

TEST REPORT

AMCO ENG CO.
AUG 13 1990
RECEIVED

AMCO ENGINEERING CO.
SCHILLER PARK, ILLINOIS
SHOCK TEST ON ONE (1)
AMCO CABINET

Test Conducted By: Robert M. Bruggeman
Robert M. Bruggeman

Test Approved By: REM Muri
Richard E. Muri
Laboratory Manager

JOB No. 90468

DATE 01 August 1990

ORDER No. 114726

GAYNES

TESTING LABORATORIES, LTD.

1642—52 West Fulton Street • Chicago, Illinois 60612 • Area Code 312/421-5257
Member: American Council of Independent Laboratories Fax No. 312/421-5337

GAYNES TESTING LABORATORIES, LTD.

ADMINISTRATIVE DATA

- I. NAME OF PART:
Cabinet
- II. MANUFACTURER:
Amoco Engineering Co.
- III. PURCHASE ORDER NUMBER:
114726 dated 01 August 1990
- IV. MANUFACTURER'S TYPE OR MODEL NUMBER:
FX
- V. DRAWING, SPECIFICATION OR EXHIBIT:
MIL-STD-910-D
- VI. DATE TEST COMPLETED:
One (1)
- VII. QUANTITY OF ITEM TESTED:
01 August 1990
- VIII. TEST CONDUCTED BY:
GAYNES TESTING LABORATORIES, LTD.
- IX. DISPOSITION OF SPECIMENS:
Returned to Amco Engineering Co.
- X. REASON FOR TEST:

The one (1) FX Cabinet submitted for test by Amco Engineering Co was subjected to a High Impact Shock Test in accordance with MIL-STD-910-D as described in the subsequent test procedure of this report.

This test was authorized by Amco Engineering Co. Purchase Order No. 114726 dated 01 August 1990

GAYNES TESTING LABORATORIES, LTD.

SHOCK TEST PROCEDURE

REQUIREMENTS:

Grade A items are required for the safety or continued combat capability of the ship. Design shall be suitable to withstand shock loading without significant effect on performance and without any portion of the equipment coming adrift or otherwise creating a hazard to personnel or vital systems (3.1.1).

TEST PROCEDURE:

The one (1) FX Cabinet shall be subjected to a Shock Test in accordance with MIL-STD-901-D as described below:

The test specimen shall be mounted using standoffs 2 3/4 inches high and 2 3/8 inch in diameter plus spacers to raise the cabinet base off the platform by 1/8 inch. The cabinet shall be mounted using four (4) 3/8 16 socket head bolts through the caster mounting holes to a platform no. (fixture) 11C as shown in Figure 12, modified by increasing the length from 24 inches to 36 inches of MIL-STD-901-D. The platform, in turn, shall be mounted to a light weight shock machine as shown in Figure 1 of MIL-S-901-D.

A total of nine (9) blows shall be applied, three (3) blows parallel to each of the three (3) mutually perpendicular axes of the test specimen. The three (3) blows for each direction to be with heights of hammer drop of 1 foot, 3 feet and 5 feet.

INSTRUMENTATION:

<u>Instrument or Equipment</u>	<u>Manufacturer</u>	<u>Model No.</u>	<u>Serial No.</u>
Shock Machine	L.A.B. Corp.	MIL-S-901 Lt. weight	E-154

TEST RESULTS:

