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Agricultural and Biological Engineers

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ANSI/ASABE AD500P1:2014 FEB2015

Revision approved March 2015 as an American National Standard

Agricultural tractors — Rear-mounted power take-off types 1, 2, 3 and 4 — Part 1: General specifications, safety requirements, dimensions for master shield and clearance zone

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This standard was reviewed and approved for adoption by the ASABE Power and Machinery Tractors and Tractor Implement Interface/PTO Technical subcommittees, and has been formally approved. This adoption along with the adoption with deviations of ISO 8759-1:1998 and ISO 8759-2:1998 and the identical adoptions of ISO 500-2:2004, and ISO 500-3:2004 replaced ASAE S203.14 and ASAE S513. Rear mounted PTOs are addressed in the ISO 500 adoptions, front mounted in the ISO 8759 adoptions. Adopted by ASABE December 2010; approved as an American National Standard January 2011; revised October 2011; revision approved by ANSI November 2011; replaced with adoption with deviations of ISO 500-1:2014 February 2015; approved by ANSI March 2015.

Keywords: Clearance zone, Master shield, Power take-off, Requirements, Safety, Speed, Tractors

0 Foreword

0.1 ANSI/ASABE AD500-1:2014, Agricultural tractors — Rear-mounted power take-off types 1, 2, 3 and 4 — Part 1: General specifications, safety requirements, dimensions for master shield and clearance zone, is an adoption with deviations of the identically titled ISO 500-1:2014, Agricultural tractors -- Rear-mounted power take-off types 1, 2, 3 and 4 — Part 1: General specifications, safety requirements, dimensions for master shield and clearance zone, Deviations noted in the following Foreword sections pertain to those provisions where harmonization could not be achieved between ASABE and the International Standard.

0.2 ANSI/ASABE AD500-1:2014 gives general specifications, including speeds, safety requirements, the dimensions for the master shield, and clearance zones for rear-mounted power take-offs (PTO's) of types 1, 2, 3, and 4 on agricultural tractors with a track setting of more than 1 150mm (those with a track setting width of 1 150mm or less are covered in ASABE/ISO 500-2:2004). This scope is identical to the scope of ISO 500-1 except for:

0.2.1 The inclusion of over speed requirements

0.2.2 Referencing ASABE/ISO 500-2:2004 in place of ISO 500-2.

NOTE: Front mounted PTO is addressed in ANSI/ASABE AD8759-1:1998, Agricultural wheeled tractors — Front-mounted equipment — Power take-off and three-point linkage, which is the adoption with deviations of ISO 8759-1:1998.

0.3 Two normative references are listed in ISO 500-1:2014. The responsible ASABE committee has reviewed these references and approved the following deviation:

0.3.1 Replace ISO 5673-2, Agricultural tractors and machinery — Power take-off drive shafts and power-input connection — Part 2: Specification for use of PTO drive shafts, and position and clearance of PTO drive line and PIC for various attachments with ASABE adoption ANSI/ASABE AD5673-2:2005 SEP2014, Agricultural tractors and machinery — Power take-off drive shafts and power-input connection — Part 2: