

TECHNICAL MANUAL

**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT
AND GENERAL SUPPORT
MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS INFORMATION
AND SUPPLEMENTAL
MAINTENANCE AND REPAIR PARTS INSTRUCTIONS)
TRACTOR, FULL TRACKED, LOW SPEED,
HEAVY DRAWBAR PULL, (SIZE T-1 1)
W/ANGLE DOZER, WINCH AND ROPS
CATERPILLAR MODEL D8K-8A-58 (CCE)
NSN 2410-00-574-7597
AND
W/BULLDOZER (SEMI-U-TILT), RIPPER
AND ROPS
CATERPILLAR MODEL D8K-8S-8 (CCE)
NSN 2410-00-574-7598**

HEADQUARTERS, DEPARTMENT OF THE ARMY

This copy is a reprint which includes current pages from Change 1.

21 JULY 1981

WARNING

The proper and safe lubrication and maintenance procedures for this machine, recommended by Caterpillar, are outlined in the LUBRICATION & MAINTENANCE GUIDE for this machine. Improper performance of lubrication or maintenance procedures is dangerous and could result in injury or death. Read and understand the LUBRICATION & MAINTENANCE GUIDE before performing any lubrication or maintenance.

WARNING

To avoid possible weakening of this ROPS, consult a Caterpillar dealer before altering this ROPS in any way.

WARNING

The protection offered by this ROPS will be impaired if it has been structurally damaged or has been involved in an overturn accident.

WARNING

Seat adjustment should be checked at the beginning of each shift and when operators change.

WARNING

Always use seat belts when operating machine.

WARNING

Always check condition of seat belt and connecting brackets.

WARNING

Attach ground cable last, and remove first, to prevent sparks from occurring near the battery which could cause battery vapors to explode. Attach ground cable from booster battery to frame of machine to be started at a point away from, and below, the battery on the machine to be started.

WARNING

Use starting fluid sparingly. Follow manufacturer's instructions carefully.

WARNING

Do not store starting fluid in operator's compartment.

WARNING

Keep tractor under control at all times. Do not neutralize transmission or forward-reverse lever, or disengage fly-wheel clutch to allow machine to coast.

WARNING

Select gear range necessary before starting downgrade. Do not change gears while going downhill.

WARNING

Do not allow tractor to coast downhill.

WARNING

When load is pushing tractor, put gear selector in first speed before starting downhill.

WARNING

Do not release clutch or shift transmission while moving.

WARNING

Use extra caution when crossing side hills, ridges, logs and ditches.

WARNING

Make certain personnel are clear of cable when there is a load on the cable. Cable can break and cause personal injury.

WARNING

Exercise care with suspended loads. If engine speed is too low, the weight of the load may cause it to drop, even though the winch is in the Reel In position.

WARNING

Check travel route for overpass clearances. Make sure there will be adequate clearance if vehicle being transported is equipped with ROPS, cab or canopy.

WARNING

If the rack setting or the high idle speed is higher than the setting in the book RACK SETTING INFORMATION for the 'altitude' (height above sea level) at which the engine is operated, there can be damage to the engine or to parts of the turbocharger.

WARNING

Be sure to make an adjustment to the regulator so the air supply in the tank is a maximum of 15 psi (1.05 kg/cm²).

WARNING

When making the (cooling system) checks, fasten the transmission in neutral, put the parking brakes on and lower all equipment. Make all checks at engine LOW IDLE and on the side of the radiator opposite the fan. Wear eye protection.

WARNING

Never disconnect any charging unit circuit or battery circuit cable from battery when the charging unit is producing a charge.

WARNING

Disconnect batteries before performance of any service work.

WARNING

The (valve) locks can be thrown from the valve when the valve spring compressor is released. Make sure the locks are in the correct position on the valve.

WARNING

When (transmission) tests must be done in a closed area, activate the brakes and use blocks to prevent the machine from moving during the tests. Let only approved personnel on the machine. Keep other personnel off the machine and in view of the operator.

WARNING

Do not make any adjustments to the (transmission) linkage with the engine running.

WARNING

The adjuster cylinder for the track is under high hydraulic pressure. Do not visually inspect the relief valve to see if grease is being released. Check the adjuster cylinder that it moves to the rear into the front pilot for the recoil springs. Use this warning any time that the track is loosened or tightened.

WARNING

Make sure the hydraulic jack is tight against the track roller frame when the track is lifted.

