

RESTRICTED

**ELECTRONICS AND MECHANICAL
ENGINEERING REGULATIONS**
(Auth : AI 25/73)

**WHEELED VEHICLES
VW/N 526/1
No 1**

**LORRY 5/7.5 TON ASHOK LEYLAND STALLION
4X4 MARK - II, III and IV VEH**

Permissive Repair Schedules

GENERAL

1. This PRS indicates the general scope of repairs to above mentioned vehicles and its assemblies which can be undertaken at Unit (i.e Driver), URO, Light, Field, Intermediate and Base levels.
2. The allocation of work in the PRS to various level of workshops is by no means rigid and may be varied by formation EMEs to unit suiting the prevailing local conditions. In the PRS, a higher echelon workshop has been permitted and made capable of undertaking all the works assigned to wksp of lower echelons. However, a Field Repair Workshop will undertake the lower echelon repair work only under the following circumstances :-
 - (a) Vehicles belong to the units having no URO/LRW.
 - (b) Vehicles of Units having URO/LRW when light repair work becomes necessary as a part of the process of field repairs and otherwise.
3. This PRS is divided into 22 sections covering all the principal assemblies and components which are likely to need repair or replacement. The job listed under the appropriate column against the principal assemblies and components automatically include all jobs covered under lower echelons.
4. To make it concise, abbreviations given below are used wherever possible :-
 - (a) A - Adjust/Tighten/Clean/Lubricate
 - (b) C - Change
 - (c) I - Inspect
 - (d) O - Overhaul
 - (e) R - Repair
5. Change of parts from one vehicle to another vehicle should be resorted to only when no other course would meet the need. It should be remembered that any serviceable part removed from a damaged vehicle or assy must be replaced with the unserviceable part taken from the vehicle or assembly undergoing the repairs. This is to ensure that when recovered, the vehicle or assembly requiring major repairs will arrive at the higher echelons with all the components/parts.
6. This PRS has been prepared by MAG No 12, C/o VRDE, Ahmednagar. Suggested amendments with reasons should be submitted through EME channels to HQ Tech Group EME (AE Wing), Delhi Cantt-10. The PRS lays down the plan of repairs for operational conditions and this aspect should be given full consideration before putting up recommendations for any amendments.
7. This EMERs supersedes EMER No VW/N 526/1, No 1, Issue 1, dt 08 Jun 99, VW/N 526/1, No 1, Issue 2, dt 29 Jun 2000 and VW/N 526/1, No 1, Issue 3, Mar 2006 its amdts on PRS for Ly 5/7.5 Ton Stallion Mk-II and Mk-III Veh.

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<i>Ser No</i>	<i>System/ Component</i>	<i>Repair Levels</i>			<i>Field Wksp/ Intermediate Wksp</i>	<i>Remarks</i>
		<i>Unit</i>	<i>URO</i>	<i>LRW</i>		
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>

Section - 1 : Engine Assy

1.	Eng Assy				R/C/O	
2.	Big end Brg				R/C	
3.	Cyl Blocks and Cylinders			Joints Drain Plg - C	Stud and Fittings - R/C	
4.	Main Brgs				Tighten to Reqd torque	
5.	Tappet and Tappet Guide		Tappet - A Cover Gasket - C Cap Oil Filter - C		Components - R/C	
6.	Timing gears				Gear - R/C	
7.	Valve Springs and Valve Guides				Grind Valves and Valve Seats. Components - R/C	
8.	Valve Rocker				Rocker - R/C	
9.	Engine (Less all External Minor Assy)		Stop Leakage	Rubber Mtgs C	Oil Seal Crank Shaft, Front End Plate Gasket - R/C	
10.	Cylinder Head				Glow Plug - R/C Components - R/C	
11.	Lubricating Sys		Filter Element – C	Drain Plug Washer - C	Oil pump, Sump Heater and Oil Cooler, Screen Oil Strainer - R/C	

