ANSI/ASAE S377 DEC1974 (R2015)
Application of Remote Linear Control Devices to Lawn and Garden Ride-on Tractor Attachments and Implements

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Developed by the ASAE Small Tractor and Power Equipment Committee; approved by the Power and Machinery Division Standards Committee; adopted by ASAE December 1974; revised editorially December 1975; reconfirmed December 1979; reconfirmed and revised editorially December 1984; reconfirmed December 1989; approved as an American National Standard April 1990; reaffirmed by ASAE December 1994; reaffirmed by ANSI December 1995; reaffirmed by ASAE December 1999; reaffirmed by ANSI June 2000; reaffirmed by ASAE February 2005; reaffirmed by ANSI March 2005; reaffirmed by ASABE December 2009; reaffirmed by ANSI January 2010; reaffirmed by ASABE and ANSI May 2015.

Keywords: Control, Electric, Hydraulic, Lawn, Tractor

1 Purpose and Scope

1.1 The purpose of this Standard is to establish common mounting and clearance dimensions for remote linear control devices as applied to lawn and garden ride-on tractor attachments and implements with such other specifications as are necessary to accomplish the following objectives:

1.1.1 To permit use of any make or model of attachment or implement adapted for control by a remote linear control device.

1.1.2 To facilitate changing the remote linear control device from one attachment or implement to another.

2 Definitions

2.1 Body end: The end containing the means of powering the device.

2.2 Reciprocating end: The moveable end of the device opposite the body end.

2.3 Motor housing: The housing which is mounted to the body end of the electric linear actuator.

2.4 Attaching pins: Fixed trunion pins located on the body end and a loose pin on the reciprocating end of the device for attachment of device to tractor attachments or implements.

2.5 Remote installation: Neither end of the linear control device is attached to the basic tractor.

3 Classification and Rating

3.1 For purposes of application, remote linear control devices are divided into two categories, hydraulic cylinders and electric linear actuators as shown in Figures 1 and 2.

3.2 Specifications for mounting and capacities are shown in Table 1.

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