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TRAILER LIGHTWEIGHT GS CARGO INSPECTION STANDARDS PART 1 COMPLETE EQUIPMENT

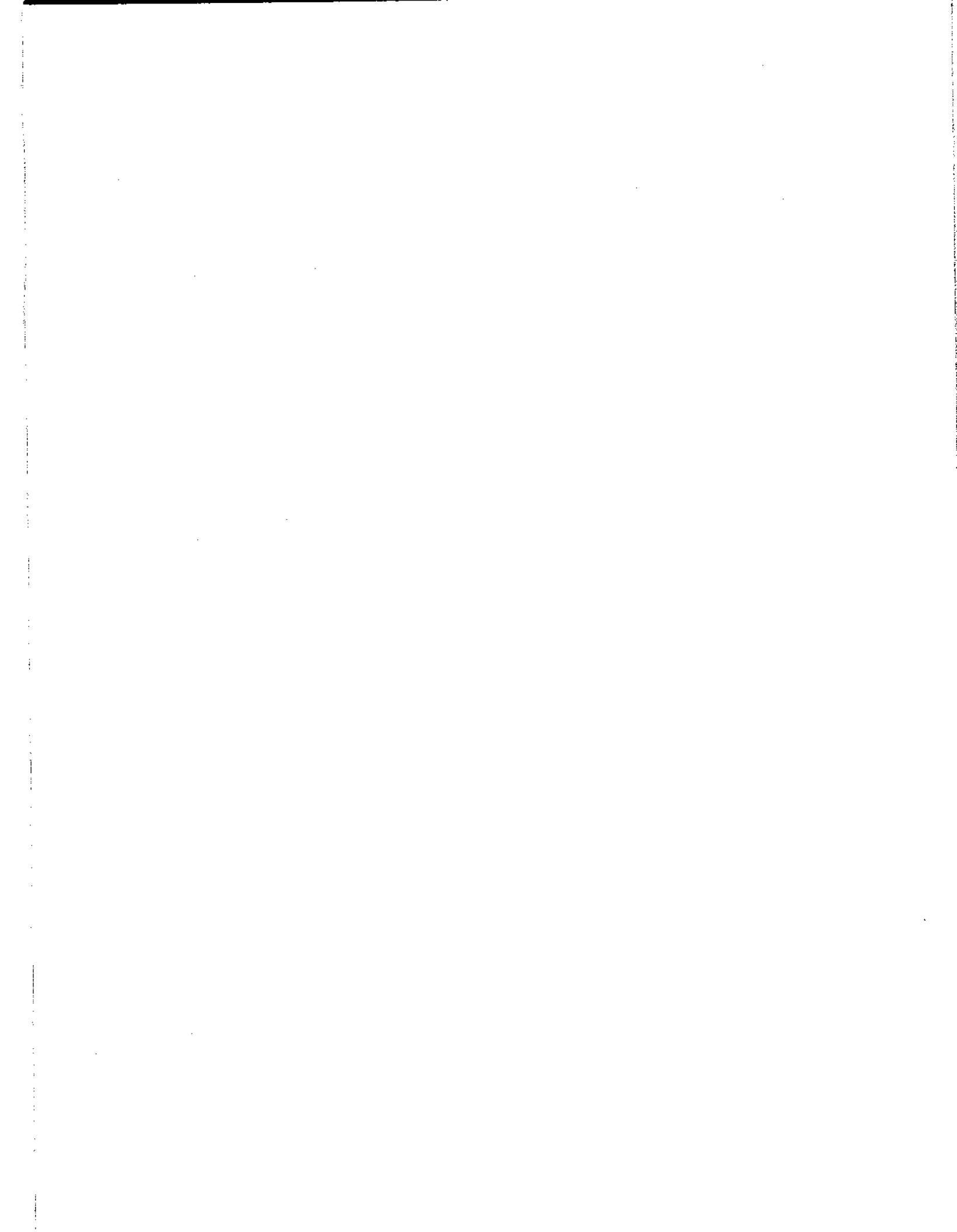
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BY COMMAND OF THE DEFENCE COUNCIL


