

850 / 950 FELLER BUNCHER

S/N 997440 – 997470

S/N 10BA1002 – 10BA1271

TECHNICAL MANUAL 850 / 950 FELLER BUNCHER TMF292296

CALIFORNIA Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.



WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Worldwide Construction and Forestry Division

English

1. Introduction and Specifications

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1.1 Introduction

The Workshop Manual is intended to provide technical information, component specifications, troubleshooting and removal, disassembly and reassembly procedures for most of the major components of the machine.

Certain components such as the engine, felling head, and fire suppression system are covered in individual manuals provided by the respective manufacturers. For specifications, parts listings and servicing procedures these manuals should be obtained to supplement the Workshop Manual.

When practical the Workshop Manual lists likely causes of malfunctions, offers test procedures to verify causes and then illustrates the steps for the adjustment or repair procedure(s).

Since it is never possible to anticipate all of the possible failure or malfunction scenarios, a concerted effort has been made to explain the function of, or method of operation, of many complex components. This information can be used to predict other causes of machine malfunction.

Troubleshooting must always be a multi step process. Use the following steps:

1. Know the operation of all machine systems.
2. Ask the operator about symptoms and when they occur.
3. Operate the machine yourself if practical.
4. List all possible causes.
5. Inspect the machine for obvious causes.
6. Eliminate the simple ones by checking oil, changing filters, etc.
7. Carry out diagnostic procedures like pressure, leakage and slippage testing to pinpoint the cause.

1.1 Introduction

When troubleshooting there is no substitute for knowledge of the machine systems. This Workshop Manual contains both hydraulic and electrical system schematics. They should be used to gain a working knowledge of flow paths.

Both sets of schematics are supported by component location charts or illustrations to assist in locating electrical and hydraulic components on the machine.

Specifications (Section 1.2), provide performance and mode of operation information that can be very useful in troubleshooting.

Disassembly and reassembly procedures are given for many major components. When possible, stacking order, clearance and torques are given. If a manufacturers' workshop manual is available, it should be given priority.

Reference to special equipment for testing and repair is limited, as most repair shops or local machine shops are well equipped to fabricate on an as-needed basis to reduce downtime.

1.2 Specifications

ENGINE: 850

Model	Cummins 6CTA8.3
No. of cylinders	6
Displacement	504 cu. in. (8.3 litres)
Bore/Stroke	4.49 x 5.32 in. (114 x 135 mm)
Rated Power	230 hp (174 kW) 2000 rpm
Rated Maximum Torque	720 lb ft (976 Nm) 1500 rpm
High Idle	2160 +/- 50 rpm
Low Idle	900 +/- 50 rpm

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SWING DRIVE GEARBOX (2): 850

Type	Double Reduction Planetary
Ratio	31.0:1
Pinion	12 Tooth
Brake	Integral with swing gear
Brake Type	Wet - Spring Applied Hydraulic Released (SAHR)
Brake Release Pressure	507 - 550 psi (3.5 - 3.8 MPa)

SWING DRIVE GEARBOX (2): 950

Type	Triple Reduction Planetary
Ratio	126.9:1
Pinion	12 Tooth
Brake	Integral with swing gear
Brake	Type Wet - Spring Applied Hydraulic Released (SAHR)
Brake Release Pressure	507 - 550 psi (3.5 - 3.8 MPa)

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