DIRECTORATE FENERAL BORDER ROADS

GENERAL MAINTENANCE INSTRUCTION NO 58

ON

REMOVAL OF BONNET SIDE PANELS OF ALL VEHICLES

1. **Summery**: - Removal of bonnet side panels in order to lower engine temperature and cool the driving cab.

2. **Items affected**: - Bonner side panels.

3. **Action: -** By all personnel concerned.

4. **Detail**: - The removal of bonnet side panels in order to lower the temperature inside the cab is detrimental to the cooling of the engine. The engine bonnets (Top and side panels) forms an air tunnel, which directs air on to and around the engine for cooling. If the side panels are removed, the effectiveness of the air tunnel is lost, as the air drawn through the radiator by the fan goes out of the engine compartment, and is not directed over the whole engine. This decreases cooling efficiency, and tends to raise engine temperatures above normal.

5. **Instruction**: - When the vehicle is in motion, the engine bonnets top and side panels will invariably be kept closed. When the vehicle is stationary, the engine bonnets, and side panels may be opened to assist cooling by radiation and convection.

HQ DGBR GMI No 58
Dated 11 Dec 1971.

END