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Ministry of Defence
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DEFENCE LOGISTICS ORGANISATION

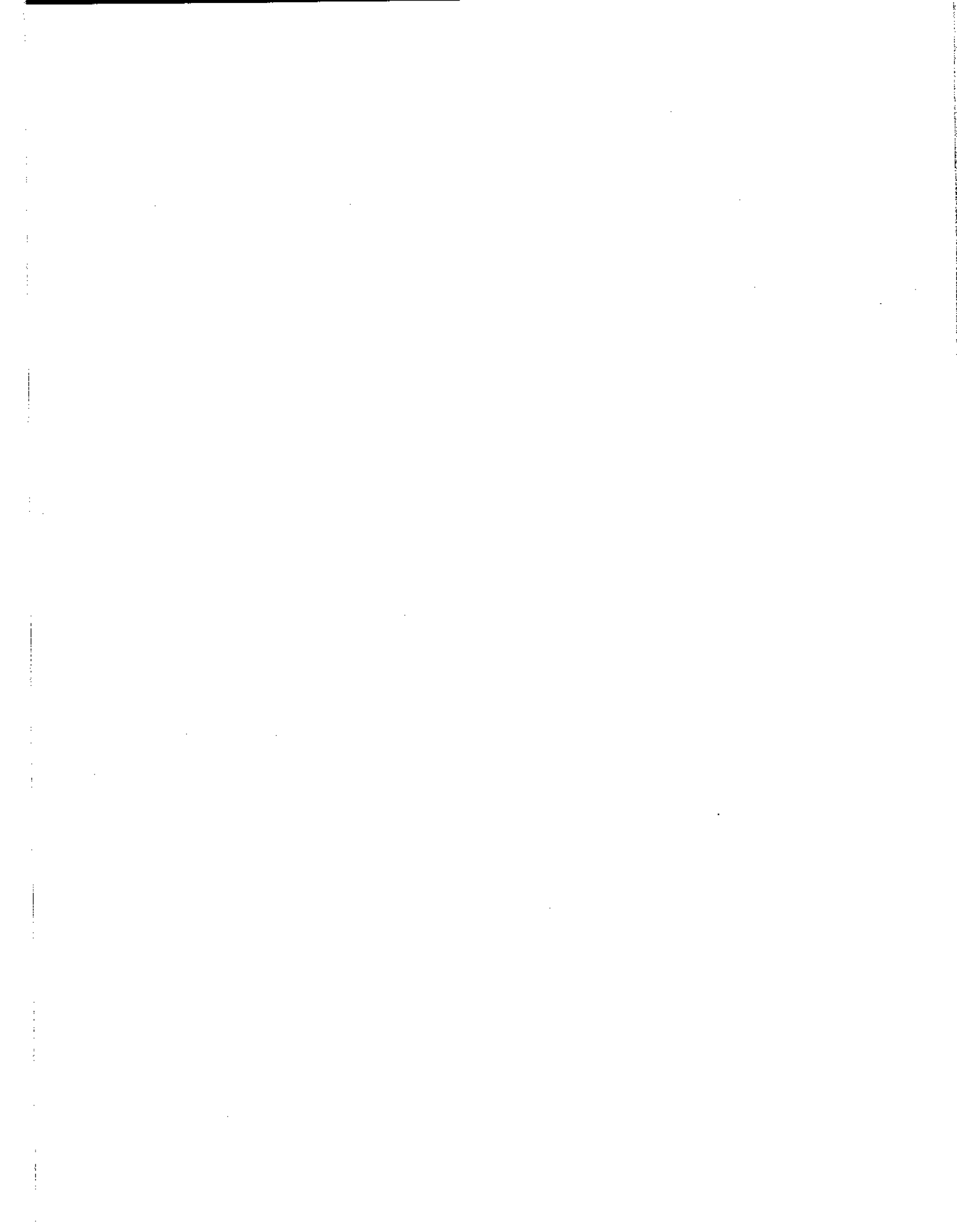
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AMENDMENT RECORD

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PREFACE

Sponsor: DEC ELS

INTRODUCTION

1 Service users should forward any comments concerning this Publication through the channels prescribed in Army Equipment Support Publication (AESP) 0100-P-011-013. An AESP Form 10 is provided at the end of this publication; it should be photocopied and used for forwarding comments on this AESP.

