|---|---|-----|-----|--------------|---|--------------|--------------|--------------|---|--------------|---|------------|--------|-------------|-------------|--------------------|----------------------|-------------|
| N |   | 001 | 000 | ZZ           | 1 | 00           | 00           | ZZ           | Z | ZZ           | A | 00         | A      | ZZ          | FFF         | 0119.0             | 18.200               | A           |

Section I. INSTRUCTIONS FOR USE OF THE HANDLING CASE

1. Preservation Procedure. After caging (when applicable), the item shall be sufficiently cushioned with PPP-C-1752, PPP-C-1797 or PPP-C-1842 material to prevent rupture of the barrier, and placed within MIL-B-131 barrier bag (Class 1 for an item under 10 lbs. or Class III for an item over 10 lbs). Evacuate, seal and package in accordance with MIL-P-116 Method IA (for a hermetically sealed item) or Method II (for a non-hermetically sealed item) unless otherwise specified.

2. Installation into Handling Case. The bagged item shall be centrally located and immobilized in the handling case using additional cushioning if required.

NOTE: Alternate to Handling Case. As an alternate, when the specified handling case is not available, the bagged item shall be centered and immobilized inside an ASTM-D-5118/5118M fiberboard container (formerly PPP-B-636, Type CF, class WR, Variety SW as a minimum). A minimum of one inch of cushioning (as specified above) shall be placed between all surfaces of the barrier and the inside of the fiberboard container. The outside dimensions of the fiberboard container shall not exceed 13 x 9 x 8 inches (330.2 x 228.6 x 203.2 mm).

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| NOMENCLATURE<br>Shipping and Handling Container | Gyroscope | NATIONAL STOCK NO.<br>VARIOUS | DATE<br>1 MAR 95 | REV<br>C |

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3. Installation into Exterior Container. The handling case or alternate fiberboard container shall be centered on the container platform and the length of the tie down straps adjusted to meet at the top of the handling case. Interlock the hardware (hook and buckle) and with the buckle at 90 to the strap, snug the adjustable straps, maintain snug adjustment and, in order to immobilize the handling case actuate the locking mechanism by rotating the buckle 90 to the horizontal position.

4. Marking. The exterior container shall be marked with the use of wire tags in accordance with MIL-STD-129. The handling case shall show only item identification markings as delineated in MIL-STD-129 for interior packs. All previous wire tag identification shall be removed prior to application of new tags.

4.1 When a fiberboard container is used in lieu of the specified handling case the following markings shall be applied to the fiberboard container:

"CONTENTS EXTREMELY DELICATE - HANDLE WITH CARE"  
 "HANDLING CASE ONLY - DO NOT USE AS A SHIPPING CONTAINER"  
 "SHIP IN CONTAINER 6KH 8145-01-016-3452"

Section II: ALTERNATE PACKAGING  
 MIL-STD-2073 PACKAGING DATA:

| H | M   | QUP | ICQ | PRES<br>METH | C  | D  | PRES<br>MATL | WRAP<br>MATL | CUSH<br>DUNN | C | T  | UNIT<br>CONT | L  | INT<br>CTR | U     | L      | SPEC<br>MKG | PACK<br>ING | UNIT<br>PACK<br>WT | UNIT<br>PACK<br>CUBE | O<br>P<br>I |
|---|-----|-----|-----|--------------|----|----|--------------|--------------|--------------|---|----|--------------|----|------------|-------|--------|-------------|-------------|--------------------|----------------------|-------------|
| N | 001 | 000 | DW  | 1            | 00 | 00 | ZZ           | Z            | ZZ           | A | 00 | A            | ZZ | FFF        | 000.0 | 00.000 | A           |             |                    |                      |             |

Alternate packaging may be used with prior approval of SPCC Code 05411 when the specified shipping and storage container is not available. To implement blocking and bracing specified in the above packaging code, the item shall be completely surrounded with a minimum of 3 inches (76mm) of PPP-C-795, PPP-C-1752, PPP-C-1797 or PPP-C-1842 cushioning material before insertion into a fiberboard inner container. A suitable sized outer container shall be selected from Aviation Supply Office SPI 80132-13414 (contact SPCC, Code 05411 to obtain a copy of this SPI). The selection shall be made on the basis that the inner container dimensions do not exceed the dimensions stated for "Cavity/Dummy Load Size" of Table I, of SPI 80132-13414. The inner container shall be centrally located in the cavity. Any remaining voids shall be filled with additional sheets of cushioning material in such a manner that the additional material makes contact with, but does not compress, the convolutions of the outer container's foam cushioning.

|   |  |                               |                  |          |
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PACKAGING INSTRUCTIONS FOR:  
INSTRUMENTS OF 15-24G FRAGILITY

TABLE I

| ITEM SIZE *  |                        |                        | SHIPPING/STORAGE CONTAINERS **   |
|--|------------------------|------------------------|--|
| MAX. LENGTH  | MAX. WIDTH             | MAX. HEIGHT            | NSN: 6K H 8145-01-016-3452   |
| 16.93 in.<br>(430 mm.)   | 11.93 in.<br>(303 mm.) | 11.50 in.<br>(292 mm.) | CONTAINER OPTION 1<br>ASO P/N: 80132-15024-200<br>O.D.: 35.38 x 30.38 x 29.0 in.<br>(899 x 772 x 737 mm.)<br>TARE WEIGHT: 73 lbs. (33.1 kg.)<br>Cube: 18.2 cu. ft. (.515 cu. m.)<br><br>CONTAINER OPTION 2<br>ASO P/N: 80132-15024-200A<br>O.D.: 31.75 x 28.25 x 27.25 in.<br>(806 x 718 x 692 mm.)<br>TARE WEIGHT: 79 lbs. (35.8 kg.)<br>Cube: 14.3 cu. ft. (.405 cu. m.) |
| ITEM WEIGHT *  |                        |                        |  |
| 8.0 - 40 lbs (3.63 - 18.14 kgs.)   |                        |                        |  |
| HANDLING CASE **   |                        |                        |  |
| ASO P/N: (80132)-15024-202<br>NSN: 1R M 8145-01-016-3445<br>O.D.: 17.63 x 12.63 x 12.38 in.<br>(438 x 321 x 314 mm.)<br>Tare Weight: 5.75 lbs. (2.6 kg.) |                        |                        |  |

\* Item as prepared in accordance with paragraph 1. (It's estimated that barrier and cushioning increase each bare item dimension by approximately 0.38 (10 mm)).

\*\* Contact SPCC Code 05411 for instructions regarding procurement.