

Operation and maintenance of earth-moving machinery —

Part 1: Guide to common maintenance and adjustment service tools

[ISO title: Earth-moving machinery — Service tools —
Part 1: Common maintenance and adjustment tools]

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Committees responsible for this British Standard

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- Associated Offices Technical Committee
- Construction Industry Training Board
- Construction Plant-hire Association
- Department of Trade and Industry [Mechanical Engineering and Manufacturing Technology Division (Mmt)]
- Federation of Civil Engineering Contractors
- Federation of Manufacturers of Construction Equipment and Cranes
- Health and Safety Executive
- Institution of Civil Engineers
- Institution of Highways and Transportation
- Ministry of Defence

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National foreword

This Part of BS 6913 is a minor revision of BS 5484-1:1987 incorporating changes to Table 1 (tool numbers 1, 3 and 10) and has been prepared under the direction of the Road Engineering Standards Committee. It is identical with ISO 4510-1:1987 “*Earth-moving machinery — Service tools — Part 1: Common maintenance and adjustment tools*”, published by the International Organization for Standardization (ISO). This Part of BS 6913 supersedes BS 5485-1:1987, which is withdrawn.

ISO 4510-1 was produced as a result of international discussion in which the UK took an active part.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Wherever the words “part of ISO 4510” appear, referring to this standard, they should be read as “Part of BS 6913”.

Cross-references

International Standard	Corresponding British Standard
	BS 1580 <i>Specification for unified screw threads</i>
ISO 263:1973	Part 1 & 2:1962 <i>Diameters ¼ in and larger</i> Part 3:1965 <i>Diameters below ¼ in</i> (Technically equivalent)
ISO 1703:1983	BS 6416:1983 <i>Nomenclature for assembly tools for screws and nuts</i> (Identical)
ISO 6165:1978	BS 5718:1979 <i>Glossary of terms for basic types of earth-moving machinery</i> (Identical)
ISO 6750:1981	BS 6228:1985 <i>Guide to format and content of manuals on operation and maintenance for earth-moving machinery</i> (Identical)

Reference is also made in the bibliography to ISO 1085, ISO 1174, ISO 2380, ISO 2725, ISO 2936, ISO 3315, ISO 3316 and ISO 3318. As these standards are referred to for information only the validity of this Part of BS 6913 is not affected. A related British Standard to ISO 1085:1974 and ISO 3318:1982 is BS 192:1982 “*Specification for open-ended wrenches*”. A related British Standard to ISO 2380:1979 is BS 2559 “*Screwdrivers*” — Part 1:1971 “*Screwdrivers for slotted head screws*”. A related British Standard to ISO 2936:1983 is BS 4168 “*Hexagon socket screws and wrench keys: metric series*” — Part 9:1983 “*Specification for wrench keys*”.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope and field of application

This part of ISO 4510 lays down, for guidance, the tool groupings commonly used for carrying out on-site, normal maintenance and routine adjustment work on earth-moving machinery as defined in ISO 6165.

Manufacturers should choose suitable tools from Table 1 for normal maintenance and routine adjustment work, and specify in suitable manuals, as described in ISO 6750, the type of tools to be used for carrying out such maintenance and adjustment work.

2 References

ISO 263, *ISO inch screw threads — General plan and selection for screws, bolts and nuts — Diameter range 0.06 to 6 in.*

ISO 6165, *Earth-moving machinery — Basic types — Vocabulary.*

ISO 6750, *Earth-moving machinery — Operation and maintenance — Format and content of manuals.*

3 Types and sizes

The metric and inch sizes shown under the heading “Nominal dimension” in Table 1 are not intended to be equivalent, but represent actual dimensional sizes for tools conforming to the metric and inch nomenclature. There is not, therefore, an automatic inch equivalent for every metric size shown.

4 Application of hand tool groups

The Annex outlines, in the form of general guidelines, when and how to apply the hand tool groups given in Table 1 intended for on-site normal maintenance and routine adjustment work on the machines.