2 AESPs are issued under Defence Council authority and, where AESPs specify action to be taken, the AESP will of itself be sufficient authority for such action and also for the demanding of the necessary stores, subject to the provisions of Para 3 below.

3 The subject matter of this publication may be affected by Defence Council Instructions (DCIs), Standard Operating Procedures (SOPs) or by local regulations. When any such Instruction, Order or Regulation contradicts any portion of this publication they are to be taken as the overriding authority.

4 For periods of servicing and lubricants to be used reference must be made to the Maintenance Schedule, Cat 601.

RELATED AND ASSOCIATED PUBLICATIONS

Related publications

5 The Octad for the subject equipment consists of the categories as detailed overleaf. All references are prefixed with the first eight digits of this publication. The availability of the publications can be checked by reference to the relevant Group Index (refer to AESP 0100-A-001-013).

Category/Sub-category			Information Level			
			1 User/ Operator	2 Unit Maintenance	3 Field Maintenance	4 Base Maintenance
1	0	Purpose and Planning Information	101	101	101	*
	1	Equipment Support Policy Directive	111	111	111	*
	2	Equipment Support Policy Directive	*	*	*	*
2	0	Operating Information	201	*	*	*
	1	Aide Memoire	*	*	*	*
	2	Training Aids	*	*	*	*
3		Technical Description	201	302	302	*
4	1	Installation Instructions	411	411	411	*
	2	Preparation for Special Environments	421	421	421	*
5	1	Failure Diagnosis	201	512	512	*
	2	Maintenance Instructions	201	522	522	*
	3	Inspection Standards	*	532	532	*
	4	Calibration Procedures	*	*	*	*
6		Maintenance Schedules	601	601	*	*
7	1	Illustrated Parts Catalogues	711	711	711	*
	2	Commercial Parts Lists	*	*	*	*
	3	Complete Equipment Schedule, Production	*	*	*	*
	4	Complete Equipment Schedule, Service Edition (Simple Equipment)	741	741	741	*
	5	Complete Equipment Schedule, Service Edition (Complex Equipment)	*	*	*	*
8	1	Modification Instructions	*	*	*	*
	2	General Instructions, Special Technical Instructions and Servicing Instructions	*	821	821	*
	3	Service Engineered Modification Instructions (RAF only)	*	*	*	*

