

CE-2186-RS MULTI-CUT Fire Rescue Saw Specifications

ENGINE

TYPE:	Single-cylinder 2-cycle, with loop scavenging
DISPLACEMENT:	5.2 cu.in. (84.7cc)
BORE:	2.1 in. (54mm)
STROKE:	1.5 in. (37mm)
COMPRESSION RATIO:	10.3:1 ($\pm .03$)
BEARINGS:	Heavy-duty deep-groove ball bearings on crankshaft, needle cage bearings on connecting rod, piston pin and clutch
CYLINDER/PISTON:	Closed ported, dual rings with four transfer ports
CYLINDER MATERIAL:	Chrome-Bore
MAX ENGINE SPEED:	No load... 13,000 RPM
HORSEPOWER:	6.9 hp (5.17kW)

IGNITION SYSTEM

TYPE:	Electronic, one piece modular, CD
BRAND:	SEM
SPARK PLUG:	Champion RCJ7Y
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:	30.4 fl.oz. (0.90 liters)

CARBURETOR ISOLATION

TYPE:	Designed to eliminate Vapor-lock and Vibration Air gap isolation and Bakeolite insulation Pressurized carburetor compartment keeps out dirt
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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 102.5 FPS (feet per second)

GUIDE BAR

TYPE:	Solid one piece construction 11 Tooth Sprocketnose 16", 20" and 24" slotted for Guard/Depth Gauge
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MATERIAL

STEEL ALLOY:	.196" Thick Bar Body
HIGH SPEED STEEL:	Sealed Sprocketnose
CUTTING LENGTHS:	12", 16", 20" and 24"
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"
OPTIONAL CHAIN DESIGNS:	DUAL RAKER, B3E (Single Raker)

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:	17.6 fl.oz. (0.50 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
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VIBRATION LEVELS

*FRONT HANDLE m/s2:	5.8
*REAR HANDLE m/s2:	7.5
(*see Note 2)	

SILENCING

MUFFLER:	Oversize, top ported, low restriction with fire screen
NOISE LEVEL:	102dB(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)
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CHAIN BRAKE

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

GUARD/DEPTH GAUGE (Optional)

FUNCTION:	(No tools needed for installation, adjustments or removal) Covers all the cutting chain, allows saw operator to set depth of cut to avoid cutting structural members
MATERIAL:	Aluminum
TYPE:	D6 for 16" saw...D8 for 20" saw...D10 for 24" saw 3 point mount, positive lock with depth of cut scale D6 = 6" D8 = 8" D10 = 10"
DEPTH OF CUT:	

WEIGHTS

	Dry Weight	Wet Weight (with Gas and Oil)
POWERHEAD ONLY:	17.4 lbs	19.7 lbs
CE-2186RS-12":	19.9 lbs	22.5 lbs
CE-2186RS-16"	20.55 lbs	22.85 lbs
CE-2186RS-20"	21.25 lbs	23.55 lbs
CE-2186RS-24"	21.84 lbs	24.15 lbs
CE-2186RS-D6	22.75 lbs	24.05 lbs
CE-2186RS-D8	23.85 lbs	26.20 lbs
CE-2186RS-D10	24.80 lbs	27.10 lbs

STANDARD ACCESSORIES

ACCESSORIES INCLUDED WITH ALL FIRE RESCUE SAWS -

"Scrench" holder and "Scrench" 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.

**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.