

Technical Manual

John Deere 450E Crawler Bulldozer 455E Crawler Loader Repair

TM1330 (01OCT87)



Litho in U.S.A.

450E CRAWLER BULLDOZER AND 455E CRAWLER LOADER TECHNICAL MANUAL TM-1330 (Oct-87)

SECTION AND GROUP CONTENTS

SECTION I - GENERAL INFORMATION

- Group I - Introduction and Safety Information
- Group II - General Specifications
- Group III - Torque Specifications Chart
for Cap Screws and Hydraulic Fittings
- Group IV - Lubrication

SECTION 01 - TRACKS

- Group 0130 - Track Systems
 - Track Chain, Track Frame, Track Carrier
 - Roller, Front Idler, Track Roller and Track Adjuster

SECTION 02 - AXLES AND SUSPENSION SYSTEMS

- Group 0250 - Axle Shaft, Bearings, Reduction Gears
 - Final Drive, Steering Clutch, Brake Band, Steering Clutch Housing and Linkage

SECTION 03 - TRANSMISSION

- Group 0315 - Controls
- Group 0350 - Gears, Shafts, Bearings, and H-L-R Clutch
 - Clutch Oil Pump, H-L-R Clutches, Control Valve, Clutch Accumulator Valve, Clutch Oil Manifold, Shift Valve, Transmission Oil Filter, Shift Linkage, Neutral Start Switch and Transmission Oil Cooler
- Group 0360 - Transmission Hydraulics (See Group 0350)

SECTION 04 - ENGINE—Continued

- Group 0400 - Removal and Installation
- Group 0401 - Crankshaft and Main Bearings
- Group 0402 - Camshaft and Valve Actuating Means
- Group 0403 - Connecting Rods and Pistons
- Group 0404 - Cylinder Block (Liners)
- Group 0407 - Engine Oiling System
- Group 0409 - Cylinder Head and Valves
- Group 0410 - Exhaust Manifold
- Group 0413 - Fuel Injection System
- Group 0414 - Intake Manifold
- Group 0415 - Engine Balancer
- Group 0416 - Turbocharger
- Group 0417 - Water Pump
- Group 0418 - Thermostats, Housing and Piping
- Group 0419 - Engine Oil Cooler
- Group 0420 - Fuel Filter
- Group 0421 - Fuel Transfer Pump
- Group 0422 - Starting System
- Group 0433 - Flywheel, Housing and Fasteners

SECTION 05 - ENGINE AUXILIARY SYSTEMS

- Group 0505 - Cold Weather Starting Aids
- Group 0510 - Cooling Systems
- Group 0515 - Speed Controls
- Group 0560 - External Fuel Supply Systems

SECTION 7 - CLUTCH

- Group 0715 - Controls
- Group 0752 - Elements

Continued on next page

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SECTION AND GROUP CONTENTS—Continued

SECTION 09 - STEERING SYSTEMS

Group 0960 - Power Steering

SECTION 15 - EQUIPMENT ATTACHING

Group 1511 - Drawbar

SECTION 16 - ELECTRICAL SYSTEM

Group 1671 - Batteries, Support, and Cables

Group 1672 - Alternator

Group 1674 - Wiring Harness and Switches

Group 1676 - Instruments and Indicators

SECTION 17 - FRAME, CHASSIS, OR SUPPORTING STRUCTURE

Group 1740 - Frame Installation

Group 1746 - Frame Bottom Guards

Group 1749 - Chassis Weights

Sprocket, Rear, and Bottom Counterweights

SECTION 18 - OPERATOR'S STATION

Group 1810 - Operator Enclosure

ROPS, Cab, Windshield Wiper Motor,

Operator Seat, and Backhoe Seat

SECTION 19 - SHEET METAL

Group 1910 - Hood or Engine Enclosure

Grille and Grille Housing, Cowl and Cowl Support

SECTION 30 - WINCH

Group 3015 - Controls Linkage

Group 3050 - Winch Drive and Clutches

Group 3060 - Winch Hydraulic System

Winch Control Valve and Hydraulic Pump

SECTION 31 - LOADER

Group 3102 - Buckets

Group 3103 - Forks

Group 3115 - Controls Linkage

Group 3140 - Frames

Group 3160 - Hydraulic System

Loader Cylinders, Hydraulic Pump and Loader Control Valve

SECTION 32 - BULLDOZER

Group 3201 - Blades

Group 3215 - Controls Linkage

Group 3240 - Frames

Group 3260 - Hydraulic System

Hydraulic Return Filter, Reservoir, Pump, Pump Drive, Dozer Control Valve, Auxiliary Valve, Selector Valve, Flow Divider and Bulldozer Cylinders