WARNING

Make sure the hydraulic pressure in the track adjusting mechanism is completely released and the cylinder can be moved to the rear into the front pilot for the recoil spring before making a separation of the track or installing the track adjusting mechanism. On machines with badly worn tracks, it is possible for the hydraulic track adjuster to have a maximum forward adjustment and the stop will be against the front support for the track roller frame. The hydraulic track adjuster is under high pressure. Do not visually inspect the relief valve to see if grease is being released. Check the adjuster cylinder to see that it moves to the rear into the front pilot for the recoil spring. Use this warning any time that the track is loosened or tightened.

WARNING

Do not remove the front cover for the recoil springs until Step 4 (spring compression) is completed. If the front pilot for the recoil spring is broken, the procedure on page I140 must not be used. See RECOIL SPRINGS (with broken pilots) for correct procedures.

WARNING

The recoil springs are assembled under a force of several tons. This force is released against legs during disassembly. Caution must be used to make sure the correct tooling is used and the correct procedure is followed.

WARNING

The recoil springs are assembled under a force of several tons. This force is released against legs during disassembly. Caution must be used to make sure the correct tooling is used and the correct procedure is followed.

WARNING

Do not remove the hoist from the track roller frame at this time (following Step 6 of track roller frame disassembly).

WARNING

Make sure the track roller frame does not hit the equalizer bar when it is removed. Weight of the track roller frame is 8000 lb. (3629 kg).

WARNING

Do not hit the equalizer bar when the track roller frame is put in position.

WARNING

The recoil springs are under several tons of force. Do not remove cover until force is controlled by (proper) tooling.

WARNING

Do not put more than 50 ton (45t) of force on (pilot) bolt.

WARNING

(Valve assembly) Cover is under spring tension. Hold the cover in position when the bolts that hold it to the housing are removed.

WARNING

The access cover is under spring pressure. Hold the cover when the bolts that hold it are removed.

WARNING

Exercise care with suspended loads; if engine speed is too low, the weight of the load may cause it to drop, even though the winch is in the REEL IN position.

WARNING

Do not underwind cable onto winch drum unless the winch has been modified to operate in this manner.

WARNING

When testing or making an adjustment to the hydraulic system, move the machine to a location away from other moving machines. The operator must be sure that other personnel are not near the machine when the engine is running and he is making tests.

WARNING

To avoid possible weakening of the ROPS (Rollover Protective Structure), consult a Caterpillar Dealer before altering the ROPS in any way. The protection offered by the ROPS will be impaired if it has been subjected to structural damage or has been involved in any overturn accident.

WARNING

When using pressure air, wear safety glasses and protective clothing. Maximum air pressure must be below 30 psi (2 kg/cm²).

WARNING

(Corrosion) Inhibitor contains alkali, avoid contact with skin and eyes.

WARNING

Never service air cleaners with engine running.

WARNING

If track is sealed and lubricated type, secure track with chain before separating links. Sealed and lubricated track is very flexible. When disconnected, it can move and cause injury.

WARNING

Never visually inspect relief valve or fill valve to see if grease is escaping. Always observe the track to see if it has loosened.

WARNING

Never service air cleaners with engine running.

CHANGE
NO.1

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, D.C., 30 January 1987

**OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS INFORMATION AND SUPPLEMENTAL
MAINTENANCE AND REPAIR PARTS INSTRUCTIONS)**

**TRACTOR, FULL TRACKED, LOW SPEED,
HEAVY DRAWBAR PULL, (SIZE T-11)
WANGLE DOZER, WINCH AND ROPS
CATERPILLAR MODEL DSK-A--58 (CCE)
NSN 2410-00-574-7597
AND
WIBULLDOZER (SEMI-U-TILT), RIPPER
AND ROPS
CATERPILLAR MODEL D8K- 8S 8 (CCE)
NSN 2410-00-574-7598**

TM52410-234-14&P-2, 21 July 1981, is changed as follows:

1. The repair parts information contained in this manual has been replaced by TM5-2410-234-20P, Organizational Maintenance Repair Parts And Special Tools Lists, And TM5-2410-234-34P, Direct Support and General Support Maintenance Repair Parts And Special Tool Lists (Including Depot Maintenance Repair Parts And Special Tool Lists).

File this change sheet in front of the publication for reference purposes.

By Order of the Secretary of the Army:

Official:

R.L. DILWORTH
Brigadier General, United States Army
The Adjutant General

JOHN A. WICKHAM, JR
General United States Army
Chief of Staff

Distribution:

To be distributed in accordance with DA Form 12-25A-R, Operator, Organizational, Direct Support and General Support Maintenance requirements for Tractor, Full-tracked, Low Speed, with Angle Dozer Models D8K-8A-58, D8K-85-8.

