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Design, Fabricate, and Test an Automatic Opener for Dual, Swinging Shed Doors

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FINAL REPORT ON A PROJECT TO DESIGN, FABRICATE, AND TEST AN
AUTOMATIC OPENER FOR DUAL, SWINGING SHED DOORS

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Presented on: April 28, 1988

INFORMATIVE ABSTRACT

Many people own garages or large sheds equipped with overhead doors. Today, many of these doors are equipped with garage door openers. One 30' x 12' shed, however, is not equipped with an overhead door. It is equipped with dual, swinging, 5½' x 7' wood-framed steel doors. These doors were difficult to restrain when being opened or closed. This report details the completion of the Swinging Shed Door Opener Project (SSDO). The SSDO is a mechanism designed to automatically open, close, and restrain the doors described above. The report begins by introducing background material and the problem. It follows with mechanism and process descriptions, as well as design criteria for the SSDO. Next, a description of the fabrication of the SSDO is provided. After this, the test criteria and test results are detailed and evaluated. The report is concluded with a cost breakdown of the SSDO, and comments on the success of the project.

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