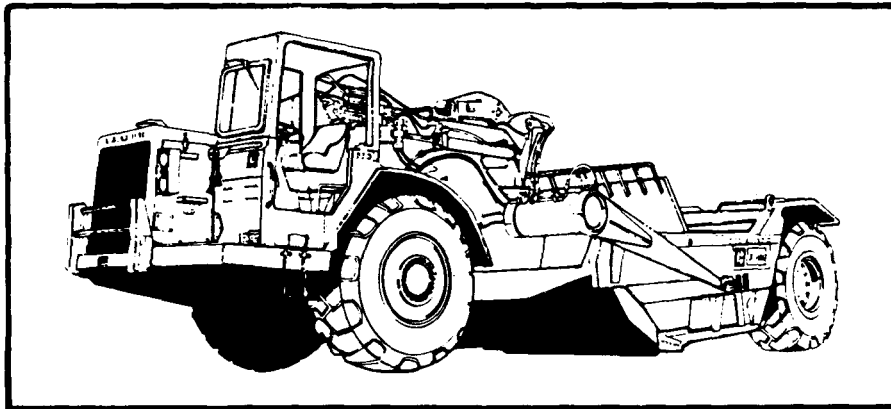


TECHNICAL MANUAL
FOR SCRAPER, EARTH MOVING, MOTORIZED
DIESEL ENGINE DRIVEN
NSN 3805-01-153-1854



REPAIR PARTS

HEADQUARTERS, DEPARTMENT OF THE ARMY
AUGUST 1985

TECHNICAL MANUAL
NO. 5-3805-248-14&P-4

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC 19 Aug 1985

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REPORTING OF ERRORS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) or DA Form 20282 located in the back of this manual direct to: Commander, US Army Tank-Automotive Command, ATTN: AMSTAMPB, Warren, MI 483975000. A reply will be furnished direct to you.

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This technical manual is an authentication of the manufacturers commercial literature and does not conform with the format and content specified in AR 310-3, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

MACHINE IDENTIFICATION

Caterpillar machines are identified with SERIAL NUMBERS. Serial numbers are assigned to the chassis and to the engine. The chassis and the engine also carry ARRANGEMENT NUMBERS and in some cases MODIFICATION NUMBERS. These numbers are shown on the serial number plates and on the master plate in the operator's compartment. For the location of the serial number plates, refer to the Specification Section at the back of this Parts Book. Caterpillar dealers need these numbers to determine which components were included on the machine when it was assembled at the factory. This permits accurate identification of replacement part numbers.

ORDERING PARTS

Quality Caterpillar Replacement parts are available from Caterpillar dealers throughout the world. Their parts stocks are up to date and include all parts normally required to protect your investment in Caterpillar machines. When ordering parts, your order should specify the quantity, part number, part name and the serial number, arrangement number and any modification numbers of the machine for which the parts are needed. If in doubt about the part number, please provide your dealer with a complete description of the needed item.

HOW TO USE THE PARTS BOOK

Caterpillar Parts Books include illustrations of the groups or assemblies which make up the machine. These illustrations show the standard components plus many of the attachments available for the machine.

The alphabetical index located in the front part of the book should be used to determine the page number on which specific illustrations are shown. Reference to those pages will identify each of the individual serviceable parts.

Captions

The caption under each illustration identifies the part number and name of the group or assembly shown. If more than one illustration is included for any group, the caption identifies the specific machine serial numbers to which each illustration applies. In some cases it is not possible to determine the specific machine serial numbers to which different illustrations are applicable. In those cases the caption identifies the illustration as "First Type", "Second Type", etc. Reference to the actual group or assembly is necessary in those cases to determine which illustration should be used.

Captions provide additional information such as page numbers where illustrations of sub assemblies are shown, information regarding quantities used and other information intended to assist the user in determining parts needs.

Indented Part Names

Within each illustration is a parts list identifying each serviceable part in the illustration. When a part name is indented in this list, it means that serviceable item is a part of the serviceable item under which it is indented.