* Category/sub-category not published

Associated publications

6 A full list of associated publications is as follows:

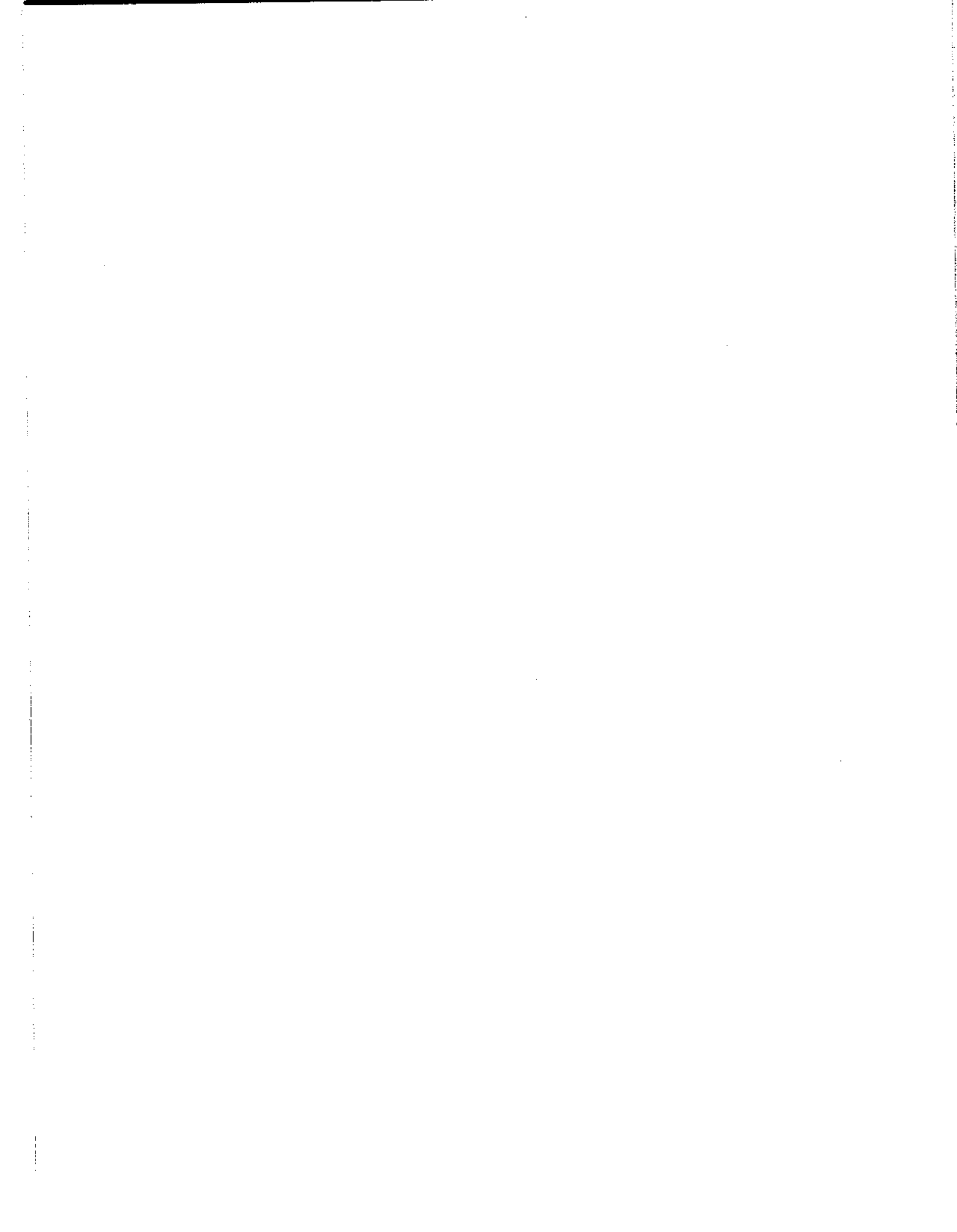
<u>Reference</u>	<u>Title</u>
AESP 2300-A-050-013	B Vehicle Test, Inspection and Certification
AESP 2300-A-110	Vehicle and Trailer Electrical Circuits Installation Checks
AESP 0200-A-221-013	Painting of Service Equipment
AESP 2320-A-300-532	B Vehicle Cab Corrosion Inspection Standards
AESP 2300-A-310-201	B Vehicle Corrosion Prevention
AESP 2300-A-500	Material Quality Assessment - Principles and Practices in REME
AESP 2300-A-600	Waterproofing Regulations Vehicles and Equipment

WARNINGS

7 The following WARNINGS are applicable to this equipment.

(1) PERSONAL SAFETY. WHEN PARKING THE TRAILER ENSURE THAT THE PARKING AREA IS AS FLAT AS POSSIBLE, THAT THE HANDBRAKE IS APPLIED FIRMLY, THAT THE REAR SUPPORT LEGS ARE LOWERED AND THE CLAMPING BOLTS ARE TIGHT, AND THAT THE JOCKEY WHEEL IS CLAMPED FIRMLY BEFORE BEING WOUND DOWN.

