

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

TABLE OF CONTENTS

PROBLEM NUMBER	DESCRIPTION	PAGE NUMBER
<u>INDEXES</u>		
	EQUIPMENT INDEX .....	ii
	ACTION INDEX .....	iii
	ORIGINATORS INDEX .....	iv
	DUE DATE SUMMARY .....	vi
<b>PROBLEMS</b>		
<u>16435</u>	BRU-14; EJECTOR/AUX RELEASE CADS FIRED.....	1
<u>16470</u>	BRU-14; AUXILIARY UNLOCK CABLE TOO SHORT.....	9
<u>16855</u>	BRU-15; LEMA FAILED TO OPERATE.....	11
<u>880690</u>	BRU-12; LEMA FAILED TO ACTUATE AND RELEASE STORE.....	14
<u>880895</u>	BRU-12; HOOK TIE LINKAGE WAS BINDING.....	16

NOTE: OPEN problems denoted by asterisk (\*) following problem number.

30-NOV-01

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16435 CLOSED

END ITEM : NOMENCLATURE PART/DOC. NO. FSC NIIN NALC  
: BOMB RACK EJECTOR 549AS400-1 1095 01-320-5988

EI CNTRL NO:

PROB BRIEF : BRU-14; EJECTOR/AUX RELEASE CADS FIRED

PROBLEM : Ordnance crew found Cartridge Actuated Device fired.  
DESCRIPTION

PREVENTIVE : None determined.  
ACTION

CORRECTIVE : Troubleshoot aircraft systems to determine problem.  
ACTION

OCCURRENCES:	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
	HS-6	EMR	R09950-01-0018	08AUG01	CLOSED
	HCS-5	CODR	R53812-01-0006	15JUN01	CLOSED
	HSL-46	CODR	V53916-01-5002	06APR01	CLOSED
	HSL-46	EMR	V53916-01-5001	21MAR01	CLOSED
	HSL-51	EMR	R55584-01-0007	05MAR01	CLOSED
	HS-5	EMR	M09488-01-0002	31JAN01	CLOSED
	HS-4	EMR	R09164-00-0015	24OCT00	CLOSED
	HS-3	EMR/EIR	V09163-98-0054	10SEP98	CLOSED *
	HSL-49	CODR/EIR	R53919-98-0003	29MAY98	CLOSED *
	HSL-47	EIR	R53917-98-0011	15MAY98	CLOSED *
	HSL-47	EIR	R53917-98-0010	05MAY98	CLOSED *

\* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : HS-6 EMR R09950-01-0018 08AUG01 CLOSED

END ITEM : PART/DOC. NO. FSC NIIN NALC  
: 549AS400-1 1095 01-320-5988  
NOMEN: BOMB RACK EJECTOR  
S/N: UNKNOWN  
FAILED PART: 549AS400-1 1095 01-320-5988  
NOMEN: BOMB RACK EJECTOR

DESCRIPTION:

While performing release and control checks on the starboard inboard station of aircraft 614, the maintenance personnel failed to ensure that the cartridge activated devices were removed from the starboard station. Step four of the AL-H60HA-lWS-200 checklist under aircraft preparation was skipped resulting in the inadvertent firing of the ignition elements.

30-NOV-01

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16435

(Continued)

**ACTION TAKEN:**

09AUG01: During review of the reported incident, RTSC Indianapolis concurred with the submittal of the deficiency report for tracking purposes only. HS-6's participation in AWCAP is greatly appreciated. Closing action.

<b>ACTION</b>	<b>:</b>	<b>ACTIVITY/CODE</b>	<b>ASSIGNMENT</b>	<b>DUE DATE</b>	<b>STATUS</b>
<b>SUMMARY</b>		RTSC INDIANAPOLIS/CNPCCO	CLOSE PROBLEM		COMPLETE 09AUG01

<b>REFERENCES</b>	<b>:</b>	<b>IDENTIFICATION</b>	<b>REFERENCE BRIEF</b>
		HS-6 MESSAGE 082200ZAUG01	PROBLEM REPORTED
		RTSC INDIANAPOLIS/CNPCCO CFA REVIEW 09AUG01	PROBLEM CLOSING

<b>ACTION</b>	<b>:</b>	<b>HCS-5</b>	<b>CODR</b>	<b>R53812-01-0006</b>	<b>15JUN01</b>	<b>CLOSED</b>	
		<b>END ITEM</b>	<b>:</b>	<b>PART/DOC. NO.</b>	<b>FSC</b>	<b>NIIN</b>	<b>NALC</b>
				549AS400-1	1095	01-320-5988	
				<b>NOMEN:</b> BOMB RACK EJECTOR			
				<b>S/N:</b> UNKNOWN			
		<b>FAILED PART:</b>		549AS400-1	1095	01-320-5988	
				<b>NOMEN:</b> BOMB RACK EJECTOR			

**DESCRIPTION:**

The auxiliary tank was jettisoned during release and control check of BRU-14/A with M299 launcher installed.

