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TRAILER LIGHTWEIGHT GS CARGO

FAILURE DIAGNOSIS - LEVEL 2

This publication contains information covering the requirements of levels 2 and 3.

BY COMMAND OF THE DEFENCE COUNCIL

Kui Funi

Ministry of Defence Issued by DEFENCE LOGISTICS ORGANISATION

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FAILURE DIAGNOSIS - LEVEL 2

Chapter

- General information
- 2 Braking system3 Electrical system

PREFACE

Sponsor: DEC ELS

INTRODUCTION

- 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.
- 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

R lated publications

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).

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^{*} Category/sub-category not published

Ass ciat d publications

6 A full list of associated publications is as follows:

Reference

Title

AESP 2330-E-202

Trailer Lightweight GS Cargo

LIST OF ABBREVIATIONS

7 The following abbreviations are used in this publication:

AESP Army Equipment Support Publication

Ah Ampere Hour

CES Complete Equipment Schedule

dB Deciber dc Direct Current

DCIs Defence Council Instructions

EMER Electrical Mechanical Engineering Regulation

GIE Government Issued Equipment

LCT Landing Craft Tank
LST Landing Ship Tank

NATO North Atlantic Treaty Organisation

NSN Nato Stock Number

SOPs Standard Operating Procedures

UK United Kingdom

WARNINGS

- 8 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.

CAUTION

9 The following CAUTION is applicable to this equipment.

EQUIPMENT DAMAGE. If the towing vehicle has a 12V electrical system, the 24V lamps on the trailer must be changed to 12V lamps of an equivalent type and wattage. Additionally, an indelible and legible label must be fitted to the trailer, adjacent to the lighting cable, stating '12 VOLT SYSTEM'.

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CHAPTER 1

GENERAL INFORMATION

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1	Introduction	
3	Level 2 repairs	
4	Special tools and test equipment	
5	Failure diagnosis chart symbols	
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INTRODUCTION

- 1 This publication details the procedures for failura diagnosis necessary to carry out repairs on the Trailer Lightweight GS Cargo.
- The abbreviation Left-Hand (LH) and Right-Hand (RH) used in this publication refer to the left hand and right hand side of the trailer when standing at the rear facing forward.

Level 2 repairs

- 3 Level 2 repairs are limited to:
 - 3.1 Replacement of defective components or minor assemblies, within the limits of the spares available.
 - 3.2 Adjustment or repair of any component or assembly within the limitations of the tools and equipment available.

Special tools and test equipment

Where applicable, any Items of special tools and test equipment are detailed as required.

Failur diagn sis chart symbols

5 The symbols used throughout the failure diagnosis charts in this publication are the ISO flow chart symbols as shown in Fig 1.

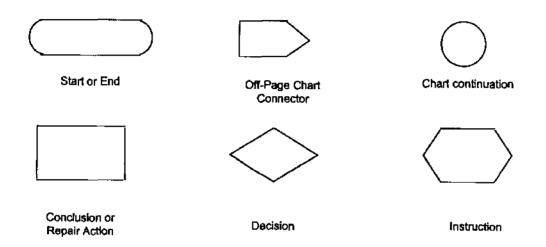


Fig 1 ISO flowchart symbols

CHAPTER 2

BRAKING SYSTEM

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- 2 Special tools and test equipment
- 3 Failure diagnosis procedure
- 5 Failure diagnosis chart symbols

Chart		Page
1 2	Brake system failure diagnosis	2 3
Fig		
1	Brake system hydraulic circuit diagram	4

INTRODUCTION

1 This chapter details the failure diagnosis procedures applicable to the Trailer Lightweight GS Cargo.

SPECIAL TOOLS AND TEST EQUIPMENT

There are no special tools or test equipment required to carry out the failure diagnosis procedures detailed in this chapter.

FAILURE DIAGNOSIS PROCEDURE

- 3 The failure diagnosis charts detailed in this chapter make the following assumptions.
 - 3.1 That all relevant Level 1 maintenance, failure diagnosis and rectification has been successfully carried out.
 - 3.2 That the running gear and braking system are free from obvious obstructions.
- 4 The brake system hydraulic circuit diagram (Fig 1) should be used in conjunction with the failure diagnosis charts.