Abbreviations and Symbols

- A Used to call attention to additional information shown elsewhere within the illustration.
 -
 - R.H. Right Hand Refers to the side of the machine as viewed from the operator's compartment.
 - L.H. Left Hand
 - C Indicates changes from the previous illustration of the same group or assembly.
 - O.D. Outside Diameter
 - I.D. Inside Diameter
 - N/S Not Serviced
 - Assem. Assembly
 - in. Inch
 - ft Foot
 - cm Centimeter
 - dm Decimeter
- Note: Continuing improvement and advancement of product design may cause changes to your machine which may not be included in this publication. Each publication is reviewed and revised, as required, to update and include these changes in later editions.

Whenever a question arises regarding your Caterpillar product, or this publication, please consult your Caterpillar dealer for the latest available information.

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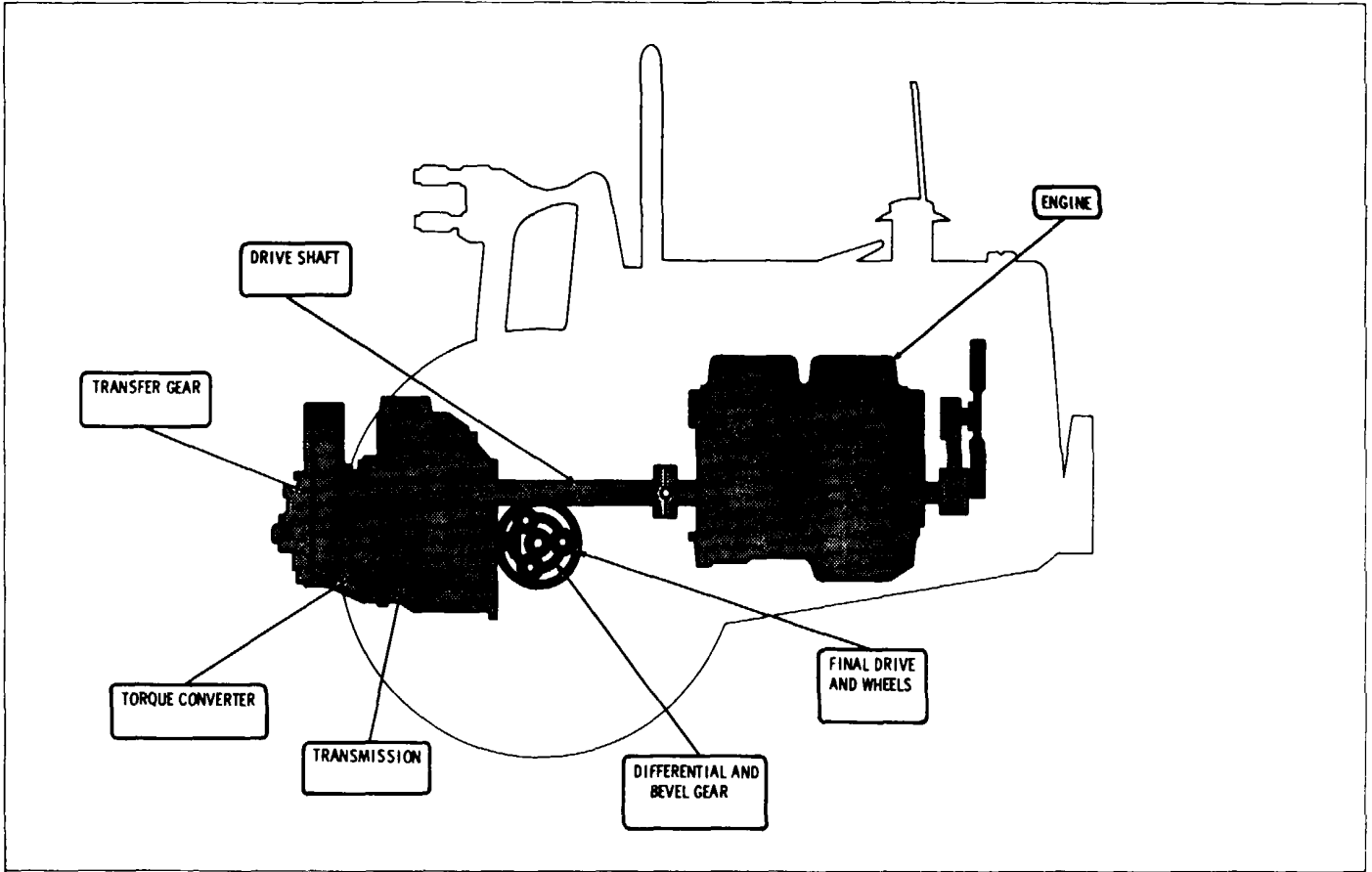
WARRANTY STATEMENT