**ACTION TAKEN:**

18JUN01: During review of the reported incident, RTSC Indianapolis concurred with the submittal of the deficiency report for tracking purposes only. Repair bomb rack as required. HCS-5's participation in AWCAP is greatly appreciated. Closing action.

<b>ACTION</b>	<b>:</b>	<b>ACTIVITY/CODE</b>	<b>ASSIGNMENT</b>	<b>DUE DATE</b>	<b>STATUS</b>
<b>SUMMARY</b>		RTSC INDIANAPOLIS/CNPCCO	CLOSE PROBLEM		COMPLETE 18JUN01

<b>REFERENCES</b>	<b>:</b>	<b>IDENTIFICATION</b>	<b>REFERENCE BRIEF</b>
		HCS-5 MESSAGE 151905ZJUN01	PROBLEM REPORT
		RTSC INDIANAPOLIS/CNPCCO CFA REVIEW 18JUN01	PROBLEM CLOSING

30-NOV-01

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16435

(Continued)

ACTION : HSL-46 CODR V53916-01-5002 06APR01 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	549AS400-1	1095	01-320-5988	
	NOMEN: BOMB RACK EJECTOR			
	S/N: UNKNOWN			
SUB-ASSY :	549AS247-1	3010	00-127-4574	
	NOMEN: ACTUATOR ASSEMBLY, IFOBAL			
FAILED PART:	MS20392-3C19	5315	00-812-1216	
	NOMEN: PIN, STRAIGHT, HEADED			

**DESCRIPTION:**

The torpedo load team performed four satisfactory release and control checks prior to loading the MK-46 store for torpedo exercise on the Atlantic Fleet Weapons Training Facility range. The aircrew successfully launched the torpedo and returned to the ship for crew swap/ rearming. During postflight, the de-arming, load team discovered the auxiliary in-flight operable bomb rack lock cartridge actuated device had fired. The tail arming solenoid retained the arming wire. The bomb rack secondary release assembly cartridge actuated device did not fire. Maintenance personnel replaced the bomb rack. The load team completed two full release and control checks with no defects noted. Subsequent store load, drop, and de-arming were performed without incident.

**ACTION TAKEN:**

09APR01: Initial response to Report. Shipping instructions provided.  
08MAY01: Interim findings: Rack and wiring were inspected for anomalies; initial findings were auxiliary unlock assembly was fired and linkage to IFOBRL was broken. No visual discrepancies could be found with the wiring, and the AUX unlock switch assembly appeared to be within drawing specs. Auxiliary release assembly was repaired and rack was tested on CRALTS tester with no discrepancies noted. AWCAP records for the BRU-14 on all aircraft models including P-3 and S-3, show eight unexplained CAD firings. The H-60 community is the only community reporting unexplained CAD firings. It is noteworthy that no incidents were reported prior to Nov 97. Several scenarios could have caused these incidents, but the one common element they have is flying in close proximity to small ships that may be generating a powerful radar signal. The BRU-14 has no RAD HAZ filter to prevent inadvertent firings or transmission of radar signals to the ASQ-198. With this evidence, originator believes an EI is warranted to perform testing to evaluate the racks vulnerability to radar or other possible EMF sources to determine the cause of these incidents and develop a resolution.  
23MAY01: Exhibit rack received in good condition on Julian Date 01149.  
09JUL01: Findings: Rack and wiring were inspected for anomalies. The

**BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

**PROBLEM NO: 16435**

**(Continued)**

only discrepancy found was broken linkage to Auxiliary Unlock assembly. No discrepancies were found with Auxiliary Unlock switch cable or Auxiliary Unlock assembly. Auxiliary Unlock assembly was replaced to facilitate CRALTS testing. CRALTS test found no discrepancies. The M55 CAD was not in the range of the SPS-49 radar and that HERO should not be considered as a cause of this incident. The H-60 community is the only community reporting unexplained CAD firings with the BRU-14 bomb rack. All reported firings occurred during a flight where normal release was utilized. In each instance the rack inspection found no defects to cause the incident. Conclusions: The bomb rack did not cause this incident or previously reported incidents. Liaison with the H-60 FST supports the conclusion that these failures are caused by H-60 weapons control system. Recommendations: This problem being turned over to the H-60 FST for action. Bomb rack being returned to NAVSTA Mayport AIMD. Request AIMD perform a 224 day inspection and return rack to service. HSL-46's participation in AWCAP is greatly appreciated. Closing action.