This manual contains copyright material..

TECHNICAL MANUAL }
No. 5-2410-234-14&P-2 }

TM 5-2410-234-14&P-2
HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 21 JULY 1981

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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 2028-2 located in the back of this manual direct to: Commander, US Army Tank-Automotive Command, ATTN: DRSTA-MBS, Warren, MI 48090.

A reply will be furnished to you.

Chapters 1 through 6 and Appendixes A through P are contained in Volume 1

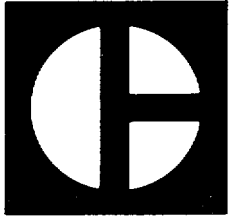
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Section	II.	D8K Tractor (D342 Engine)
Section	III.	D8k Tractor
	IV.	183B Hydraulic Control
	V.	Bulldozers (8A, 8S & 8U)
	VI.	58 & 59 Winch
	VII.	Ripper

This technical manual is an authentication of the manufacturers' commercial literature and does not conform with the format and content specified in AR310-3, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

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CHAPTER 7
REPAIR PARTS



CATERPILLAR
PARTS
BOOK SECTION I.

D342
VEHICULAR
EN'GINE

SERIAL
NUMBERS
17S1-UP

QUICK REFERENCE CHARTS

USE THESE CHARTS TO RECORD FREQUENTLY USED MAINTENANCE INFORMATION

MACHINE SERIAL NO.

EQUIPMENT NO.

FREQUENTLY REPLACED ITEMS

PART NO.	PART NAME

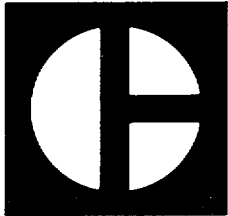
FLUIDS & LUBRICANTS

WHERE USED	TYPE	AMOUNT

OTHER MAINTENANCE ITEMS

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PARTS BOOK

D342
VEHICULAR ENGINE

SERIAL NUMBER
17S1 -UP

PUBLISHED SEPTEMBER 1974
CATERPILLAR TRACTOR CO.
PUBLICATIONS DIV.-SERVICE G.O.
PEORIA, ILL. USA
COMPILED BY DOROTHY MOSES

CENTRAL STRUCTURE

UPPER STRUCTURE

FRONT STRUCTURE

REAR STRUCTURE

LOWER STRUCTURE

LUBRICATION SYSTEM

COOLING SYSTEM

**INTAKE &
EXHAUST SYSTEM**

**FUEL SYSTEM
& GOVERNOR**

ELECTRICAL SYSTEM

**SERVICE EQUIPMENT
& SUPPLIES**

ORDERING Quality Caterpillar Replacement parts are available from Caterpillar dealers PARTS 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, always use the Parts Book covering the serial number of your machine Your order should specify the quantity, part number, part name and show the machine serial number for which the parts are needed. If in doubt about the part number, please provide your dealer with a complete description of the Serial Number Plate is Located needed item.

ENGINE MODEL	
SERIAL NUMBER	
GIVE ALL NUMBERS IN ALL COMMUNICATIONS	
ARRANGEMENT NUMBER	
MODIFICATION NUMBER	

HOW TO USE THE Caterpillar Parts Books PARTS BOOK include illustrations of the groups or assemblies which make up the machine. These illustrations show the standard components of the machine 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

- Δ Used to call attention to additional information shown elsewhere with in 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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REAR STRUCTURE		
1	4N9874	FLYWHEEL HOUSING GROUP 30
1	457417	FLYWHEEL GROUP 29
1	4N5703	SUPPORT GROUP 34
1	9H6248	POWER TAKE-OFF DRIVE GROUP 30
1	351660	POWER TAKE-OFF GROUP 31
LOWER STRUCTURE		
1	4N3291	OIL LEVEL GAUGE GROUP 35
1	4N9877	OIL PAN GROUP 36
LUBRICATION SYSTEM		
1	2P5103	OIL FILTER GROUP 46
1	2P2538	BREATHER AND FILLER GROUP..... 48
1	3H3093	OIL PUMP GROUP 37
1	6N2412	OIL PUMP DRIVE GROUP 39
1	6N336	OIL LINES GROUP 40

4N4444 BASIC ENGINE ARRANGEMENT-Part 1
FOR USE WITH D8K DIRECT DRIVE TRACTOR
NOTE: WHEN ORDERING PARTS GIVE ARRANGEMENT NUMBER AND
SERIAL NUMBER