

25MM GUNS AND AMMUNITION ACTIVE  
AIRBORNE WEAPONS CORRECTIVE ACTION PROGRAM

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

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PROBLEM NO: 13135

OPEN

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	DEFENSIVE ARMAMENT SUBSYSTEM	1395AS101	1005	01-204-3966	

EI CNTRL NO: 01-0047

PROB BRIEF : GUN JAMMED

PROBLEM : Gun stopped firing, an unsafe/unclear indication noted on HUD.  
DESCRIPTION

PREVENTIVE : No preventive action has been determined.  
ACTION

CORRECTIVE : An ECP was approved by NAVAIR for a tapered lug, will be used on the  
ACTION new production gun systems.

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	VMA-231	CODR/EIR	M52948-01-0013	26FEB01	OPEN
	NWC CHINA LAKE	EMR/EIR	N60530-89-0083	04JAN89	CLOSED *

\* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : VMA-231 CODR/EIR M52948-01-0013 26FEB01 OPEN

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :				
	S/N: 100114			
	LOT: N/A			
FAILED PART:	1395AS382	1005	01-222-4924	
	NOMEN: GUN 25MM A/A49E-10			

DESCRIPTION:

GAU-12/U 25MM Gun P/N 1395AS382, and Ammunition Handling System S/N 1000048, were installed and loaded in accordance with approved procedures. Pilot reported all systems and symbology normal. After trigger squeeze and release, Stores Page indicated "WPNS FAIL", "GUN NOT CLEAR" and weapon cue in heads up display. Pilot immediately secured master arm and deslected the gun. Pilot reported gun seemed to fire normally and no indications of problem until after release of trigger. Gun jammed after firing 51 rounds. Gun and handling system turned into MALS-14.

ACTION TAKEN:

NAWC PT. MUGU 280429ZFEB01: Request MALS-14 Hold exhibits and maintain in an as is condition for investigation. Request NAWC China Lake for action. Provide MALS-14 with shipping instructions. Upon completion of investigation provide results to

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PROBLEM NO: 13135

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all concerned.

NAWC CHINA LAKE 070329ZMAR01: Reported an on site Engineering Investigation will be conducted by Engineering Team on April 4, 2001. NAWC Fleet Weapon Support Team Representative at Cherry Pt. Det requested to assist during on-site investigation.

<b>ACTION</b>	<b>:</b>	<b>ACTIVITY/CODE</b>	<b>ASSIGNMENT</b>	<b>DUE DATE</b>	<b>STATUS</b>
<b>SUMMARY</b>		NAWC CHINA LAKE/478100D	INVESTIGATE	27MAY01	OPEN

<b>REFERENCES</b>	<b>:</b>	<b>IDENTIFICATION</b>	<b>REFERENCE BRIEF</b>
		VMA-231 MESSAGE 261400ZFEB01	PROBLEM REPORT
		NAWC PT MUGU/311000E MESSAGE 280429ZFEB01	INTERIM RESPONSE
		NAWC CHINA LAKE/478100D MESSAGE 070329ZMAR01	DISPOSITION INSTRUCTIONS
		NAWC CHINA LAKE/478100D MESSAGE 250129ZJUN01	ADDITIONAL DISPOSITION INSTRUCTIONS

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PROBLEM NO: 15178

OPEN

	NOMENCLATURE	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	DEFENSIVE ARMAMENT SUBSYSTEM	1395AS101	1005	01-204-3966	
	GUN 25MM A/A49E-10	1395AS382	1005	01-222-4924	

EI CNTRL NO:

PROB BRIEF : PRESSURE REGULATOR VALVE AND DUCT ASSEMBLY TORN

PROBLEM : Pressure regulator valve damaged and duct assembly found torn in  
DESCRIPTION half. Mounting bracket found bent upwards creating dents in ducting.