<b>ACTION :</b>	<b>ACTIVITY/CODE</b>	<b>ASSIGNMENT</b>	<b>DUE DATE</b>	<b>STATUS</b>
<b>SUMMARY</b>	RTSC INDIANAPOLIS/CNPCOO	INVESTIGATE		COMPLETE 09JUL01

<b>REFERENCES :</b>	<b>IDENTIFICATION</b>	<b>REFERENCE BRIEF</b>
	HSL-46 MESSAGE 061700ZAPR01	PROBLEM REPORTED
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 090749ZAPR01	INITIAL RESPONSE
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 081630ZMAY01	INTERIM RESPONSE
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 290759ZMAY01	RECEIPT OF EXHIBIT RACK
	RTSC INDIANAPOLIS/CNPCOO MESSAGE 091650ZJUL01	PROBLEM CLOSING

<b>ACTION :</b>	<b>HSL-46</b>	<b>EMR</b>	<b>V53916-01-5001</b>	<b>21MAR01</b>	<b>CLOSED</b>
	<b>END ITEM :</b>	<b>PART/DOC. NO.</b>	<b>FSC</b>	<b>NIIN</b>	<b>NALC</b>
		549AS400-1	1095	01-320-5988	
		<b>NOMEN:</b> BOMB RACK EJECTOR			
		<b>S/N:</b> UNKNOWN			
	<b>FAILED PART:</b>	549AS400-1	1095	01-320-5988	
		<b>NOMEN:</b> BOMB RACK EJECTOR			

**DESCRIPTION:**

The torpedo load team performed four satisfactory release and control checks prior to loading the MK-46 store for torpedo exercise on the Atlantic Fleet Weapons Training Facility range. The aircrew

**BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

**PROBLEM NO: 16435**

**(Continued)**

successfully launched the torpedo and returned to the ship for crew swap/ rearming. During postflight, the de-arming, load team discovered the auxiliary in-flight operable bomb rack lock cartridge actuated device had fired. The tail arming solenoid retained the arming wire. The bomb rack secondary release assembly cartridge actuated device did not fire. Maintenance personnel replaced the bomb rack. The load team completed two full release and control checks with no defects noted. Subsequent store load, drop, and de-arming were performed without incident.

**ACTION TAKEN:**

09APR01: Initial response to EMR report.

09JUL01: Findings: Rack and wiring were inspected for anomalies. The only discrepancy found was broken linkage to Auxiliary Unlock assembly. No discrepancies were found with Auxiliary Unlock switch cable or Auxiliary Unlock assembly. Auxiliary Unlock assembly was replaced to facilitate CRALTS testing. CRALTS test found no discrepancies. The M55 CAD was not in the range of the SPS-49 radar and that HERO should not be considered as a cause of this incident. The H-60 community is the only community reporting unexplained CAD firings with the BRU-14 bomb rack. All reported firings occurred during a flight where normal release was utilized. In each instance the rack inspection found no defects to cause the incident.

Conclusions: The bomb rack did not cause this incident or previously reported incidents. Liaison with the H-60 FST supports the conclusion that these failures are caused by H-60 weapons control system.

Recommendations: This problem being turned over to the H-60 FST for action. Bomb rack being returned to NAVSTA Mayport AIMD. Request AIMD perform a 224 day inspection and return rack to service. HSL-46's participation in AWCAP is greatly appreciated. Closing action.

<b>ACTION</b>	<b>:</b>	<b>ACTIVITY/CODE</b>	<b>ASSIGNMENT</b>	<b>DUE DATE</b>	<b>STATUS</b>
<b>SUMMARY</b>		RTSC INDIANAPOLIS/CNPCCO	INVESTIGATE		COMPLETE 09JUL01

<b>REFERENCES</b>	<b>:</b>	<b>IDENTIFICATION</b>	<b>REFERENCE BRIEF</b>
		HSL-46 MESSAGE 210145ZMAR01	PROBLEM REPORTED
		RTSC INDIANAPOLIS/CNPCCO MESSAGE 090749ZAPR01	INITIAL RESPONSE
		RTSC INDIANAPOLIS/CNPCCO MESSAGE 091650ZJUL01	PROBLEM CLOSING

30-NOV-01

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16435 (Continued)

<b>ACTION</b>	<b>:</b>	<b>HSL-51</b>	<b>EMR</b>	<b>R55584-01-0007</b>	<b>05MAR01</b>	<b>CLOSED</b>		
			<b>PART/DOC. NO.</b>		<b>FSC</b>	<b>NIIN</b>	<b>NALC</b>	
<b>END ITEM</b>	<b>:</b>		549AS400-1		1095	01-320-5988		
			<b>NOMEN:</b> BOMB RACK EJECTOR					
			<b>S/N:</b> UNKNOWN					
<b>SUB-ASSY</b>	<b>:</b>		549AS247-1		3010	00-127-4574		
			<b>NOMEN:</b> ACTUATOR ASSEMBLY, IFOBAL					
<b>FAILED PART:</b>			549AS124-1		5340	00-132-4267		
			<b>NOMEN:</b> BRACKET, ANGLE					