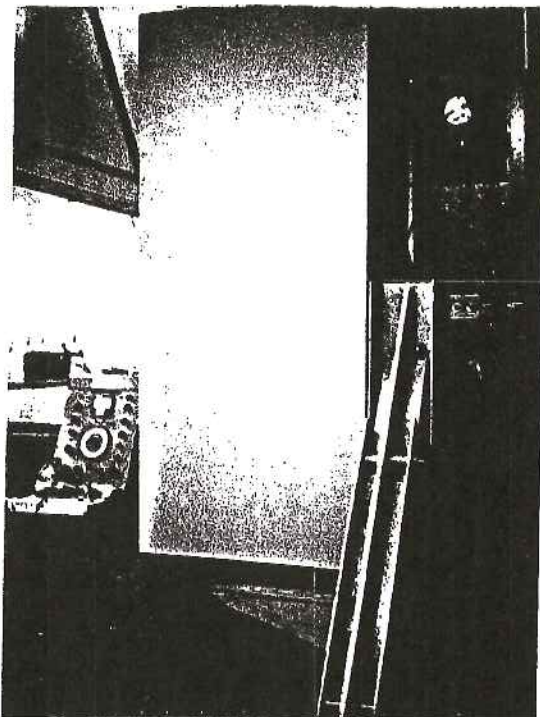
The one (1) FX Cabinet was subjected to a Shock Test in accordance with the aforementioned Test Procedure with the following results.

Inspection during and upon completion of test revealed no evidence of damage or deterioration as a result of the test conducted.

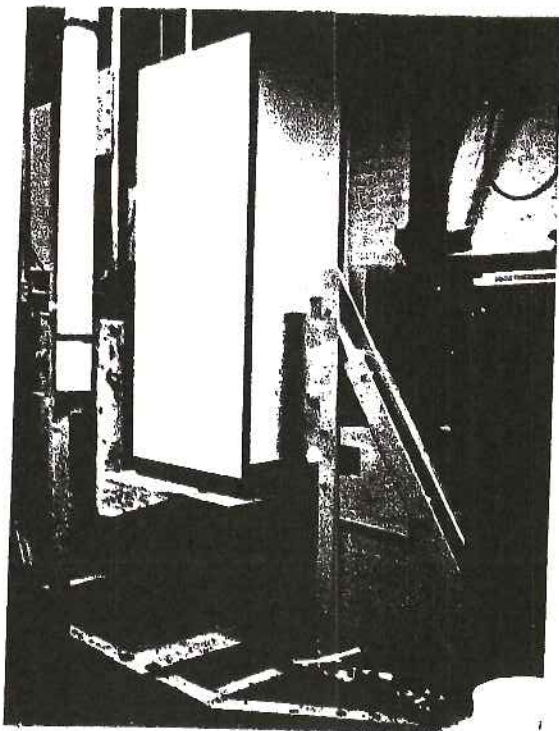
Testing was started and completed on 01 August 1990.

GAYNES TESTING LABORATORIES, LTD.

HIGH IMPACT SHOCK TEST



Side to Side Direction



Top to Bottom and Front to Back
Directions

AMCO ENGINEERING CO.
JOB NO. 86263

GAYNES TESTING LABORATORIES, INC.

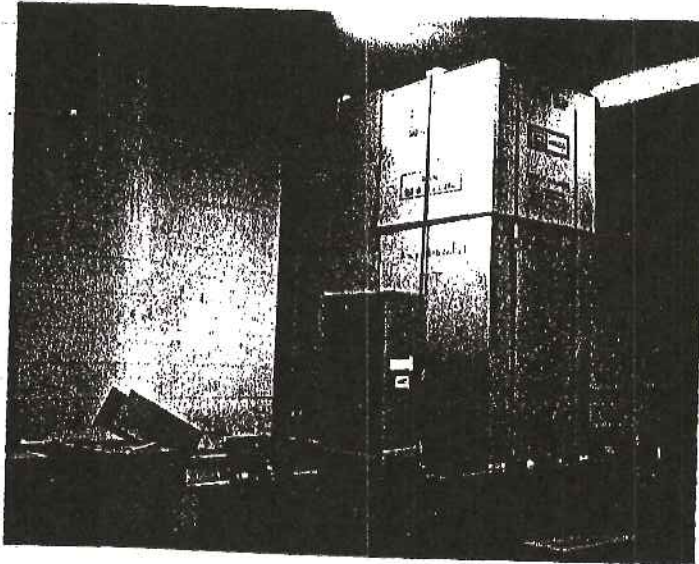


PHOTO NO. 9 - VEHICLE VIBRATION