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12.	Fly Wheel Hsg Fly Wheel		Tighten Mtgs	Mtgs - A	Flywheel Assy - R/C Ring Gear - C	
13.	Eng Speed Sensor	-	-	-	C	
Section - 2 : Induction System						
14.	Inlet Manifold	Mtgs - A Clips for Hoses - C	Gasket - C	Hoses - C	Valve S/A Waste Gate Safety and Manifold - R/C	
15.	Air Cleaner	Element Clean	Element - C	Pipe - R/C Assy - R/C	- R/C - R/C	
16.	Hoses		Hoses - C			
17.	Boost Pressure Sensor		-	-	C	
18.	Blank					
Section - 3 : Exhaust System						
19.	Exhaust Manifold		Gasket - C	Gasket - C	Manifold - R/C	
20.	Exhaust Pipe		Stop Leakage	R	R/C	
21.	Silencer and Muffler Box		Stop Leakage	R	R/C	
Section - 4 : Turbocharger						
22.	Assy			Gasket - C Banjo bolt - C	Assy - R/C	
Section - 5 : Air Compressor						
23.	Assy				Assy - R/C	
Section - 6 : Cooling System						
24.	Rubber Hoses and Clips	Hoses and Clips - C	Hoses and Clips - C	Drain Cock - C	R/C	

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25.	Pipes			R/C		
26.	Fan and Fan Belt	Belt - A/C	Belt - A/C	C	Assy - R/C	
27.	Thermostat				R/C	
28.	Water Pump		Gasket - C	C	R/C	
29.	Radiator			Carry out Minor Repairs	R/C	
30.	Coolant Temp Sensor -		-	-	C	
31.	De - Aeration Tank -		-	C	R/C	
Section - 7 : Fuel Systems						
32.	Fuel Tank and Fittings		Stop Leakage	Straps and Bracket - R/C	R/C	
33.	Fuel Pipes Unions and Cocks		Flexible Pipes - C	Compo- nents - R/C	Compo- nents - R/C	
34.	Fuel Filters		Elements and Sealing Ring - C	Assy - R/C	Assy - R/C	
35.	Fuel Filter Cum Water Separator	-	-	C	C	
36.	Strainer		-	C	C	
37.	Fuel Feed Pump		Bleed Sys	R/C	R/C	
38.	Fuel Inj Pump		Bleed Sys	Bleed Sys	Phasing and Calibration Assy - R/C	
39.	High Pressure Line		Stop Leakage	Pipes and Clamps - C	C	
40.	Fuel Injectors and Leak off pipe		Stop Leakage	C	C	

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41.	Governor				Components - R/C Set Governor	
42.	Accelerator Sensor - Injector Sensor		C	C	C	
43.	Accelerator Sensor Injector Sensor		-	-	C	
Section - 8 : Clutch Assy						
44.	Assy			Play - A, Clutch Plate-C	Clutch Plate - C and Repair Pressure Plate by Machining, Assy - R/C	
45.	Pedal and Linkages		Free Play - A	R	R/C	
46.	Release Brg			C	C	
47.	Hydraulic Cyls			Slave Cyl Master Cyl - R	R/C	
Section - 9 : Gear Box						
48.	Assy			Mtg Bolt - C	Assy - R/C	
49.	Housing		Drain, Filler Plug - C	Joint and Gasket - C	R/C	
50.	Gear Shift Lever				R/C	
51.	Gear Shift Mechanism and Top Cover			Gasket - C	R/C	

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Section - 10 : Auxiliary Gear Box

52.	Assy				Assy - R/C	
53.	Casing and Cover			Top Cover Gasket - C	R/C	
54.	Shaft and Gears				C	
55.	Bearing Thrust Washer and Oil Seals				C	
56.	Veh Speed Sensor	-	-	-	C	

Section - 11 : Propeller Shaft

57.	Shaft	Mtg - A Nipple - C			R/C	
58.	Universal Joints			Joints - C	Complete Assy R/C	

Section - 12 : Front Axle Assy

59.	Axle Assy		Stop Leakage Toe- in-A Nipple - C	R	Components - C	
60.	Differential Assy			R	Components - C	

Section - 13 : Rear Axle Assy

61.	Assy		Stop Leakage Nipple - C	R	Components - C	
62.	Differential Assy				R/C Components - C	

Section - 14 : Chassis

63.	Chassis and Cross member				Check Alignment or Inspect	
64.	Bumper Fittings				R	

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Section - 15 : Suspension System

65.	Road Springs Front and Rear		Centre Bolt- C	Assy - R/C	R/C	
66.	Shackle Pin U-Bolt and Clamps	Mtg - A Grease Nipple - C	U Bolt - C	Component - C	Component - C	
67.	Shock Absorber	Mtg - A		C		
68.	Tow Hook				R/C	