SECTION 33A - BACKHOE - 9300

Group 3300A - Removal and Installation

Group 3302A - Bucket

Group 3315A - Controls Linkage

Group 3340A - Frames

Group 3360A - Hydraulic System

Control Valve, lift Check, Anti-Cavitation Valve, Relief Valve, Manifold Block and Backhoe Cylinders

SECTION 33B - BACKHOE - 9550

Group 3300B - Removal and Installation

Group 3302B - Bucket

Group 3315B - Controls Linkage

Group 3340B - Frames

Group 3360B - Hydraulic System

Control Valve, Lift Check, Anti-cavitation Valve, Relief Valve, Manifold Block and Backhoe Cylinders

SECTION 37 - LOG ARCH

Group 3740 - Arch Frames

SECTION 40 - WINCH DRIVE

Group 4051 - Gears, Shafts and Bearings

SECTION 42 - GROUND CONDITIONING TOOL

Group 4201 - Teeth and Shanks

Group 4240 - Frame

Group 4260 - Hydraulic System

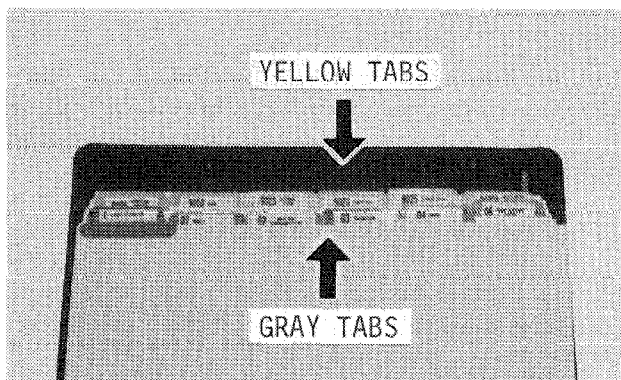
SECTION 99 - DEALER FABRICATED TOOLS

USING TABS

To fully utilize this technical manual, you must understand how it is organized.

Only two tab colors are used—gray and yellow. Each color represents a different type of information.

Spend a minute reading this now and save many minutes of searching later.



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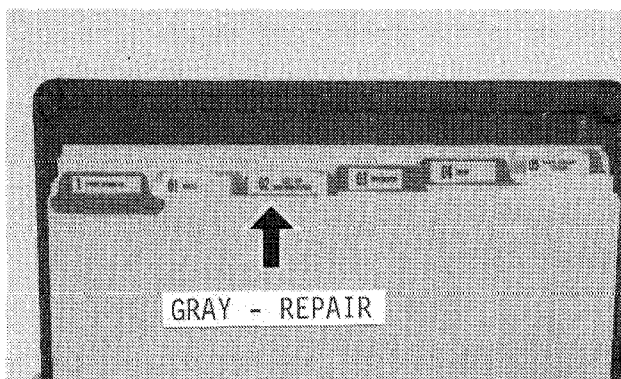
GRAY TAB SECTIONS

The gray tab sections are repair sections that tell how to repair the components of the various systems.

Repair of a component includes:

- Removal from machine (when necessary)
- Disassembly
- Inspection
- Replacement of parts
- Assembly
- Adjustment
- Installation on machine (when necessary)

The numbers used for the repair (gray tab) sections are part of an overall service publication numbering system. The numbers identify the same sections in the parts catalog, flat rate manual, service information bulletins, and service training courses.