**DESCRIPTION:**

Prior to the weapons load, the release and control checks were performed on both port and starboard BRU-14 bomb racks in accordance with LWS-200. No abnormalities were observed. The MK 46 recovery exercise torpedoes were loaded on the port aft and starboard aft weapon stations in accordance with LWS 370. The pre-flight and launch checklists for the AN/ASQ-198 armament control indicator panel were conducted in accordance with the SH060B naval air training and operating procedures standardization. The store was released on the port aft station and no delays or abnormalities were observed by the aircrew. Post flight inspection revealed the M55 cartridge actuated device on the port bomb rack had fired. The expended cartridge actuated device was removed from bomb rack. The bomb rack was turned in to AIMD for replacement of the sheared in-flight operable bomb rack lock linkage.

**ACTION TAKEN:**

06MAR01: During review of the reported incident, RTSC Indianapolis concurred with the submittal of the deficiency report for tracking purposes only. Repair bomb rack as required. HSL-51's participation in AWCAP is greatly appreciated. Closing action.

<b>ACTION</b>	<b>:</b>	<b>ACTIVITY/CODE</b>	<b>ASSIGNMENT</b>	<b>DUE DATE</b>	<b>STATUS</b>
<b>SUMMARY</b>		RTSC	CLOSE PROBLEM		COMPLETE 06MAR01
		INDIANAPOLIS/CNPCOO			

<b>REFERENCES</b>	<b>:</b>	<b>IDENTIFICATION</b>	<b>REFERENCE BRIEF</b>
		HSL-51 MESSAGE 050140ZMAR01	PROBLEM REPORTED
		RTSC INDIANAPOLIS/CNPCOO CFA REVIEW	PROBLEM CLOSING
		06MAR01	

30-NOV-01

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16435 (Continued)

ACTION : HS-5 EMR M09488-01-0002 31JAN01 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	549AS400-1	1095	01-320-5988	
	NOMEN: BOMB RACK EJECTOR			
	S/N: UNKNOWN			
FAILED PART:	549AS400-1	1095	01-320-5988	
	NOMEN: BOMB RACK EJECTOR			

DESCRIPTION:

The aircraft flew torpedo-ex mission configured with the port fuel tank and starboard torpedo. The aircraft hot seated into log run after the starboard torpedo launched. Upon return to the base and final shutdown, ordnance team member de-armed the port fuel tank only. When the release and control checks were performed, the ordnance supervisor failed to adhere to steps which require the removal of ignition elements from both the port and starboard BRU-14/A stations. Step four in NAVAIR A1-H60FB-LWS-200 called for depressing all stores jettison, which resulted in detonation of the starboard BRU-14/A M55 and MK 17 cartridge actuated device. No CFA response was required.

ACTION TAKEN:

01FEB01: During review of the reported incident, RTSC Indianapolis concurred with the submittal of the deficiency report for tracking purposes only. Repair bomb rack as required. HS-5's participation in AWCAP is greatly appreciated. Closing action.

ACTION SUMMARY	ACTIVITY/CODE	ASSIGNMENT	DUE DATE	STATUS
	RTSC	CLOSE PROBLEM		COMPLETE 01FEB01
	INDIANAPOLIS/CNPCOO			

REFERENCES	IDENTIFICATION	REFERENCE BRIEF
	HS-5 MESSAGE 311200ZJAN01	PROBLEM REPORT
	RTSC INDIANAPOLIS/CNPCOO CFA REVIEW	PROBLEM CLOSING
	01FEB01	

ACTION : HS-4 EMR R09164-00-0015 24OCT00 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	549AS400-1	1095	01-320-5988	
	NOMEN: BOMB RACK EJECTOR			
	S/N: UNKNOWN			
FAILED PART:	549AS400-1	1095	01-320-5988	
	NOMEN: BOMB RACK EJECTOR			

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16435

(Continued)

**DESCRIPTION:**

During laser boresight procedures, the port outboard BRU-14 M55 and MK-17 cads fired, dropping the M299 launcher to the deck. Two latch /unlatch handles were broken on the launcher, however the launcher is currently fully operational. The left outboard select jettison button was stuck in the down position causing the cads to fire when the master arm switch was activated. No weapons were loaded, however, CADs were still installed on stations containing stores. There are two relevant warnings. One states "ensure weapons are removed or made safe". The second warning reads (abbreviated to save space) "if the master arm switch is set to arm, power is also applied to the select jettison panel and the armament controller receiver-transmitter. The armament armed advisory capsule on the caution/advisory panel shall go on indicating the system is armed. With the system armed, inadvertent jettison is possible. The BRU-14/A bomb racks contain explosive devices. Inadvertent jettison may cause injury to personnel or damage to equipment. The NAVAIR document does not specifically state to remove cartridge actuated device which is required.