PREVENTIVE : No preventive action has been determined.  
ACTION

CORRECTIVE : Redesign support bracket.  
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCCURRENCES:	NAWC PT MUGU	PQDR II	N63126-95-0001	15AUG95	OPEN *
	MALS-13	CODR	M57082-95-0029	23MAY95	CLOSED *
	MALS-13	CODR/EIR	M57082-95-0023	26APR95	OPEN
	MALS-12	CODR	M09112-95-0014	14MAR95	CLOSED *
	MALS-13	CODR/EIR	M57082-95-0012	06MAR95	CLOSED *
	MALS-13	CODR/EIR	M57082-95-0011	23FEB95	OPEN
	MALS-12	CODR/EIR	M09112-95-0011	22FEB95	CLOSED *
	MALS-13	CODR/EIR	M57082-95-0008	26JAN95	CLOSED *
	VMA-513	EMR	M09231-92-0074	07DEC92	OPEN
	MALS-32	EIR	M09132-92-0162	28AUG92	OPEN
	MALS-32	EMR/EIR	M09132-92-0145	23JUL92	OPEN

\* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : MALS-13 CODR/EIR M57082-95-0023 26APR95 OPEN

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	1395AS101	1005	01-204-3966	
	NOMEN: DEFENSIVE ARMAMENT SUBSYSTEM			
	S/N: 1000316			
SUB-ASSY :	1395AS164-3	4820	01-306-7515	
	NOMEN: PRESSURE REGULATOR			
FAILED PART:	1395AS358	1005	01-225-2815	
	NOMEN: SLIP JOINT MOUNTING BRACKET			

DESCRIPTION:

During installation of slip joint bracket reinforcers P/N 1395AS1122 to slip joint bracket P/N 1395AS358, the forward duct assembly P/N 3282828-1 was observed as being twisted and warped. Discolored metal of affected area was also observed. Suspect heat damage.





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miscellaneous history card the number of rounds on the gun system at the time of repair and the length of the bend. Reinstall bracket in accordance with AW-381VB-MIB-000, WP 006 00 and return gun system to service. Request that NAWCWPNs Pt. Mugu be informed of those brackets that are determined to be irreparable. Request provide following information when contacted: Gun subsystem (P/N 1395AS101) serial number, number of bracket repairs on system, rounds count, reason bracket is not repairable.

NAWC PT. MUGU 250529ZJAN93: NAWC Pt. Mugu requests to utilize one aircraft to install, fit check and test support bracket for a period of not to exceed sixty days. Support bracket will be installed in the same space and position as the present slip joint bracket and will in no way interfere with the safe and effective operation of the gun system or aircraft.

**ACTION : ACTIVITY/CODE                      ASSIGNMENT                      DUE DATE STATUS**  
**SUMMARY                      NAWC PT MUGU/P2626                      INVESTIGATE                      30AUG93    OPEN**

**REFERENCES : IDENTIFICATION                      REFERENCE BRIEF**  
 VMA-513 MESSAGE 071500ZDEC92                      PROBLEM REPORT  
 NAWC PT MUGU/P2626 MESSAGE 140129ZDEC92                      INTERIM RESPONSE  
 NADEP CHERRY PT MESSAGE 051945ZJAN93                      INTERIM REPORT  
 NAWC PT MUGU/P2626 MESSAGE 060129ZJAN93                      STATUS UPDATE  
 NAWC PT MUGU/P2642 MESSAGE 250529ZJAN93                      PROPOSED MODIFICATION

**ACTION : MALS-32                      EIR                      M09132-92-0162                      28AUG92    OPEN**

	<b>PART/DOC. NO.</b>	<b>FSC</b>	<b>NIIN</b>	<b>NALC</b>
<b>END ITEM :</b>	1395AS101	1005	01-204-3966	
	<b>NOMEN: DEFENSIVE ARMAMENT SUBSYSTEM</b>			
	<b>S/N: 1000080, 1000120, 1000065, 1000142, 1000191, 1000006, 1000035, 10000067, 1000117, 1000255</b>			
<b>SUB-ASSY :</b>	1395AS164-3	4820	01-306-7515	
	<b>NOMEN: PRESSURE REGULATOR</b>			
<b>FAILED PART:</b>	1395AS358	1005	01-225-2815	
	<b>NOMEN: SLIP JOINT MOUNTING BRACKET</b>			

**DESCRIPTION:**

After incorporation of AAC 907 kit, valve and duct bracket were found to be bent forward. Inspection of 12 additional systems found nine more bent brackets.

