

DIRECTORATE GENERAL BORDER ROADS

GENERAL MAINTENANCE INSTRUCTION NO 50

ON

VEHICLE DEFECTS AND ABNORMAL WASTAGE OF

SPARE PARTS PECULIAR TO DESERT TERRAIN

Defects due to Continuous Driving on Loose Sand

1. Prolonged use of low gear ratios in 4X4 drive resulting in overheating of engine.
2. Slippage leading to undue strain on engine.
3. Bogging down of vehicle leading to strain on engine and wear of clutch plates.
4. Breakage of road springs.

Premature Wear on Parts due to Abrasive Action of Sand Particles

5. Wear of carburetor needle valves, seats and jets leading to over flooding.
6. Wear on dynamo armature shaft and bushes, self starter pinion bush, starting do thread, wheel bearings and shock absorber, entailing replacement of components.
7. Leakage of oil from oil seals, especially from gear box, differential and wheel drums.

Deterioration of Rubber Items due to Combined Effect of Sand and Heat

8. Perishing of rubber boots leading to grinding action by sand particles on moving components.
9. Perishing of rubber cups and pipes in brake system causing sponginess of brakes.
10. Deterioration of rubber hoses, gaskets and pipes leading to leakage of fluids.

Defects due to the Presence of Fine Particles in the Fuel System.

11. Clogging of fuel line, pump and carburetor
12. Clogging of fuel filters and air cleaners.

Fast Moving Spare Parts.

13. Oil seals various types.
14. Gaskets various types.
15. Bushes various types.

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16. Filters and elements various types.
17. Rubber boots, cups, pipes and hoses.
18. Repair Kits – Carburetor, pumps, brakes.
19. Components of dynamo, starter motor, distributor.
20. CB Point sets, Spark plug
21. Clutch release bearings, pressure plates and discs.
22. Road springs.
23. Tyres and tubes.

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