**ACTION TAKEN:**

26OCT00: During review of the reported incident, RTSC Indianapolis concurred with the submittal of the deficiency report for tracking purposes only. HSL-4's participation in AWCAP is greatly appreciated. Closing action.

<b>ACTION</b>	<b>:</b>	<b>ACTIVITY/CODE</b>	<b>ASSIGNMENT</b>	<b>DUE DATE</b>	<b>STATUS</b>
<b>SUMMARY</b>		RTSC INDIANAPOLIS/CNPCOO	CLOSE PROBLEM		COMPLETE 26OCT00

<b>REFERENCES</b>	<b>:</b>	<b>IDENTIFICATION</b>	<b>REFERENCE BRIEF</b>
		HS-4 MESSAGE 241615ZOCT00	PROBLEM REPORTED
		RTSC INDIANAPOLIS/CNPCOO CFA REVIEW 26OCT00	PROBLEM CLOSING

30-NOV-01

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16470 CLOSED

END ITEM : NOMENCLATURE PART/DOC. NO. FSC NIIN NALC  
: BOMB RACK EJECTOR 549AS400-1 1095 01-320-5988

EI CNTRL NO:

PROB BRIEF : BRU-14; AUXILIARY UNLOCK CABLE TOO SHORT

PROBLEM : BRU-14 Auxiliary unlock cable found broken from its connection at  
DESCRIPTION : rear of auxiliary unlock housing.

PREVENTIVE : Ensure Proper clamping procedures are used to secure electrical  
ACTION : cable. Ensure electrical cable part number 549AS348 is used vice  
part number 549AS248.

CORRECTIVE : Ensure clamping instructions are followed and that the auxiliary  
ACTION : unlock cable with the 11-inch cable (P/N 549AS348) is used.

OCCURRENCES:	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
	HS-10	CODR/EIR	R09299-00-0023	26OCT00	CLOSED
	HS-10	CODR	R09299-00-0018	15AUG00	CLOSED *
	HS-3	CODR	V09163-99-0025	15OCT99	CLOSED *
	HS-10	CODR/EIR	R09299-98-0030	28OCT98	CLOSED *
	HS-8	CODR/EIR	R09951-98-0005	07OCT98	CLOSED *

\* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : HS-10 CODR/EIR R09299-00-0023 26OCT00 CLOSED

END ITEM : PART/DOC. NO. FSC NIIN NALC  
: 549AS400-1 1095 01-320-5988

NOMEN: BOMB RACK EJECTOR  
S/N: SLL0121, RFW0225, RFW0405

FAILED PART: 549AS348 6150 01-414-6802  
NOMEN: CABLE, AUX UNLOCK

DESCRIPTION:

Fully opened radius on the stores pylon access panel exceeds maximum length of the auxiliary unlock connector cable (P522) on BRU-14A. Severe cable tension is observed when performing routine maintenance and inspections. Request Engineering Investigation and CFA response. BRU-14A Serial Number RFW0405, RFW 0225, SLL0121, are being held at NAS North Island AIMD pending an investigation.

ACTION TAKEN:

06DEC00: Preliminary investigation accomplished via telephone.  
08DEC00: Two possible means exist to correct this deficiency:  
Redesign the switch to make the attaching points of the cable to the switch more durable or increase the length of cable one and one half

30-NOV-01

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16470

(Continued)

inches to allow the door to be opened completely without placing strain on the attaching point of the cable to the switch. Conclusion: Lengthening of the cable one and one half inches will not affect form, fit or function of PN 549AS348 and can be accomplished without causing interference with other aircraft applications. Recommend FST process a class 2 ECP to PN 549AS348, to increase the length of the cable one and one half inches with replacement to be accomplished through attrition. HS-10's participation in AWCAP is greatly appreciated. Closing action.

<b>ACTION</b>	<b>:</b>	<b>ACTIVITY/CODE</b>	<b>ASSIGNMENT</b>	<b>DUE DATE</b>	<b>STATUS</b>
<b>SUMMARY</b>		RTSC INDIANAPOLIS/CNPCOO	INVESTIGATE		COMPLETE 08DEC00

<b>REFERENCES</b>	<b>:</b>	<b>IDENTIFICATION</b>	<b>REFERENCE BRIEF</b>
		HS-10 MESSAGE 261300ZOCT00	PROBLEM REPORTED
		RTSC INDIANAPOLIS/CNPCOO TELEPHONE 06DEC00	INITIAL RESPONSE
		RTSC INDIANAPOLIS/CNPCOO MESSAGE 080937ZDEC00	PROBLEM CLOSING

30-NOV-01

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16855 CLOSED

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	LEMA	549AS446	3010	01-315-6915	
	BOMB RACK, AIRCRAFT	557AS500-1	1095	01-441-0827	

EI CNTRL NO:

PROB BRIEF : BRU-15; LEMA FAILED TO OPERATE

PROBLEM : Linear Electromagnetic Actuator (LEMA) failed to operate during  
DESCRIPTION operation/testing.

