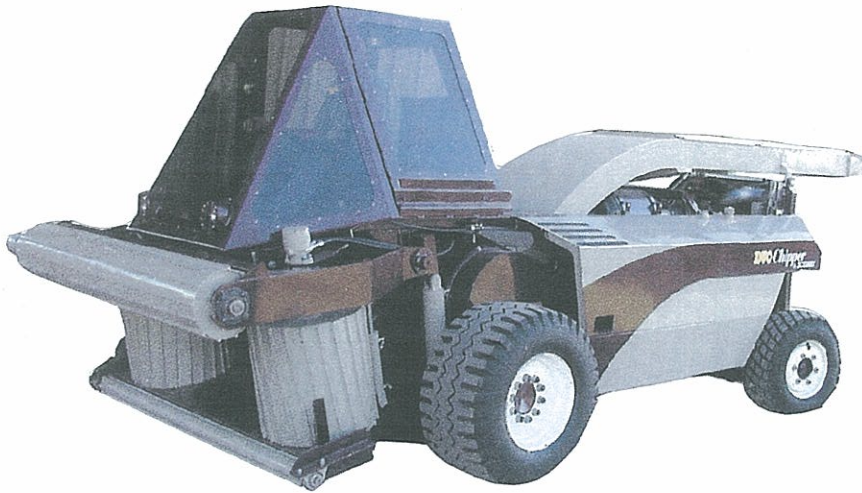


JACKRABBIT
OWNER'S – OPERATOR'S MANUAL

DUOCHIPPER



Chipper Serial numbers: #8 through #17

JACKRABBIT, 471 Industrial Ave. Ripon CA, 95366

Phone (209) 599-6118 Fax (209) 599-6119 E-Mail: sales@jackrabbit.bz

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1. MACHINE IDENTIFICATION

Spare parts and service help is easier to obtain when you have serial numbers and model types of important components. The serial number of your JackRabbit *DUOChipper* can be found on the cover of this manual. Please refer to this serial number when requesting service information or when ordering parts. Actual part numbers for parts used on this machine may be found in the parts section of this manual.

2. GENERAL MANUAL INFORMATION**PURPOSE OF THIS MANUAL**

The purpose for this manual is to familiarize you with the installation, operation, safety and maintenance of your JackRabbit *DUOChipper*. Understanding how your Chipper operates and how to correctly care for it will insure that you get maximum performance. Please read this manual before operating your JackRabbit *DUOChipper*.

WHO SHOULD READ THIS MANUAL

This manual is intended for anyone who operates, or maintains a JackRabbit *DUOChipper*. The information in this manual is important. Failure to read and understand the information contained in this manual could result in damage to the chipper, personal injury or death. It is good practice to re-read sections pertaining to operation, maintenance and safety on a regular basis to stay as completely informed about the chipper as possible.

HOW TO CONTACT JACKRABBIT

JackRabbit

171 Industrial Avenue

Ripon CA 95366

Phone: (209) 599-6118

Fax: (209) 599-6119

Email: sales@jackrabbit.bz or info@jackrabbit.bz

3. **DUOCHIPPER SPECIFICATIONS**

Engine:	QSC 8.3 300 6 Cylinder Diesel
Gross Weight:	19,800 lbs
Driver Environment:	Enclosed cab air-conditioned
Overall Dimensions:	
Length:	18 ft 2 inches without chute 23 ft 6 inches with chute
Width:	8 ft 9 inches
Height:	8 ft 2 inches
Wheel Base:	10 ft 8 inches
Ground Drive:	Hydrostatic – foot controlled
Axles:	Front – fixed drive Rear – steerable
Tire Size:	Front 40X19 – 19.5 NHS – 14 ply rating Rear 12 – 16.5 – 8 ply rating
Fuel:	Diesel – 96 US gallons capacity
Hydraulic Oil:	ISO – 68 110 US gallons capacity

All specifications subject to change without notice. For further information call JackRabbit at (209) 599-6118.

4. MAINTENANCE MATERIAL SPECIFICATIONS

Use only JackRabbit parts for warranty protection and maximum performance.

Engine Oil: 15W – 40 Multiple viscosity motor oil capacity 6 gallon

Engine Oil Filter: JackRabbit # B040107 Fleetguard # LF9009

Fuel Filters: JackRabbit # B040106 Fleetguard # FS1022
JackRabbit # B040108 Fleetguard # WF2074 (water filter)

Hydraulic Oil: ISO – 68 capacity 110 US gallons

Hydraulic Filters: JackRabbit # B110015A HYDAC # 0180 – MA – 020 BN
3 required

JackRabbit # 25338 Schroder N 10

Lubricant (Grease): For Nicholson SKD Chipper bearings use Mobilux EP-2
(extreme pressure) or Equal.