**ACTION TAKEN:**

NAWC PT. MUGU 030329ZSEP92: Request MALS-32 provide to NADEP Cherry Pt. slip joint brackets from the reported problem. NADEP will furnish information as to the number exhibits required for analysis. Inspection and corrective action will be provided following receipt and analysis of these brackets.

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NADEP CHERRY PT. 211950ZSEP92: MALS-32 requested to turn in exhibits to supply for shipment to NADEP Cherry Pt. If exhibits are available notify NADEP Cherry Pt. within five days. Exhibits should be received within 30 days from date of this message. Investigation results will be provided to all concerned upon completion.

NADEP CHERRY PT. 051945ZJAN93: Investigation revealed that the tube material was AISI type 321 stainless steel, as specified by the drawing. As no material defects were present, design deficiency is the most likely reason for the brackets being bent. It is suspected that the bracket does not possess adequate strength to support the loads being experienced.

NAWC PT. MUGU 060129ZJAN93: In order to maintain system availability, slip joint brackets may be repaired until cracks are noticed at the bend, or less than 300 rounds have been fired since last repair. Organizational level inspections in accordance with NAWCWPNS Pt. Mugu 150229ZDEC92 are extremely important and shall be conducted at the end of each sortie. Repair of discrepant slip joint brackets will be performed by IMA personnel as follows: Remove upper portion of slip joint IAW AW-381VB-MIB-000, WP 006 00. Gently bend bracket back to its original position. Visually inspect bracket to ensure that the material is not cracked. Make an entry into the miscellaneous history and repair/rework cards of the AESR that this maintenance was performed. Include on the miscellaneous history cards the number of rounds on the gun system at time of repair and the length of the bend. Reinstall bracket in accordance with AW-381VB-MIB-000, WP 006 00 and return gun system to service. Request that NAWCWPNS Pt. Mugu be informed of those brackets that are determined to be irreparable. Request provide following information when contacted: Gun subsystem (P/N 1395AS101) serial number, number of bracket repairs on system, rounds count, reason bracket is not repairable.

NAWC PT. MUGU 250529ZJAN93: NAWC Pt. Mugu requests to utilize one aircraft to install, fit check and test support bracket for a period of not to exceed sixty days. Support bracket will be installed in the same space and position as the present slip joint bracket and will in no way interfere with the safe and effective operation of the gun system or aircraft.

<b>ACTION</b>	<b>:</b>	<b>ACTIVITY/CODE</b>	<b>ASSIGNMENT</b>	<b>DUE DATE STATUS</b>
<b>SUMMARY</b>		NAWC PT MUGU/2026	INVESTIGATE	30AUG93 OPEN

<b>REFERENCES</b>	<b>:</b>	<b>IDENTIFICATION</b>	<b>REFERENCE BRIEF</b>
		MALS-32 MESSAGE 281850ZAUG92	PROBLEM REPORT
		NAWC PT MUGU/2026 MESSAGE 030329ZSEP92	INTERIM RESPONSE
		NADEP CHERRY PT MESSAGE 211950ZSEP92	EXHIBIT REQUEST
		NADEP CHERRY PT MESSAGE 051945ZJAN93	INTERIM REPORT

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PROBLEM NO: 15178

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REFERENCES : IDENTIFICATION REFERENCE BRIEF  
NAWC PT MUGU/P2626 MESSAGE 060129ZJAN93 STATUS UPDATE  
NAWC PT MUGU/P2642 MESSAGE 250529ZJAN93 PROPOSED MODIFICATION

ACTION : MALS-32 EMR/EIR M09132-92-0145 23JUL92 OPEN

	PART/DOC. NO.	FSC	NIIN	NALC
END ITEM :	1395AS101	1005	01-204-3966	
	NOMEN: DEFENSIVE ARMAMENT SUBSYSTEM			
	S/N: UNKNOWN			
SUB-ASSY :	1395AS164-3	4820	01-306-7515	
	NOMEN: PRESSURE REGULATOR			
	S/N: 8501-152			
FAILED PART:	1395AS358	1005	01-225-2815	
	NOMEN: SLIP JOINT MOUNTING BRACKET			

DESCRIPTION:

Valve and duct assembly found torn in half just forward of pressure regulator. Mounting bracket slip joint bent upward creating dents in duct assembly. Pressure regulator damaged when it came in contact with gun barrels when duct broke.