The Caterpillar 621B Tractor-Scraper is warranted by Caterpillar Tractor Co. for 15 months or 1500 hours of operation, whichever occurs first. The warranty starts on the date found on the DA form 24089 in the log book. Report all defects in material or workmanship to your supervisor, who will take appropriate action through your organizational maintenance shop.

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REFERENCE GUIDE
TO MAJOR SECTIONS**

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POWER TRAIN - POWER TRANSMISSION UNIT	▶
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CHASSIS	▶
HYDRAULIC SYSTEM	▶
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CATERPILLAR 621B TRACTOR



POWER TRAIN ARRANGEMENT

POWER TRAIN ARRANGEMENT

CATERPILLAR 621B TRACTOR

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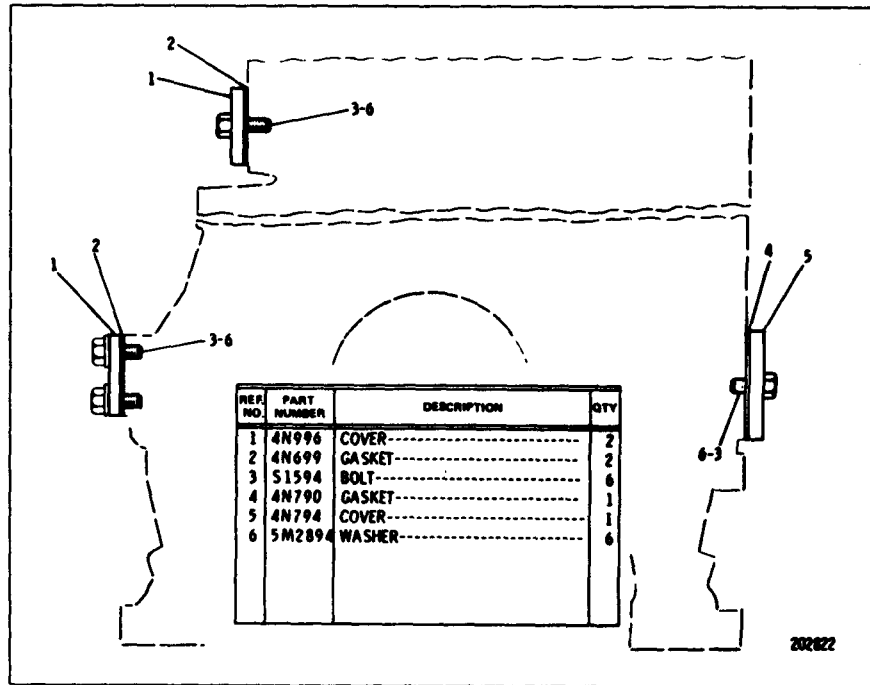
5R6706 ENGINE ARRANGEMENT-Part 1 of 2