Section - 16 : Wheel and Tyres

69.	Wheel	Nuts - C			R	
70.	Wheel hubs		Hub Locknut and Check Nut - A	Stud - C	R/C	
71.	Inner Tube	Repair by Hot Seal				

Section - 17 : Steering System

72.	Steering Gear Assy		Stop Leakage	Stop Leakage Dust Cap - C	Side and Axial R/o Play - A, R/C	
73.	Hoses		Connection - A	C	C	
74.	Drag Link	Nipple - C			Assy - R/C Components - C	
75.	Mtg and Bracket	Mtg - A			Bracket - R	
76.	Steering Pump				Assy - R/C Components - C	

Section - 18 : Brake System

77.	Shoe, Linings, Springs, Steel, Pipes and Flexible Hoses		Brake – A	Lining, Dust Cover and Spring - C	Assy/Steel Pipes/Flexible Hoses - R/C	
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78.	Switches			C		R/C
79.	Valves					R/C
80.	Brake Drum					Repair by Machining/C
81.	Filters					C
82.	Cartridge			C		C
83.	Brake Pedal and Linkages		Free Play - A Pedal Pad, Rubber Boot - C	Free Play - A Pedal Pad, Rubber Boot - C		R/C
84.	Brake Chambers					R/C
85.	Parking Brake		A	A		R/C
86.	Exhaust Brake		Linkages - A	Linkages - A		Solenoid Valve - R/C
Section - 19 : Instruments						
87.	Speedometer/ Cables		C	C		Assy - R/C, Seal Unit Cable - C
88.	Fuel Gauge		C	C		R/C
89.	Temp Gauge		C	C		R/C
90.	Ammeter		C	C		R/C
91.	Oil/Air Pressure Gauge		C	C		R/C
Section - 20 : Electrical System						
92.	Alternator		Connection - A	R		R/C Components - C
93.	Starter Motor		Connections - A	R		R/C Components - C
94.	Switches		Connections - A	R/C		R/C

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95.	Bty and Cables	A	A	Terminal, Cable - C	Terminal Post - R/C Bty top - R Condition bty	
96.	EDC	-	-	-	R/C	
97.	Flange Heater	-	-	-	R/C	
98.	Sump Heater	-	-	-	R/C	
99.	Lamps and Wire		External Bulbs - C	Lamps - R/C Wiring - R/C	R/C	
100.	Buzzer			C	R/C	
101.	Relays			C	R/C	
102.	Flasher Unit		C			
103.	Horns		C	C	R/C	
104.	Fuses and Junction Box	Fuses - C	Cover - C	Assy - C	Assy - C	

Section - 21 : Pneumatic System

105.	Pipe and Hoses	-	-	R/C	R/C	
106.	Valves-Pr/Safety Protection/Ball/ Drain/DC/ Diff Lock	-	-	R/C	R/C	
107.	Distributor	-	-	-	R/C	
108.	Switch Rotary Diff Lock				R/C	
109.	Seals/Gaskets				C	

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Section - 22 : Cabin						
110.	Assy		-	R		R/C
111.	Windshield Glass and Window Glasses/Weather Strips and Frames		Frame/Glass and Rubber Beeding - C			C
112.	Wiper Motor, Wiper Arm and Blade		Wiper Arm with Blade - C	Wiper Motor - C		R/C
113.	Door, Door Locks Window Mtgs and Fittings	Mtg - A				R/C
114.	Seat Upholstry Mats and Mud Fittings		Mud Flap - C	Minor - R Mats and Mud Flap - C		R/Fabricate
115.	Bonnet Pneumatic Sys	-	-	-		Assy - R/C
116.	Mountings			Insulator - C		Assy - R/C
117.	Cab Tilting Mechanism			- R		- R/C
118.	Cab Suspension			- A		Assy - R/C
119.	Wind Screen Washing Unit			Minor - R		Assy - R/C
120.	Demister			Minor - R		Assy - R/C
121.	Spare Wheel Winch Assy					Assy - R/C
122.	Tai Board and Side Wall			- C		- R/C

E N D

(74164/Stln/AE-7)
(D-3545/Tech Pubs)
Issue 4, Sep 2015

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