Failure diagnosis chart symbols

5 The symbols used throughout the failure diagnosis charts in this chapter are detailed in Chap 1.

CHART 1 BRAKE SYSTEM FAILURE DIAGNOSIS

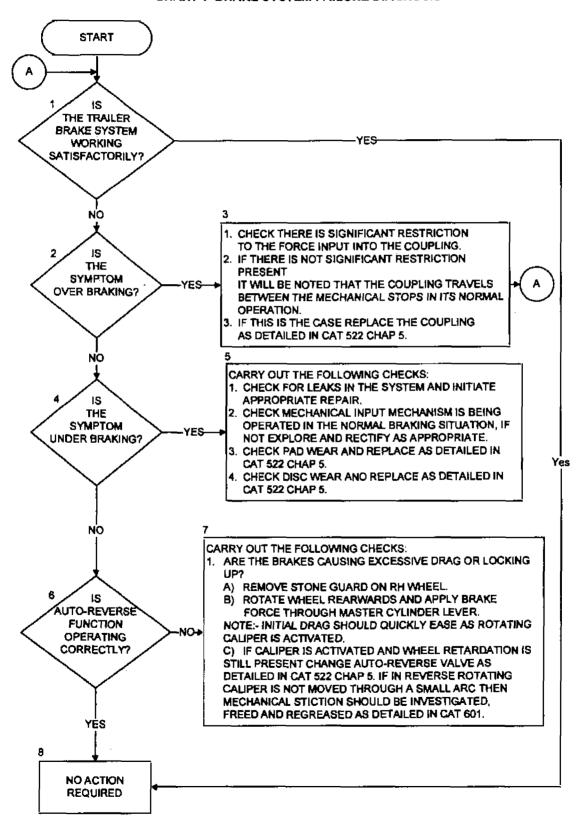
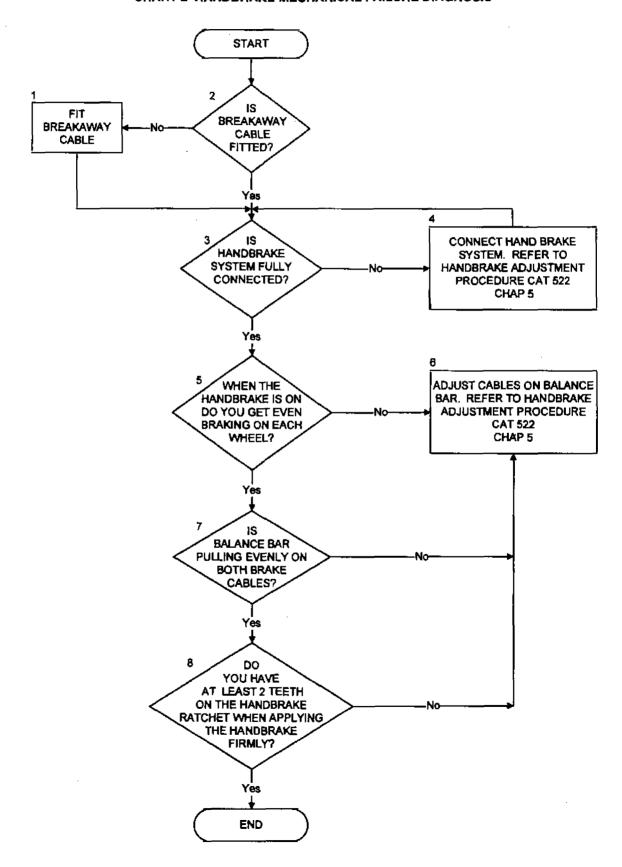
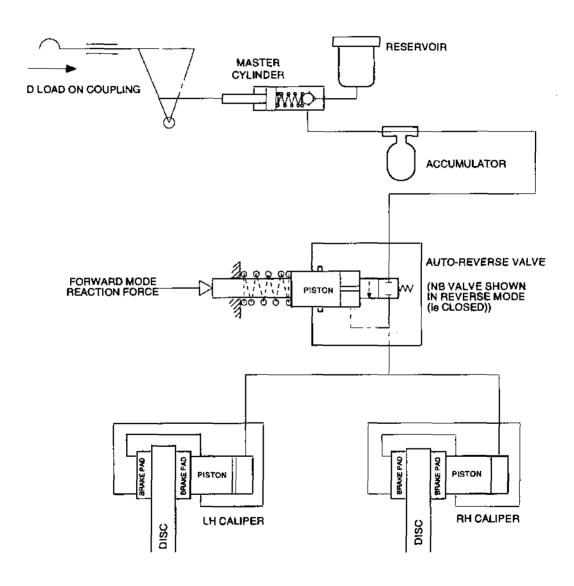


CHART 2 HANDBRAKE MECHANICAL FAILURE DIAGNOSIS





TRL/064

Fig 1 Brak system hydraulic circuit diagram

CHAPTER 3

ELECTRICAL SYSTEM

CONTENTS

Para

1 Introduction

INTRODUCTION

1 To preserve the waterproof integrity of the main wiring hamess, no repairs to the harness are to be undertaken other than replacement of the harness as a complete assembly, as detailed in Cat 522 Chap 7.

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