

Cutters Edge MULTI-CUT Fire Rescue Saw Specifications – Model # CE-2165-RS

ENGINE

TYPE: Single-cylinder 2-cycle, with loop scavenging
DISPLACEMENT: 4.0 cu.in. (65.1cc)
BORE: 1.89 in. (48mm)
STROKE: 1.4 in (36mm)
COMPRESSION RATIO: 9.4:1
BEARINGS: Heavy-duty deep-groove ball bearings on crankshaft, needle cage bearings on connecting rod, piston pin and clutch
CYLINDER/PISTON: Open ported single ring design
CYLINDER MATERIAL: Nikasil
MAX ENGINE SPEED: No load...12,500 RPM
HORSEPOWER: 5.06hp (DIN)

IGNITION SYSTEM

TYPE: Electronic, one piece modular, CD
BRAND: FHP
SPARK PLUG: Champion CJ7Y or equivalent
GAP: 0.020 in. (0.5mm)

STARTING SYSTEM

ONE STEP STARTING SYSTEM WITH COMPRESSION RELEASE
Comprised of...
Momentary contact switch
Combined choke/throttle lock with Throttle safety guard

AIR FILTRATION

SYSTEM: "RAM-AIR INDUCTION" - Metered Stack
TYPE: 4-stage external mount with oil tack barrier
SURFACE AREA: 211.4 sq.in. effective filtration surface area
MICRON RATING: <1 Micron

FUEL & ENGINE LUBRICATION

GASOLINE OCTANE RATING: Use 87 octane or higher
FUEL MIX RATIO: With Cutters Edge Synthetic Oil.....100:1
If petroleum base 2-cycle oil used: ...50:1
FUEL TANK CAPACITY: 26.8 fl.oz. (0.77 liters)

CARBURETOR ISOLATION

Designed to eliminate Vapor-lock and Vibration
TYPE: Air gap isolation and Bakeolite insulation
Pressurized carburetor compartment keeps out dirt

DRIVE SYSTEM

TYPE: Inboard, 3-shoe centrifugal clutch
STYLE: Rim & Drum System
Radially ported to keep rim free of tar & debris buildup... free floating to keep chain in perfect alignment with bar groove
SIZE: .404 x 7 TOOTH
CHAIN SPEED: No load chain speed 98.5 FPS (feet per second)

GUIDE BAR

TYPE: Solid one piece construction
11 Tooth Sprocketnose
20" and 16" slotted for Guard/Depth Gauge

MATERIAL

STEEL ALLOY: .234" Thick Bar Body
HIGH SPEED STEEL: Sealed Sprocketnose
CUTTING LENGTHS: 20" 16" and 12"
SIZE: 404 Pitch .063 Gauge

CUTTING CHAIN

STYLE: CUTTERS EDGE BULLET® CHAIN
TYPE: Carbide Tipped with "Locking Key" and Solid Bullet Raker Gauge
DESIGN: Patented Fire Rescue Design...U.S. Patent No. 5,056,395
SIZE: .404"Pitch x .063" Gauge
with .068 "Drive Links (coined to .063")
Heavy Duty Tie Straps, Tempered Rivets and .068" Hubs
CERTIFICATION: Meets or exceeds ANSI and OSHA standards
Certified according to ISO 9518 Standards as "Extremely Low Kickback"

CUTTING CHAIN LUBRICATION SYSTEM

TYPE: Fully automatic, adjustable
DRIVE SYSTEM: Geared to Centrifugal Clutch
LUBRICANT: Cutters Edge "High Tack" Bar & Chain Oil or High Quality Bar & Chain Oil
OIL TANK CAPACITY: 14.24 fl.oz. (0.42 liters)

HANDLES

TYPE: Front/Top...Full Wrap
(For ease of use with gloves, from either side of saw)
Rubber coated for sure grip
Rear...Flared base for hand guard. Full isolation anti-vibration

VIBRATION LEVELS

*FRONT HANDLE m/s2: Idling 3.4
Racing 2.2
*REAR HANDLE m/s2: Idling 1.8
Racing 3.8
(*see Note 2)

SILENCING

MUFFLER: Oversize, top ported, low restriction with fire screen
**NOISE LEVEL: 104dB(A) at maximum output
(*see Note1)

GUARD/DEFLECTOR

TYPE: Aluminum front mount to cover muffler and control air-flow for delivery of cleaner, cooler air to cylinder heat exchangers...(Keeps engine running cooler and reduces maintenance)

CHAIN BRAKE

TYPE: Inertia Activated
STYLE: Free-Swinging Pendulum
BRAKING TIME: <0.20 second

GUARD/DEPTH GAUGE (Optional)

(No tools needed for installation, adjustments or removal)
FUNCTION: Covers all the cutting chain, allows saw operator to set depth of cut to avoid cutting structural members
MATERIAL: Anodized aluminum
TYPE: D6 for 16" saw... D8 for 20" saw... 3 point mount, positive lock with depth of cut scale
DEPTH OF CUT: D6 = 6" D8 = 8"

WEIGHTS

POWERHEAD ONLY: 15.25 lbs (Dry Weight)
CE-2171RS-12": 18 lbs
CE-2171RS-16": 18.5 lbs
CE-2171RS-20": 19.3 lbs
CE-2171RS/D6: 20.6 lbs
CE-2171RS/D8: 21.65 lbs

STANDARD ACCESSORIES

ACCESSORIES INCLUDED WITH ALL FIRE RESCUE SAWS -

"Srench" holder and "Srench" tool, complete tool kit including grease gun and packet of grease, complete manuals, filter oil, Cutters Edge 2-cycle oil mix, Cutters Edge bar & chain oil, bar scabbard (saws without D6 & D8 only)

**Note 1: Equivalent noise level is, according to ISO 7182 and ISO 9207, calculated as the time-weighted energy total for noise levels under various working conditions with the following time distribution: 1/3 idle, 1/3 full load, 1/3 full speed.

**Note 2: Equivalent vibration level is, according to ISO 7505, calculated as the time-weighted energy total for vibration levels under various working conditions with the following time distribution: idle, full speed.

Cutters Edge®
FIRE RESCUE SAWS

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