NOTE: WHEN ORDERING PARTS GIVE ENGINE ARRANGEMENT

CATERPILLAR 621B TRACTOR

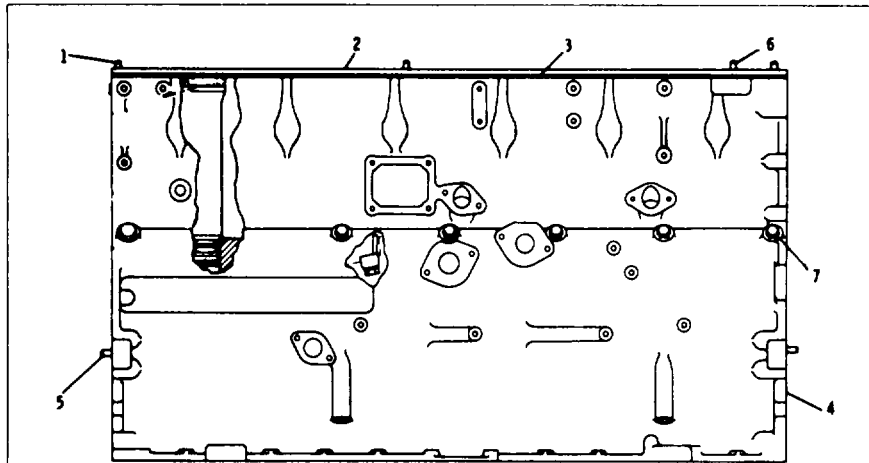
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NOTE: WHEN ORDERING PARTS GIVE ENGINE ARRANGEMENT			