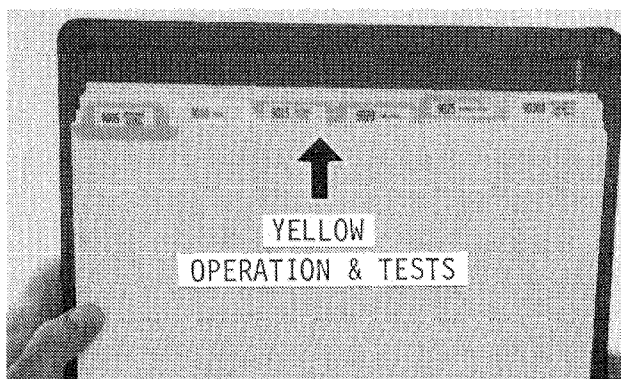
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YELLOW TAB SECTIONS

Each yellow tab section contains information on:

Groups

- | | |
|----|---------------------------|
| 05 | Theory of Operation |
| 10 | System Operational Checks |
| 15 | Diagnostic Information |
| 20 | Adjustments |
| 25 | Tests |

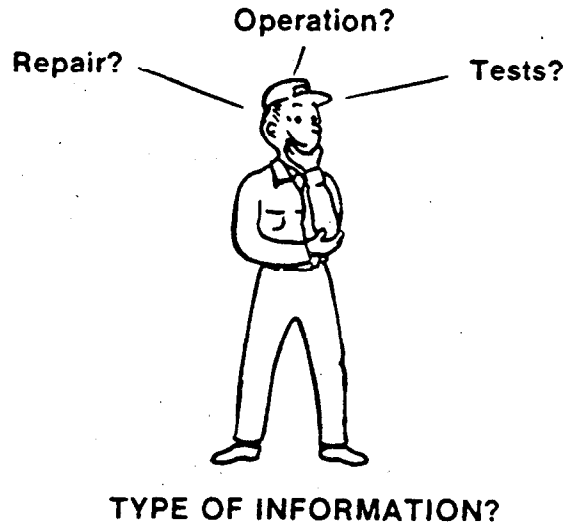


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THREE-STEP PROCEDURE

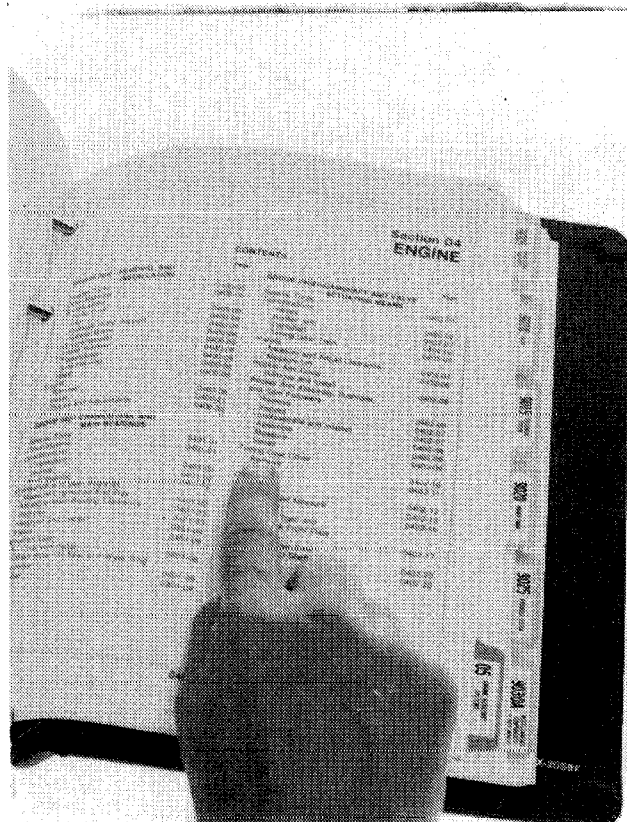
Use the following three-step procedure to locate the desired information.

1. Determine the type of information you need. Is it repair, operation, or tests?
2. Go to the appropriate section tab:
Gray for Repair
Yellow for Operation or Tests



1TA;T5940AT T82;SKPD HI 120984

3. Use the table of contents on the first page of the section to locate the information.



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SAFETY AND YOU

This safety-alert symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

When you see this symbol on your machine or in your manual, be alert to the possibility of personal injury. Follow the instructions in the safety message.



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AVOID FIRE HAZARDS

Be prepared if an accident or fire should occur. Know where the first aid kit and the fire extinguishers are located — know how to use them.

Do not smoke while refueling or handling highly flammable material.

Shut off the engine when refueling.

Use care in refueling if the engine is hot.

Do not use open pans of gasoline or diesel fuel for cleaning parts. Use good commercial, nonflammable solvents.

Provide adequate ventilation when charging batteries.

Do not check battery charge by placing metal objects across the posts.

