

**TRUCK, LIGHTWEIGHT AND TRUCK, LIGHT – ALL TYPES
– LAND ROVER 110 4X4 AND 6X6**

TYRE INFLATION HOSE END FITTING RETROFIT

MISCELLANEOUS INSTRUCTION

This instruction is authorised for use by command of the Chief of Army. It provides direction, mandatory controls and procedures for the operation, maintenance and support of equipment. Personnel are to carry out any action required by this instruction in accordance with EMEI General A 001.

GENERAL

Introduction

1. The tyre inflation hose supplied for use with the engine-driven air compressor had a threaded end fitting. When the engine driven air compressor became unsupportable nominated variants were fitted with an electric ARB air compressor. The hose end fitting for this is a half-inch Nitto Quick disconnect coupler.
2. This instruction details the management of the tyre inflation hose for use with the electric ARB air compressor. All manufacturer stocks of NIIN 66-128-6401 have been converted to a quick disconnect coupler end fitting for use. This instruction will detail the process to convert existing tyre inflation hoses to a quick disconnect coupler.

Associated Publications

3. Reference may be necessary to the latest issue of the following documents:
 - a. AS1335-1995 – Hose and hose assemblies for welding, cutting and allied purposes; and
 - b. Technical Regulation of ADF Materiel Manual – Land – [TRAMM-L](#).

Authority

4. CGSVSPO ECO 25/10 is the authority to conduct this retrofit in accordance with Land Rover Australia Engineering Change Notice 3507, Issue 1.

Action Required

5. All stores holding stocks of NIIN 66-128-6401 are to raise a Maintenance Request (MR) to have the hoses inspected and retrofitted in accordance with this instruction. All vehicle CES that contain the tyre inflation hose are to have a MR raised to have the hose inspected and retrofitted in accordance with this instruction.
6. **Stores Required.** The following stores are to be ordered to complete the end fitting change over:

Table 1 Stores Required

Item	NSN	MFR Part No.	Description	Unit of Issue	Qty Required
1	66-158-9044	MYH 3983	Kit – Nitto Male 1/4 BSP and ferrule comprising Items 2 to 4	kt	1
2		MYH 3981	Connector Male Nitto 5 mm hose tail	ea	1
3		MYH 3982	NSD – Brass Ferrule	ea	1
4			Instruction sheet	ea	1

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Detail

7. Inspection of Hose. Before changing the hose end fitting, the overall condition of the tyre inflation hose needs to be assessed. Hoses that exhibit the following are not considered suitable and need to be replaced:

- a. perishing or cracking of the hose outer layer;
- b. cuts or are holed;
- c. deformation, swelling or softening;
- d. the effects of POLs or chemicals;
- e. a damaged clamp on tyre valve end fitting;
- f. not marked with AS1335; or
- g. a manufacture date in accordance with AS1335 in excess of 10 years.

8. Change of End Fitting. The end fitting is to be fitted by using a crimped ferrule. The ferrule is to be crimped by a commercial repair facility that is capable of crimping hoses, such as ENZED, PIRTEK or RYCO hose specialist. The commercial repair facility is to be supplied the tyre inflation hose and the quick disconnect retrofit kit. The retrofit instructions to be completed by the commercial repair facility are as follows:

- a. Cut the threaded end fitting off the hose with a sharp blade, ensuring the cut is clean and straight.

NOTE

If the end of the hose shows signs of splits or perishing, the hose can be cut shorter to eliminate the defective area.

- b. Immerse the end of the hose in warm soapy water to aid in inserting the fittings.
- c. Place the ferrule over the end of the hose and make sure it is all the way to the end.
- d. Insert the fitting MYH3981 all the way into the hose.

CAUTION

Ensure the ferrule is not crimped all the way to the end. Approx 2 mm uncrimped at the end will allow the ferrule to taper outwards away from the hose so that it does not cut the hose during normal operation.

- e. The ferrule is to be crimped by a hose specialist. Using a suitable crimping swage.

END

Distribution List: **VEH G 16.1 – Code 1** (Maint Code)
(Sponsor: CGSV SPO LT B VEHICLES)