BASIC ENGINE



9N664 CYLINDER BLOCK COVER GROUP

CATERPILLAR 621B TRACTOR

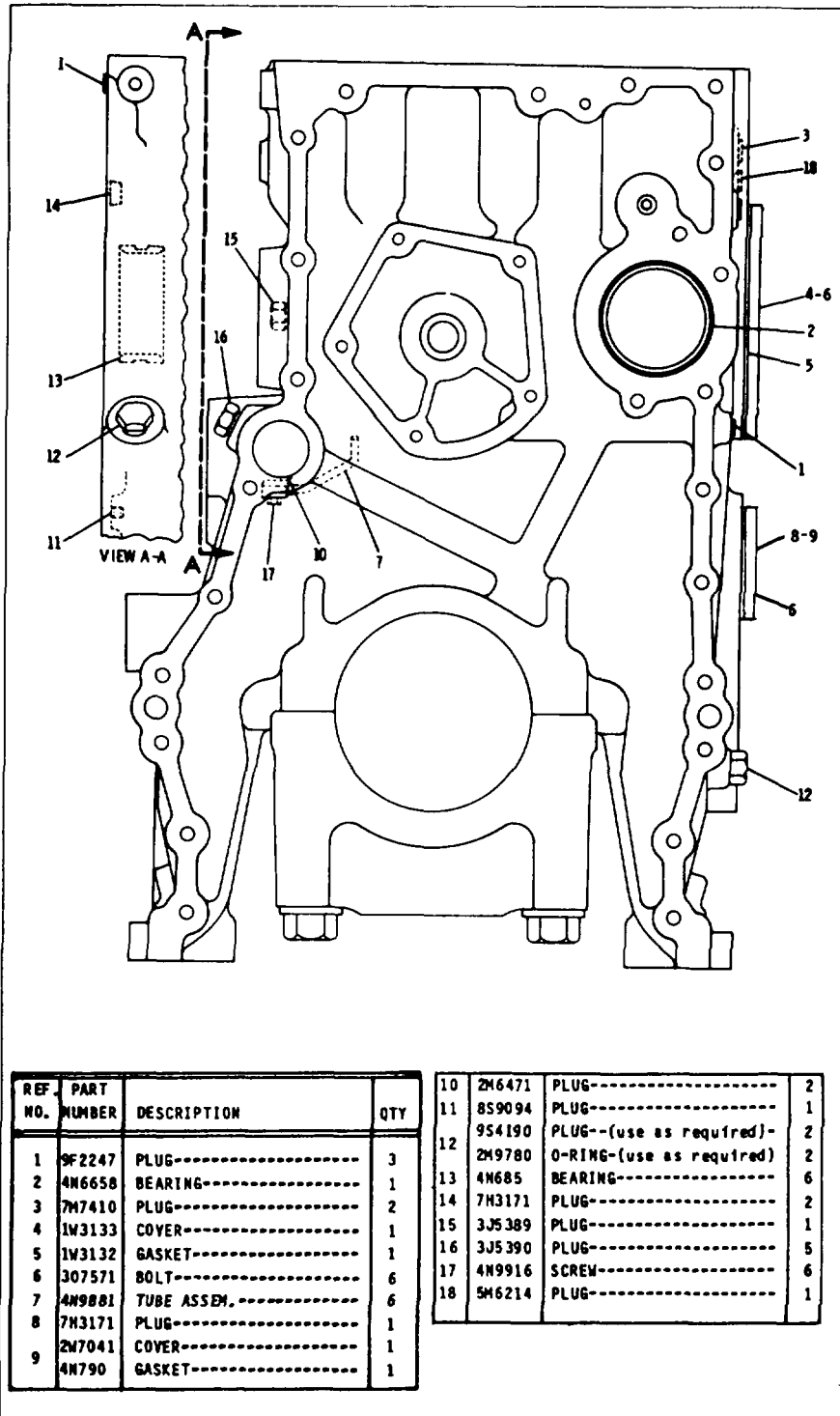


REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	4N1650	DOWEL-----	2
2	7N1199	PLATE-----	1
3	7N625	GASKET-----	1
4	8N9266	CYLINDER BLOCK ASSEM.---	1
		CONSISTS OF:	
	9L5854	BAND-----	6
	1W6280	LINER-----	6
	8N9265	BLOCK-----	1
	6V5321	SEAL-----	18
	3P1323	BOLT-----	14
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5	4N683	DOWEL-----	4
	1S9540	DOWEL-----	2
6	3S5496	SEAL-----	2
7	7M7410	PLUG-----	1

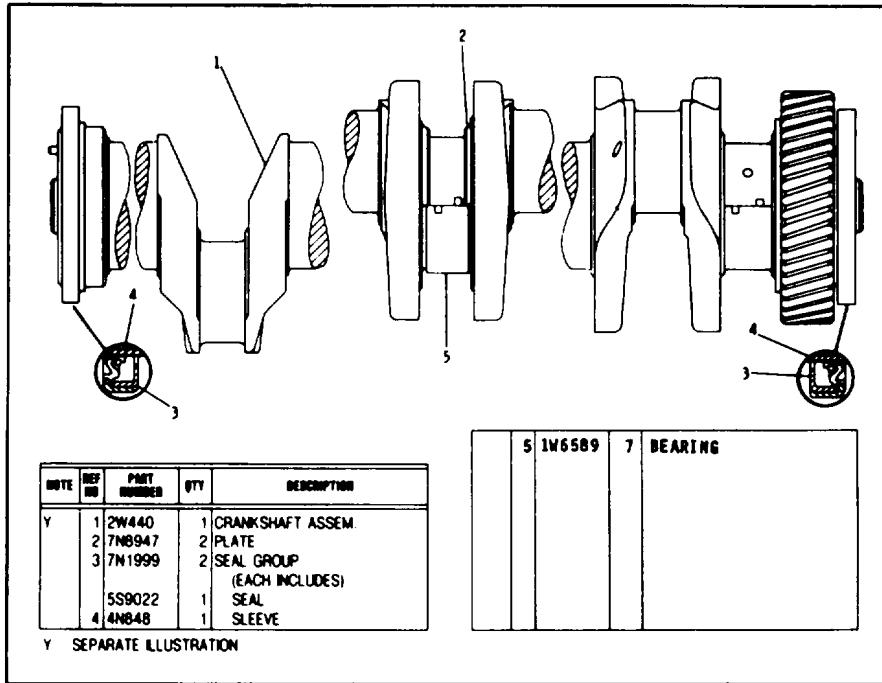
4N2257 CYLINDER BLOCK GROUP - Part 1 of 2

BASIC ENGINE



4N2257 CYLINDER BLOCK GROUP - Part 1 of 2

CATERPILLAR 621B TRACTOR



2W1732 CRANKSHAFT GROUP
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