(2) PERSONAL SAFETY. OBSERVE ALL SAFETY INSTRUCTIONS CONCERNING JACKING AND SCOTCHING WHEN CHANGING WHEELS OR EXAMINING BRAKE PADS.



INSPECTION STANDARDS PART 1

INTRODUCTION

General

1 This chapter contains a guide to the inspection of the automotive aspects of the Trailer Lightweight GS Cargo. Limits and tolerances are detailed as necessary.

Painting

2 When examining vehicle paintwork, both internal and external, the following should be noted:

2.1 Painting and markings will be in accordance with AESP 0200-A-221-013.

2.2 Ensure that paint has not been applied so as to cover instruction plates, light bulbs, grease nipples, exposed screw threads, fabrics and rubber seals.

Physical condition checks⁴

3 Throughout the procedures detailed in this chapter, the inspector is directed to carry out physical condition checks of components and connecting cables. The acceptable states of the components and cables are detailed as follows:

3.1 All securing devices, such as nuts, bolts, locking pins, catches, locking wire, locking tabs, screws and washers must be correctly fitted and tightened. The surface of any rubber components must be clean and smooth with no cracks apparent.

3.2 Any light lens must be unbroken and free from obscurants such as paint or grease.

3.3 Controls, such as handles and knobs, should be complete, securely fitted and clean. The control should operate smoothly and latch into position correctly where appropriate.

3.4 Linkages should be clean, free from corrosion, undamaged and correctly lubricated. The linkage should operate smoothly.

3.5 Loose fitted covers should be undamaged and correctly fitted. Securing chains and cords should be undamaged with both ends correctly attached.

3.6 All welds are to be intact and free from cracks.

3.7 All seals are to be correctly fitted and free from damage.

3.8 Check that all connections are correctly made and that cables are undamaged and correctly routed and secured.

3.9 Brake fluid level is correct.

Cleanliness

4 Throughout the inspection of the equipment, check that all components are clean and free from leaks. Ensure that there are no loose bolts, nuts, cotton waste or other foreign matter on the floor or in the places where the efficiency of moving parts may be impaired.

Test equipment

5 No special tools or test equipment are required to carry out the inspections detailed in this chapter.

SCHEDULE 1 EXTERNAL VISUAL CHECK**NOTE**

Entries denoting inspections which are performed on an annual basis only are identified in Column 2 by an asterisk (*).

Serial (1)	Periodicity (2)	Item (3)	AQL (4)
1		CHASSIS AND BODY Tow eye overrun damper. 1.1 Condition check. 1.2 No lubricant leak and resistance when pushed. 1.3 Mounting bolts. 1.4 Damper brake screw clearance.	When the eye thickness reaches 30 mm at any point replace the damper module complete. NOTE The new thickness is 40 mm. Use towing vehicle. 90 Nm 0.5 mm
2		Chassis frame. 2.1 Condition check. No cracks or distortions.	
3		Rear support leg. 3.1 Condition check. 3.2 Free fit in support tube. 3.3 Locking pins undistorted and secure.	
4		CES stowage bins. 4.1 Condition check. No cracks or distortions. 4.2 Lids free to hinge and lubricated. 4.3 Pin anchor secure and lanyard intact.	
5		Body tub. 5.1 Condition check. No cracks or distortions. 5.2 Security of mounting bolts. 5.3 Tailgate. Undistorted, free to hinge and secure. 5.4 Lashing eyes secure and undamaged. 5.5 Security of tailgate pegs.	
6		Front jockey wheel. 6.1 Condition and operation check. 6.2 Free fit in support tube. 6.3 Pivot bracket secure and lubricated.	(continued)

SCHEDULE 1 EXTERNAL VISUAL CHECK (continued)

Serial (1)	Periodicity (2)	Item (3)	AQL (4)
7		6.4 Locking pins undistorted and secure. 6.5 Wheel secure, no cracks or distortions. SUSPENSION Leaf springs. 7.1 Condition check. 7.2 No broken leaves. 7.3 Shackle bushes intact and secure. 7.4 U bolts and stud undistorted and secure.	187 Nm Stage 1 25 Nm Stage 2 40 Nm Stage 3 99 Nm
8		Shock absorbers. 8.1 No visible leak or scoring on piston rod. 8.2 Mounting bushes secure, no damage or signs of perishing. 8.3 Top and bottom bosses free, no cracks at welds.	Check at maximum extension/retraction. Top bolt 76 Nm Bottom nut 33 Nm
9		Rubber springs. 9.1 Condition check. No damage or signs of perishing. 9.2 Mounting bolt secure.	
10		Anti-roll bar. 10.1 Anti-roll bar and bushes intact, mounting secure. 10.2 Top bolt joint intact and secure. 10.3 Lower drop link intact and secure.	40 Nm 91 Nm
11		BRAKING SYSTEM Master cylinder. 11.1 Condition check. 11.2 Security of mounting bolts. 11.3 No leaks. Reservoir level correct. 11.4 Clevis pin free to rotate.	20 Nm 10 to 12 mm below top of reservoir. Internal diaphragm seated correctly, visible through reservoir with outer cap removed.
12		Accumulator. 12.1 Condition check.	

(continued)

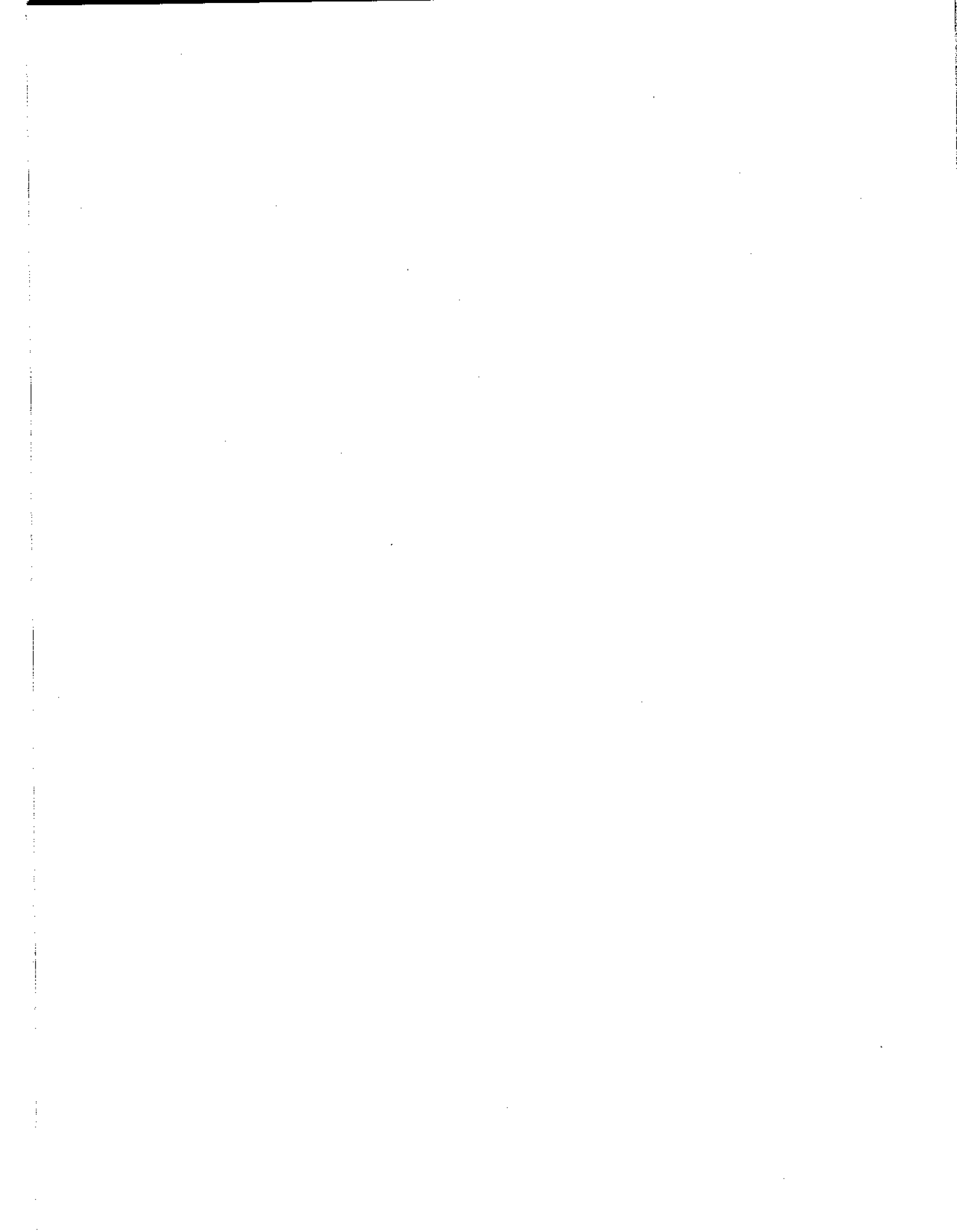
SCHEDULE 1 EXTERNAL VISUAL CHECK (continued)

