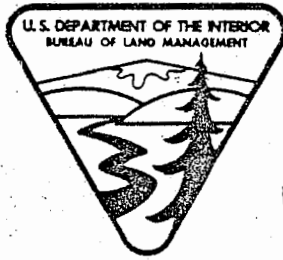


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TECHNICAL NOTE

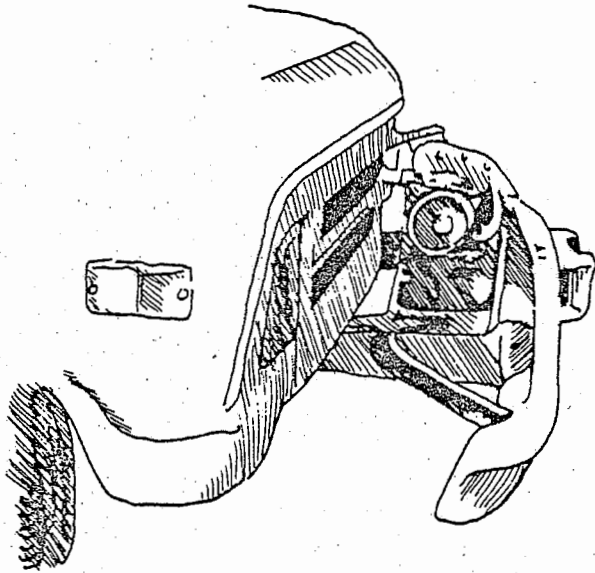
U.S. DEPARTMENT OF THE INTERIOR - BUREAU OF LAND MANAGEMENT

RECESSED ELECTRIC WINCH INSTALLATIONS

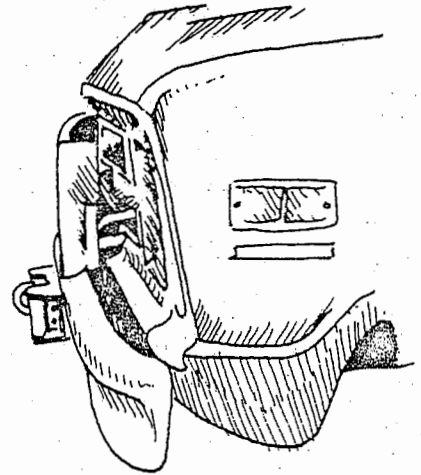
The present practice of the Bureau of Land Management in electric winch installation is illustrated in Fig. 1. This type of installation requires that the bumper be extended approximately 15 in., which makes the vehicle harder to operate, i.e., parking, crossing arroyos, etc. The extension also creates a potential safety hazard while parking the vehicle.

To correct these conditions, District Offices are beginning to recess their winches inside the grillwork wherever practical, as illustrated in Figs. 2, 3, and 4, and as practiced by the International Harvester Company on their Scouts. This method of installation saves extending length of the vehicle by 15 in. to 1 in., which eliminates the safety hazard, and makes a practical installation. The installation also provides more protection to the winch and controls.

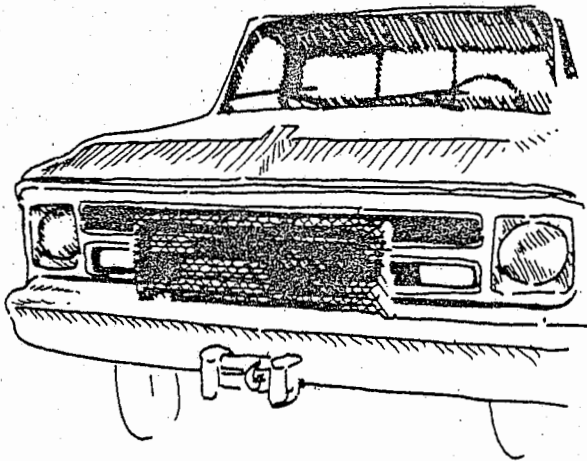
Attachment



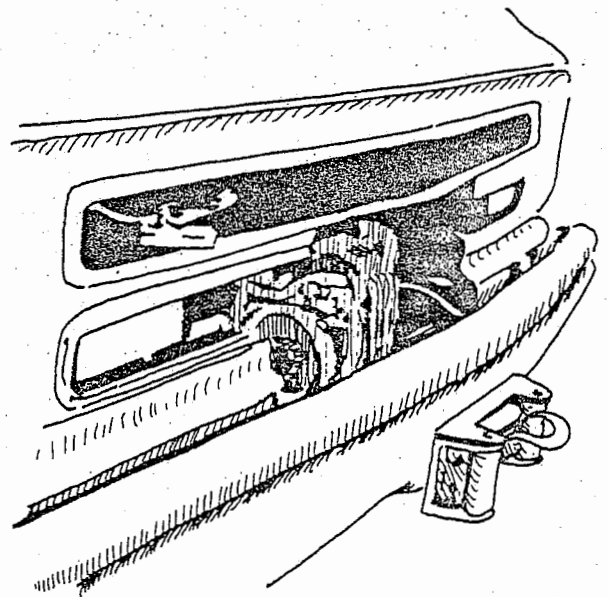
1.



2.



3.



4.