PREVENTIVE : Ensure operational checks are completed before the loading of  
ACTION weapons/stores.

CORRECTIVE : Squadrons develop local procedures to add to the daily inspection to  
ACTION verify the LEMA is in the released position.

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	RAYTHEON	CODR	Q95704-00-0039	09JAN01	CLOSED
	NAS BRUNSWICK AIMD	CODR	N44314-00-0039	28AUG00	CLOSED

ACTION : RAYTHEON CODR Q95704-00-0039 09JAN01 CLOSED

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	549AS446	3010	01-315-6915	
	NOMEN: LEMA			
	S/N: 4883			
FAILED PART:	549AS446	3010	01-315-6915	
	NOMEN: LEMA			
	S/N: 4883			

DESCRIPTION:

It was reported that excessive plunger protrusion when LEMA cocked, causing the bellcrank to actuate unintentionally. NAS Brunswick requested exhibit for observation. CFA verified the LEMA plunger out of specifications and contacted manufacturer, who requested the exhibit for an Engineering Investigation. NAS Brunswick reported that manufacturer trimmed the end of the plunger, "off" to expose the threaded guide. This confirmed the plunger had rotated on the threads, extending the plunger in the cocked position. The assembly process requires expoxolite to join the threads of the steel spring guide and the aluminum plunger to eliminate rotation of the plunger. The threads of the exhibit show no signs of expoxolite being applied. Expoxolite is extremely strong and the metal components joined would tear before the expoxolite would separate. In conclusions, the deficiency was caused by human error. The technician failed to follow established procedures during manufacture. However, due to the large number of LEMA's built with

**BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM**

**PROBLEM NO: 16855**

**(Continued)**

no similar failures reported, this is considered an isolated incident. It is recommended to continue to use LEMA's with the manufacturing code 21441. Although the defective LEMA is out of warranty, due to the nature of the failure, manufacturer has offered to replace the LEMA at no charge. The new LEMA being shipped to this activity and will be forwarded to NAS Brunswick upon receipt. This is considered a closing action.

**ACTION TAKEN:**

10JAN01: During review of the reported incident, RTSC Indianapolis concurred with the submittal of the deficiency report for tracking purposes only. Repair bomb rack as required. NAS Brunswick's participation in AWCAP is greatly appreciated. Closing action.

<b>ACTION SUMMARY</b>	<b>:</b>	<b>ACTIVITY/CODE</b>	<b>ASSIGNMENT</b>	<b>DUE DATE</b>	<b>STATUS</b>
		RTSC INDIANAPOLIS/CNPCOO	CLOSE PROBLEM		COMPLETE 13JAN01

<b>REFERENCES</b>	<b>:</b>	<b>IDENTIFICATION</b>	<b>REFERENCE BRIEF</b>
		RAYTHEON MESSAGE 090634ZJAN01	PROBLEM REPORTED
		RTSC INDIANAPOLIS/CNPCOO CFA REVIEW 10JAN01	PROBLEM CLOSING

<b>ACTION</b>	<b>:</b>	<b>NAS BRUNSWICK AIMD</b>	<b>CODR</b>	<b>N44314-00-0039</b>	<b>28AUG00</b>	<b>CLOSED</b>	
		<b>END ITEM</b>	<b>:</b>	<b>PART/DOC. NO.</b>	<b>FSC</b>	<b>NIIN</b>	<b>NALC</b>
				557AS500-1	1095	01-441-0827	
		<b>FAILED PART:</b>		<b>NOMEN:</b> BOMB RACK, AIRCRAFT			
				<b>S/N:</b> UNKNOWN			
				549AS446	3010	01-315-6915	
				<b>NOMEN:</b> LEMA			
				<b>S/N:</b> 4883			

**DESCRIPTION:**

LEMA failed test during 224-day maintenance check. Plunger protrudes too far when cocked, causing bellcrank to actuate unintentionally.

**ACTION TAKEN:**

30AUG00: Ship defective LEMA to CFA. Prepare exhibit for shipment and ship to Raytheon Technical Services Co.  
09JAN01: Findings: Manufacturer trimmed the end of the plunger off to expose the threaded guide. This confirmed the plunger had rotated on the threads, extending the plunger in the cocked position. The assembly process requires expoxolite to join the threads of the steel spring guide and the aluminum plunger to eliminate rotation of the plunger. The threads of the exhibit show no signs of expoxolite being applied. Expoxolite is extremely strong and the metal components joined would tear before the expoxolite would separate.