ACTION TAKEN:

NAWC PT. MUGU 300629ZJUL92: NADEP Cherry Pt. requested to investigate and determine cause of crack initiation and propagation, also analyze ducting upstream of shutoff valve to ensure damage not present. MALS-32 to provide hardware and valve to NADEP Cherry Pt. Request photos and AESR cards be forwarded to NAWCWPNS Pt. Mugu. MALS-32 171838ZAUG92: Request provide status of investigation. NAWC PT. MUGU 260229ZAUG92: Photos received and investigation is underway. Results will be provided to ALCON upon completion. NADEP CHERRY PT. 051945ZJAN93: Investigation revealed bracket tube was AISI type 321 stainless steel, as specified by the drawing. As no material defects were present, design deficiency is the most likely reason for the brackets being bent. It is suspected that the bracket does not possess adequate strength to support the loads being experienced. NAWC PT. MUGU 060129ZJAN93: In order to maintain system availability, slip joint brackets may be repaired until cracks are noticed at the bend or less than 300 rounds have been fired since the last repair. Organizational level inspections in accordance with NAWC Pt. Mugu 150229ZDEC92 are extremely important and shall be conducted at the end of each sortie. Repair of discrepant slip joint brackets shall be performed by IMA personnel as follows: Remove upper portion of slip joint in accordance with AW-381VB-MIB-000, WP 006 00. Gently bend bracket back to its original position. Visually inspect bracket to ensure that the material is not cracked. Make an entry into the miscellaneous history and repair/rework cards of the

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AESR that this maintenance was performed. Include on the miscellaneous history cards the number of rounds on the gun system at time of repair and length of the bend. Reinstall bracket in accordance with AW381VB-MIB-000, WP 00600 and return gun system to service. Request that NAWCWPNs Pt. Mugu be informed of those brackets that are determined to be irreparable. Request provide following information when contacted: Gun subsystem (P/N 1395AS101) serial number, number of bracket repairs on system, rounds count, reason bracket is not repairable.

NAWC PT. MUGU 250529ZJAN93: NAWC Pt. Mugu requests to utilize one aircraft to install, fit check and test support bracket for a period of not to exceed sixty days. Support bracket will be installed in the same space and position as the present slip joint bracket and will in no way interfere with the safe and effective operation of the gun system or aircraft.

<b>ACTION</b>	<b>:</b>	<b>ACTIVITY/CODE</b>	<b>ASSIGNMENT</b>	<b>DUE DATE</b>	<b>STATUS</b>
<b>SUMMARY</b>		NAWC PT MUGU/2026	INVESTIGATE	30AUG93	OPEN

<b>REFERENCES</b>	<b>:</b>	<b>IDENTIFICATION</b>	<b>REFERENCE BRIEF</b>
		MALS-32 MESSAGE 231850ZJUL92	PROBLEM REPORT
		NAWC PT MUGU/2026 MESSAGE 300629ZJUL92	INTERIM RESPONSE
		MALS-32 MESSAGE 171851ZAUG92	STATUS REQUEST
		NAWC PT MUGU/2026 MESSAGE 260229ZAUG92	STATUS UPDATE
		NADEP CHERRY PT MESSAGE 051945ZJAN93	INTERIM REPORT
		NAWC PT MUGU/P2626 MESSAGE 060129ZJAN93	PROPOSED MODIFICATION
		NAWC PT MUGU/P2642 MESSAGE 250529ZJAN93	PROPOSED MODIFICATION

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PROBLEM NO: 15990 CLOSED

END ITEM : NOMENCLATURE PART/DOC. NO. FSC NIIN NALC  
DEFENSIVE ARMAMENT 1395AS101 1005 01-204-3966  
SUBSYSTEM

EI CNTRL NO:

PROB BRIEF : AMMO HANDLING SUBSYSTEM JAM

PROBLEM : Ammunition handling system jammed.  
DESCRIPTION

PREVENTIVE : No preventive action has been determined.  
ACTION

CORRECTIVE : No corrective action has been determined.  
ACTION

OCCURRENCES: SOURCE TYPE DOCUMENT NO. DATE DR STATUS  
MAWTS-1 CODR M55167-01-0009 03APR01 CLOSED  
VMA-513 CODR/EIR M09231-95-0022 04AUG95 CLOSED \*

\* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : MAWTS-1 CODR M55167-01-0009 03APR01 CLOSED

END ITEM : PART/DOC. NO. FSC NIIN NALC  
S/N: 1000134  
LOT: N/A  
FAILED PART: 1395AS101 1005 01-204-3966  
NOMEN: DEFENSIVE ARMAMENT SUBSYSTEM

DESCRIPTION:

It was reported after firing approximately 300 rondos successfully , ground crew reported during down loading evolution gun system jammed after removing 200 casings. Investigation revealed single spent casing had unseated from feed system elements and fallen between sprockets of interface unit.

ACTION TAKEN:

NAWC PT. MUGU 110029ZAPR01: Request MALS-13 repair ammunition pack and return to Ready For Issue service. Problem will be monitored for furhter occurrences. This is closing action.

ACTION : ACTIVITY/CODE ASSIGNMENT DUE DATE STATUS  
SUMMARY NAWC PT MUGU/311000E REVIEW DEFICIENCY COMPLETE 11APR01

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PROBLEM NO: 15990

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REFERENCES :	IDENTIFICATION	REFERENCE BRIEF
	MAWTS-1 MESSAGE 031010ZAPR01	PROBLEM REPORT
	NAWC PT MUGU/311000E MESSAGE	REPLY/CLOSING
	110029ZAPR01	

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PROBLEM NO: 16931 CLOSED

EI CNTRL NO:

PROB BRIEF : HIGH SPEED CASING JAM IN INTERFACE AND LOADING ACCESS UNITS

PROBLEM : Weapon experienced a high speed casing jam in interface and loading  
DESCRIPTION : access units.

PREVENTIVE : No preventive action has been determined.  
ACTION

CORRECTIVE : No corrective action has been determined.  
ACTION

	SOURCE	TYPE	DOCUMENT NO.	DATE	DR STATUS
OCURRENCES:	MAWTS-1	CODR/EIR	M55167-01-0016	17APR01	CLOSED *
	MAWTS-1	CODR/EIR	M55167-01-0007	04APR01	CLOSED

\* ACTION REPORTED IN PREVIOUS PUBLICATION

ACTION : MAWTS-1 CODR/EIR M55167-01-0007 04APR01 CLOSED

END ITEM :	PART/DOC. NO.	FSC	NIIN	NALC
	S/N: 1000194			
FAILED PART:	1395AS125	1305	01-199-6737	

DESCRIPTION:  
GAU-12/U 25mm gun s/n 1000194, 25mm Ammunition Pac s/n 1000199,  
Misfeed round in interface unit.

ACTION TAKEN:  
NAWC PT. MUGU 110129ZAPR01: Concurs with Fleet Weapon Support Team representative of suspect system was loaded in an untimed position, and this does not require an investigation. A proposed RAMEC to strengthen the timing plate of the access unit drive gear has been developed. Proposed RAMEC ACC-917 is awaiting approval and release. Repair ammunition pac and GAU-12/U 25MM gun to Ready For Issue condition and return to service. Problem will be monitored for further occurrences. This is closing action.

ACTION : ACTIVITY/CODE ASSIGNMENT DUE DATE STATUS  
SUMMARY : NAWC PT MUGU/311000E REVIEW DEFICIENCY COMPLETE 11APR01

REFERENCES : IDENTIFICATION REFERENCE BRIEF  
MAWTS-1 MESSAGE 041200ZAPR01 PROBLEM REPORT  
NAWC PT MUGU/311000E MESSAGE 110129ZAPR01 REPLY/CLOSING