DO NOT USE HIGH TEMPERATURE GREASE

All other bearings including the clutch throw-out bearing
use No. 2 Lithium base grease

Gear Box Oil: 90 degree Drive: Schaeffer’s 80-90 Synthetic Blend #267

Do not use EP 90W

Funk Drive Gear Box Oil: EP 90W

Air Filters Engine:

Replacement Outer JackRabbit # B040803 Donaldson P777868

Replacement Inner JackRabbit # B040804 Donaldson P777869

Air Filter Cab: JackRabbit # 27004 Donaldson # P181052

Antifreeze: Use 50% antifreeze 50% water 5 gal engine, 1 gal air cooler

Fan Belt: JackRabbit # B040109 Cummins # 391-18074/20-3849

Air Conditioning Belt: JackRabbit # B040811A XL9455 B&Z

Rev. 4/5/05

Starter: JackRabbit #B040110 Cummins # 3939302 (46319762)

Alternator: JackRabbit # B040111 Cummins #393527 (46319760)

Air Conditioning Freon: R134A

Specifications

General Specifications

Horsepower	320 @ 2000 RPM
QSC8.3 Engine speed @ Maximum Power Output: Standard Rating (rpm)	2000
Bore and Stroke	114 mm [4.49 in] x 144.5 mm [5.69 in]
Displacement	8.9 liters [540 C.I.D.]
Compression Ratio	16.6:1
Firing Order	1-5-3-6-2-4
QSC8.3 Approximate Engine Weight (with standard accessories)	706 kg [1555 lb]
Crankshaft Rotation (viewed from the front of the engine)	Clockwise
Valve Clearance:	
Intake	0.3048 mm [0.012 in]
Exhaust	0.5588 mm [0.022 in]

NOTE: The QSC8.3 engine features a no-adjust overhead. The QSC8.3 valve train is designed such that adjustment of the valve lash is **not** required for normal service during the first 241,500 km [150,000 mi]. The valve train operates acceptably within the limits of 0.152 to 0.559 mm [0.006 to 0.022 in] intake valve lash and 0.381 to 0.813 mm [0.015 to 0.032 in] exhaust valve lash.

Fuel System

Engine Idle Speed	600 to 1200 rpm
Maximum Lift Pump Inlet Restriction at Rated	102 mm Hg [4 in Hg]
Maximum Fuel Filter Outlet Restriction at Rated	254 mm Hg [10 in Hg]
Minimum Fuel Filter Inlet Pressure During Cranking	508 mm Hg [20 in Hg]
Maximum Fuel Drain Line Pressure	254 mm Hg [10 in Hg]
Maximum Fuel Inlet Temperature	61°C [140°F]
Minimum Engine Cranking Speed	150 rpm

Lubricating Oil System

Oil Pressure:	
At Low Idle (minimum allowable)	69 kPa [10 psi]
At Rated Speed (minimum allowable)	207 kPa [30 psi]
Regulated Pressure	517 kPa [75 psi]
Oil Capacity of Standard Engine:	
Standard Oil Pan	
Pan Only	18.9 liters [20 qt]
Total System Capacity	19.9 liters [21 qt]
Deep Sump Oil Pan	
Pan Only	19.9 liters [21 qt]
Oil Pan Low to High:	
Standard Oil Pan	15.1 to 18.9 liters [16 to 20 qt]
Deep Sump Oil Pan	16.1 to 19.9 liters [17 to 21 qt]

NOTE: Some applications have a slightly different oil pan capacity. Contact the local Cummins Distributor if there are any questions.

TO OUR CUSTOMERS:

Thank you for choosing JackRabbit. We stand behind our products and are very proud of the equipment we design and manufacture. Preventive maintenance is the easiest and least expensive type of maintenance. Please take the time to review this Owner's Operator's Manual and the engine Operation and Maintenance Manual. They can save you time and expense.

WARRANTY

JACKRABBIT warrants each new piece of equipment and parts manufactured by it to be free from defects in material and workmanship under normal use and service. The obligation of JACKRABBIT shall be limited to replacing any part which shall, within 1 year (1 season) after delivery to the original purchaser, be returned to JACKRABBIT with transportation charges prepaid and which an examination by JACKRABBIT discloses is defective. This Warranty does not obligate JACKRABBIT to bear the cost of labor, travel time or hauling in connection with the replacement or repair of defective parts and in no event will be liable for consequential damages including but not limited to loss of crop, rental or substitute equipment or other commercial loss.

No warranties or representations made by persons other than representatives of JACKRABBIT expressly authorized in writing to do so shall be valid and binding upon JACKRABBIT. No dealer shall be authorized to bind JACKRABBIT in this respect.

JACKRABBIT makes no warranty with respect to component parts not manufactured by JACKRABBIT, including, but not limited to, engines and power trains. Engines and power trains may be warranted by the respective manufacturer thereof. Cummins warrants engine for two years (see Cummins Engine Manual for details). This Warranty shall not apply to any equipment which has been altered in any way outside of manufacturer's factory, or which has been subject to misuse, neglect or accident.

This Warranty is expressly in lieu of all other warranties and representations, expressed, implied, or statutory, including warranties of merchantability and fitness for a particular use, and all other liabilities or obligations on the part of JACKRABBIT, foreseeable or not.

USER'S RESPONSIBILITY

It is the responsibility of the user to read the Operator's Manual and understand the safe and correct operating procedures as pertains to the operation of the product and to lubricate and maintain the product according to the maintenance schedule in the Operator's Manual.

WARRANTY SERVICE

Warranty services may be obtained through an authorized dealer or JackRabbit service facility. Write or call JackRabbit , 471 Industrial Ave, Ripon, CA 95366, telephone (209) 599-6118
Fax (209) 599-6119