Do not allow sparks or open flame near batteries.

Do not smoke near battery.

Never check fuel, battery electrolyte, or coolant levels with an open flame.

Never use an open flame to look for leaks anywhere on the equipment.

Never use an open flame as light anywhere on or around the equipment.

When preparing engine for storage, remember that inhibitor is volatile and therefore dangerous. Seal and tape openings after adding the inhibitor. Keep container tightly closed when not in use.

Inspect electrical wiring for worn or frayed insulation. Install new wiring if wires are damaged.

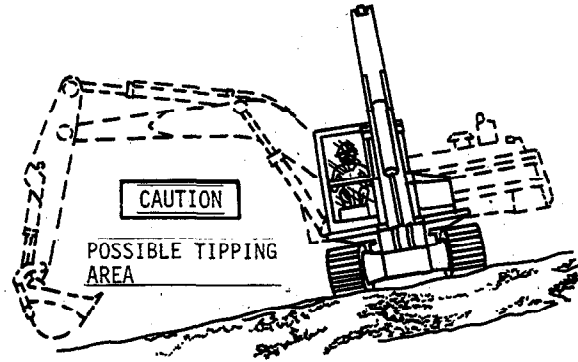


AVOID TIPPING

When you operate on a slope, do not swing the bucket down-hill if possible.

When you swing heavy loads to the side of the tracks, avoid tipping the excavator.

When the bucket is loaded, be careful when you swing or lift the boom.



44A/T82326 T82/EXSA G 030282

WEAR PROTECTIVE CLOTHING

Wear fairly tight clothing . . . and safety equipment.



44A/T85056 T82/EXSA B 060684

PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noise.



88A/X7662 T82/BHSA E 070684

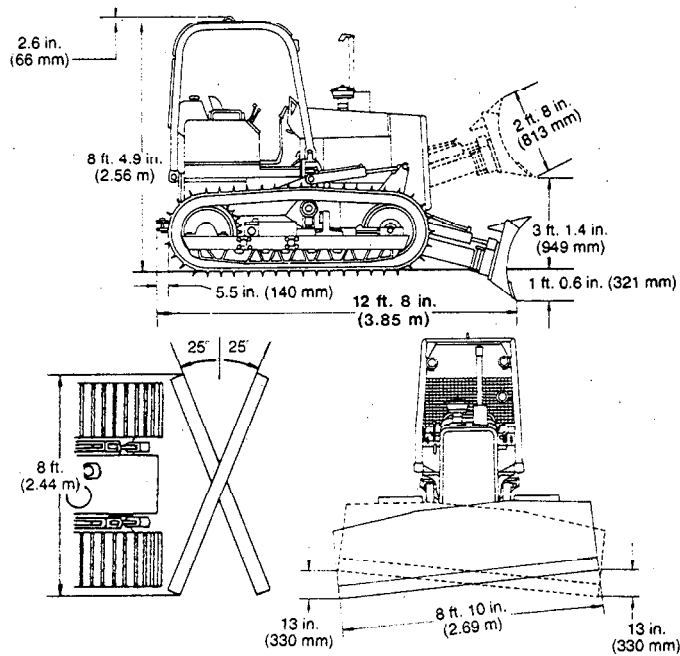
AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.

