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Automatic Camper Leveler

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AUTOMATIC CAMPER LEVELER

Prepared For:
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Chairman, Manufacturing Technology Department
Indiana University - Purdue University
At Fort Wayne

To Fulfill The Requirements For
Senior Design Project
M.E.T. 497

Prepared By;
Rick A. Cutigni
May 4, 1981

ABSTRACT

The Automatic Camper Leveler is an electrical system that attaches easily to most 1000 - 2000 lb. pull-type recreational vehicles. The system consists of two motor-operated screwjacks mounted under the trailer in approximately the same place as the original leveling jacks. When the centrally located controls, one control for each screwjack, is activated, the motors will lift, level, and stabilize the R.V. When the trailer is leveled, the motors will automatically be switched off by two mercury switches mounted in the bumper of the R.V.

The leveling system was attached to a Starcraft Starlet XL, a small fold-down recreational vehicle. The system accurately leveled the R.V. to within 1/2 in.

The Automatic Camper Leveler will automatically level a recreational vehicle in places where the terrain is reasonably smooth and the grade no more than 2°. A 48 amp. battery, mounted on the trailer, will supply the unit with enough power for use in remote areas. The motorized screwjack arrangement will allow smooth and safe operation when leveling and stabilizing the vehicle.

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