30-NOV-01

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 16855

(Continued)

Conclusions: Deficiency caused by human error. Technician failed to follow established procedures during manufacture. However, due to the large number of LEMAs built with no similar failures reported, this is considered an isolated incident.

Recommendations: Continue to use LEMAs with manufacturer's code 21441. NAS Brunswick's participation in AWCAP is greatly appreciated. Closing action.

<b>ACTION</b>	<b>:</b>	<b>ACTIVITY/CODE</b>	<b>ASSIGNMENT</b>	<b>DUE DATE</b>	<b>STATUS</b>
<b>SUMMARY</b>		RTSC	INVESTIGATE		COMPLETE 09JAN01
		INDIANAPOLIS/CNPCCO			

<b>REFERENCES</b>	<b>:</b>	<b>IDENTIFICATION</b>	<b>REFERENCE BRIEF</b>
		NAS BRUNSWICK AIMD MESSAGE 281500ZAUG00	PROBLEM REPORTED
		RTSC INDIANAPOLIS/CNPCCO MESSAGE	INITIAL RESPONSE
		301407ZAUG00	
		RTSC INDIANAPOLIS/CNPCCO MESSAGE	PROBLEM CLOSING
		090634ZJAN01	

30-NOV-01

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 880690

CLOSED

END ITEM	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
:	RACK, BOMB, AIRCRAFT	531AS100-1	1095	00-119-4168	
	BOMB RACK ASSY	531AS200-1	1095	01-441-0826	

EI CNTRL NO:

PROB BRIEF : BRU-12; LEMA FAILED TO ACTUATE AND RELEASE STORE

PROBLEM : Linear Electromagnetic Actuator (LEMA) failed to actuate and release  
DESCRIPTION store.

PREVENTIVE : Ensure all preflight checks are conducted and verify Cannon Plug  
ACTION connection.

CORRECTIVE : Connect LEMA Unit Cannon Plug.  
ACTION

REFERENCES	IDENTIFICATION	REFERENCE BRIEF
:	NAVAIR HP LTR 3162 03AUG87	CLOSURE AUTHORITY

OCCURRENCES:	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
	VP-40	CODR	R09674-01-0016	25JUL01	CLOSED
	VP-46	CODR	R09632-96-0024	17OCT96	CLOSED *
	VP-45	CODR/EIR	V09665-95-0015	04DEC95	CLOSED *
	VP-19	EMR	R09179-87-0006	19FEB87	CLOSED *
	HS-12	EIR	V09203-87-0012	04FEB87	CLOSED *
	VMO-2	EMR	M09444-87-0011	30JAN87	CLOSED *
	VP-4	EMR	R09623-87-0005	28JAN87	CLOSED *
	VMO-1	EMR	M09421-86-0022	10DEC86	CLOSED *
	VMO-2	EMR/TFOA	M09444-86-0068	11NOV86	CLOSED *
	VP-56	EIR	V09266-86-0032A	26SEP86	CLOSED *
	VP-10	EMR	V09639-86-0013	22SEP86	CLOSED *
	VP-1	EMR	R09618-86-0021	19SEP86	CLOSED *
	VP-1	EMR	R09618-86-0021A	19SEP86	CLOSED *
	VP-22	HMR	R09649-86-0008	14JUL86	CLOSED *
	VP-16	EMR/HMR	V09229-86-0008	29MAY86	CLOSED *
	MALS-29	HMR	M52841-86-0021	09MAY86	CLOSED *
	VP-40	EMR	R09674-86-0017	09MAY86	CLOSED *
	VP-50	EMR/EIR	R09286-86-0037	09MAY86	CLOSED *
	VP-50	EMR/EIR	R09286-86-0038	09MAY86	CLOSED *
	VP-50	EMR/EIR	R09286-86-0036	08MAY86	CLOSED *
	VP-50	EMR/EIR	R09286-86-0034	01MAY86	CLOSED *
	VP-9	EMR	R09644-86-0006	24APR86	CLOSED *
	VP-6	EMR	R09624-86-0008	15APR86	CLOSED *
	VP-46	EMR	R09632-86-0006	12MAR86	CLOSED *

\* ACTION REPORTED IN PREVIOUS PUBLICATION

30-NOV-01

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 880690

(Continued)

SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
VP-22	HMR/EIR	R09649-86-0003	28FEB86	CLOSED *
VMO-2	EMR/EIR	M09444-86-0007	04FEB86	CLOSED *
VP-16	EMR	V09229-86-0001	19JAN86	CLOSED *
VP-6	EMR	R09624-86-0002	13JAN86	CLOSED *
VMO-1	EMR/EIR	M09421-85-0017A	11SEP85	CLOSED *
VMO-1	EMR/EIR	M09421-85-0017	10SEP85	CLOSED *
VMO-2	HMR	M09444-85-0016	05APR85	CLOSED *
VP-56	EIR	V09266-84-0001	16APR84	CLOSED *

\* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : VP-40 CODR R09674-01-0016 25JUL01 CLOSED

END ITEM	PART/DOC. NO.	FSC	NIIN	NALC
531AS200-1		1095	01-441-0826	
NOMEN: BOMB RACK ASSY				
S/N: UNKNOWN				
FAILED PART:	531AS200-1	1095	01-441-0826	
NOMEN: BOMB RACK ASSY				

DESCRIPTION:

The BDU-45 which was loaded on the bomb bay station five would not release from the aircraft. Upon return of the aircraft, the bomb rack was safed. LEMA was discovered to be fired but the hooks were still closed. During the download, the weapon was found to be over-swayed which caused the prevention of the weapon to release. Release and control checks were performed with no discrepancies found. No CFA response was requested.

ACTION TAKEN:

02AUG01: During review of the reported incident, RTSC Indianapolis concurred with the submittal of the report for tracking purposes only. VP-40's participation in AWCAP is greatly appreciated. Closing action.

ACTION SUMMARY	ACTIVITY/CODE	ASSIGNMENT	DUE DATE STATUS
	RTSC INDIANAPOLIS/CNPCOO	CLOSE PROBLEM	COMPLETE 02AUG01

REFERENCES	IDENTIFICATION	REFERENCE BRIEF
	VP-40 MESSAGE 251600ZJUL01	PROBLEM REPORTED
	RTSC INDIANAPOLIS/CNPCOO CFA REVIEW 02AUG01	PROBLEM CLOSING

30-NOV-01

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 880895 CLOSED

END ITEM : NOMENCLATURE PART/DOC. NO. FSC NIIN NALC  
RACK, BOMB, AIRCRAFT 531AS100-1 1095 00-119-4168

EI CNTRL NO:

PROB BRIEF : BRU-12; HOOK TIE LINKAGE WAS BINDING

PROBLEM : During assembly a short pin was mistakenly installed into a long pin  
DESCRIPTION bin and short pin was installed in the linkage.

PREVENTIVE : A review of assembly/inspection procedures by the contractor was  
ACTION performed to eliminate this problem.

CORRECTIVE : Pin was removed and replaced with a long pin. A review of assembly  
ACTION and inspection procedures by the contractor was performed to  
eliminate the problem. Based on this information this problem is  
considered closed.

ACTION : ACTIVITY/CODE ASSIGNMENT DUE DATE STATUS  
SUMMARY NAVAIR/4181F3 CLOSURE AUTHORITY COMPLETE 09SEP88

REFERENCES : IDENTIFICATION REFERENCE BRIEF  
NAVAIR HP LTR 3162 03AUG87 CLOSURE AUTHORITY

OCCURRENCES: SOURCE TYPE DOCUMENT NO. DATE DR STATUS  
VP-40 CODR R09674-01-0016A 25JUL01 CLOSED  
VP-31 PQDR II R09107-85-0001 27AUG85 CLOSED \*

\* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : VP-40 CODR R09674-01-0016A 25JUL01 CLOSED

END ITEM : PART/DOC. NO. FSC NIIN NALC  
531AS100-1 1095 00-119-4168  
NOMEN: RACK, BOMB, AIRCRAFT  
S/N: UNKNOWN  
FAILED PART: 531AS100-1 1095 00-119-4168  
NOMEN: RACK, BOMB, AIRCRAFT

DESCRIPTION:

The BDU-45 which was loaded on the bomb bay station five would not release from the aircraft. Upon return of the aircraft, the bomb rack was safed. LEMA was discovered to be fired but the hooks were still closed. During the download, the weapon was found to be over-swayed which caused the prevention of the weapon to release. Release and control checks were performed with no discrepancies found. No CFA response was requested.

30-NOV-01

BOMB RACK (BRU-10 SERIES) ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

PROBLEM NO: 880895

(Continued)

**ACTION TAKEN:**

26JUL01: During review of the reported incident, RTSC Indianapolis concurred with the submittal of the deficiency report for tracking purposes only. Repair launcher as required. VP-40's participation in AWCAP is greatly appreciated. Closing action.

<b>ACTION</b>	<b>:</b>	<b>ACTIVITY/CODE</b>	<b>ASSIGNMENT</b>	<b>DUE DATE</b>	<b>STATUS</b>
<b>SUMMARY</b>		RTSC INDIANAPOLIS/CNPCOO	CLOSE PROBLEM		COMPLETE 26JUL01

<b>REFERENCES</b>	<b>:</b>	<b>IDENTIFICATION</b>	<b>REFERENCE BRIEF</b>
		VP-40 MESSAGE 251600ZJUL01	PROBLEM RPEORTED
		RTSC INDIANAPOLIS/CNPCOO CFA REVIEW 26JUL01	PROBLEM CLOSING