Serial (1)	Periodicity (2)	Item (3)	AQL (4)
13		12.2 Security of mounting bracket. 12.3 Manifold. No leaks. Security of mounting bolts. Handbrake. 13.1 Condition check including ratchet pawl teeth. 13.2 Ratchet pawl to engage and hold. 13.3 Handbrake cables, secure no signs of fraying or kinking.	20 Nm
14		13.4 Brakelink pivot pin secure and lubricated.	140 Nm
15		13.5 Brakelink rod secure and free to operate. Brake pads.	
16		14.1 Pad lining thickness.	11.7 - 3 mm
17		Brake disc.	
18		15.1 Brake disc thickness.	24.5 - 22 mm
19		AXLE Roadwheels.	
20		16.1 Wheels and tyres serviceable.	'WOLF' Landrover rims only
21		16.2 Tyre pressure correct.	
22		16.3 Check wheel nuts for tightness.	102 - 115 Nm
23		16.4 Roadwheel studs undamaged.	
24		16.5 Jack up roadwheels and check for wheel bearing end float. Wheel should rotate freely with a slight drag.	No end float.
25		16.6 Hub seals serviceable, no signs of leaks.	
26		Caliper and pads.	
27		17.1 Security of caliper to yoke.	95 Nm
28		17.2 Security of stone guard.	12 Nm
29		17.3 Handbrake cable secure at stone guard and operating correctly.	
30		Spring retainer plates.	
31		18.1 Check security of plates.	
32		ELECTRICAL Harness.	
33		19.1 Secure and free of chaffing.	
34		19.2 Routed correctly.	

(continued)

SCHEDULE 1 EXTERNAL VISUAL CHECK (continued)

Serial (1)	Periodicity (2)	Item (3)	AQL (4)
20		19.3 All connections intact and free of corrosion. Junction box. 20.1 Mounting bolts secure. 20.2 Waterproofing intact.	Replace harness if waterproof sealant is not intact.
21		Lights. 21.1 Security of all light fittings. 21.2 Lenses free of paint and crack free. 21.3 All lights operate correctly.	
22		ID PLATE Condition and security check.	
23		Confirm data corresponds with vehicle log book.	
24		REAR HITCH Condition and operation check.	
25		Mounting bolts secure.	
26		Locking pin free to move.	
27		Hitch free to rotate and lubricated.	
28		Lanyards intact.	
29		ROAD TEST Parking brake to hold trailer on gradient.	Held in both directions, gradient up to 33%.
30		Auto-reverse valve to operate correctly.	
31		Breakaway cable and D shackle serviceable and fully secure ensuring that connecting ring at base of handbrake is not distorted or deformed.	



COMMENT(S) ON AESP*

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If you require more space, please use the reverse of this form or a separate piece of paper.		
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