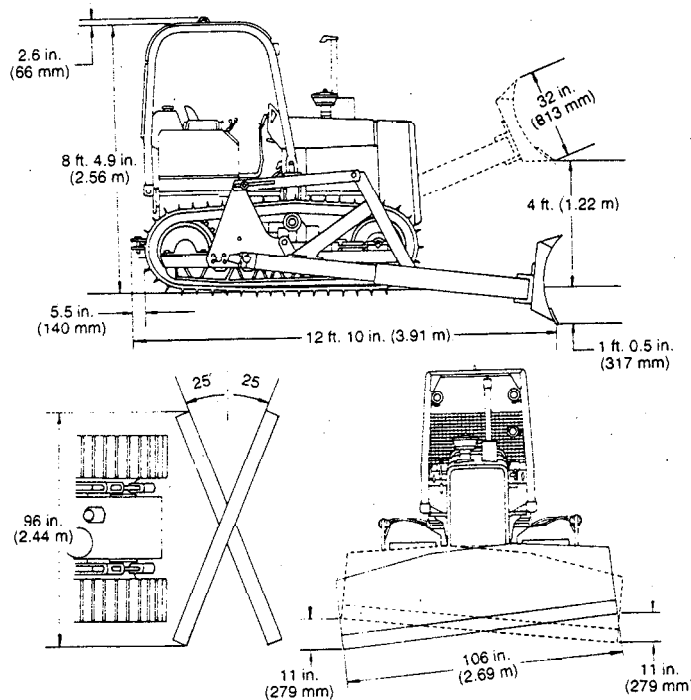


44A/X9811 T82/BHSA F 140984



450E Crawler Tractor With 6405 Blade

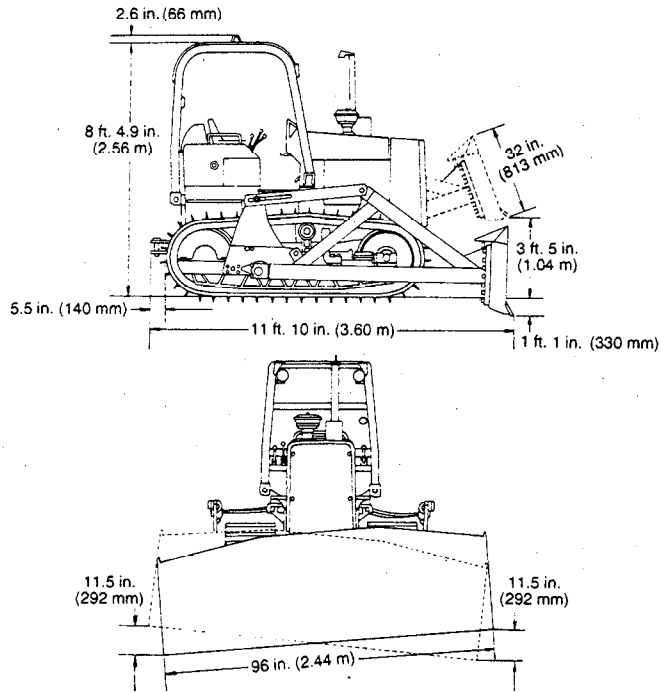
000;T6020AN T82;CRSP S 030185



450E Crawler Tractor With 6410 Blade

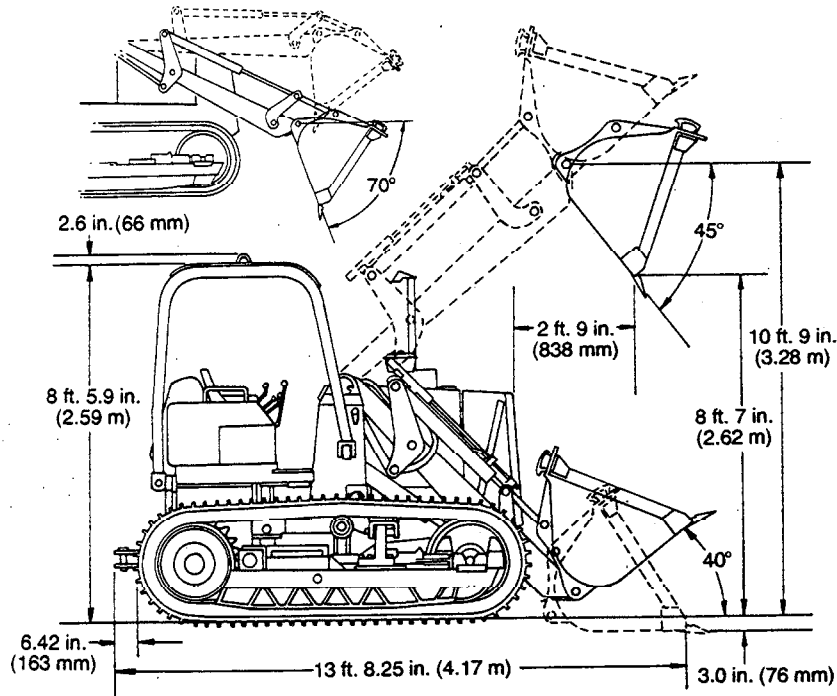
000;T6020AM T82;CRSP T 030185

Specifications



450E Crawler Tractor With 6415 Blade

000;T6020AP T82;CRSP U 030185



455E Crawler Loader

88A;T92254 T82;CRSP X 111284

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