Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper



Model Number: PA-CH640-3075

Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper

Manufacturer: Kohler

Kohler 20Hp Command V-Twin Engine Electric Start CH20S PA-CH640-3075
Moridge Mfg PA-CH640S
CH640-3075 20 HP Command Twin Cylinder

Supersedes CH20S-64510 20 HP and CH18-62510
Superseded by PA-CH640-3149

CH640 MORIDGE MFG

Kohler 20 HP Command Twin Horizontal OHV

Grasshopper (Moridge)
Crankshaft: (24014351-S) 1.125" x 3.385"
Drilled & Tapped 3/8-24 UNF
.25" (6 mm) Full Key way
Front Drive Adapter: (2402909-S)
12 Volt Electric Start: (2509811-S) Solenoid Shift Style
Alternator: (237878-S) 15/20 Amp Alternator
Oil Sentry (no connected)

Dual Element Air Cleaner: (4708303-S)
Cylinder Type: Cast Iron Sleeves
Cooling System: Air Cooled

Lubrication Type: Pressurized
Oil Sensor: Yes
Oil Filter: (1205001-S)
Muffler: (2406806-S) Canister, Starter Outlet

Fuel Pump: (2439316-S)
Throttle Controls: Remote

Steambrite Supply

Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper

Engine Features:

Standard Features: SMART-CHOKE carburetor * Electronic ignition system * Solenoid shift starter * Cast iron cylinder liners * Hydraulic valve lifters * Round Air Filter with Snorkel To Starter Side Muffler * Fixed Grass Screen Guard * Anti-Icing Features with Starter Side Exhaust System * Full-pressure lubrication * Spin-on. full-flow oil filter * Overhead valve (OHV) design * In-line fuel filter * Engineered material blower housing * Mechanical fuel pump * CARB & EPA emission-certified * Dual oil drains * Easy-access oil fill/dipstick * Two-year limited warranty

Engine Applications:

Moridge / Grasshopper

Sales Notes:

Popular on 718K, 720K Moridge Grasshopper

CH20S-62510, CH20-62510, PA-62510, 62510, 64510, PA-CH640-3149 PA-64510, PS-62510, PS-64510

• Shaft 1-1/2" (40.935 mm)_PTO 3/16" (4.0 mm) with standard size front shaft (dual shaft engine)

Durable, Long Life Design.
Hydraulic valve lifters are oil pressurized, ensuring that push rods stay in constant contact with the rocker arms. Requiring no adjustment, the valve train is virtually maintenance-free. In addition, full-pressure lubrication delivers continuous lube to

Steambrite Supply

Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper

critical engine components, even at 25-degree angle of operation and optional oil cooler regulates the oil temperature extending oil-change intervals. Large capacity, in-line fuel filter provides extra protection against dirt particles that can clog fuel lines.
High Power Performance.
Overhead valve technology provides greater volumetric efficiency and a higher compression ratio. This produces more power, improved fuel economy and cooling and reduces oil consumption. In addition, there is virtually no carbon buildup, reducing overall maintenance costs. The variable speed, mechanical governor promises smooth performance, regardless of application or fluctuating demands for power.

Reliable Starting.
Kohler Command PRO® electronic ignition system generates a stronger spark at low cranking speed and Automatic Compression Release (ACR) allows compression to escape during cranking to reduce pull force.

User-Friendly Maintenance.

High Power Performance.

Reliability and Long Life Design.

Quiet, Smooth Operation.

Easy Dependable Starts.

Full pressure lubrication. 20 Amp alternator. Pulse fuel pump. Satellite exhaust valves with seat inserts and rotators.. Two limited warranty. Remote Controls

Uses crankshaft

Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper

Overhead Valve Design OHV
• Hydraulic Valve Lifters
• Cast-Iron Cylinder Liners
• Electronic Ignition
• Large Capacity Dual Element Air Cleaner
• High Efficiency Grass Screen and Fan
• Closed Breather System
• Stellite® Exhaust Valves
• Full Pressure Lubrication
• Large Capacity In-Line Fuel Filter
• Easy Access Valve Cover Oil Fill-Yellow
• Oil Level Dipstick-Yellow
• Large Capacity Oil Filter, Dual Oil Drain
• Oil Sentry™ (Switch Installed and Wired but Unconnected)
• Variable Speed Governor
• Fuel Shutdown Solenoid, Smart-Choke™ Carburetor
• Mechanical Fuel Pump
• High Performance Spark Plugs
• 12 Volt Solenoid Shift Starter
• 20 Amp Alternator, Regulated
• Crankshaft-

• PTO Face-5.625" (143 mm) Diameter, (4 Holes) 3/8-16 x 0.67" (17 mm) Deep, 7.75" (197 mm) Diameter, (4 Holes) 7/16-14 x 0.83" (21 mm) Deep
Color Black with Cast Aluminum
7" (178mm) Diameter Pilot
Exact Specifications Subject To Change Without Notice. Factory can make changes at any time. Photos are only a representation of the the engine might look like. Please check with us if you need a specification verified as current.

Standard Features Plus:
• 3/16" Evaporative Emissions Connection

Engine Type:
4-cycle, gasoline, OHV, cast iron cylinder liners, aluminum block

Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper

Model

Command PRO CH640

Max Power @3600 RPM hp (kW) 1
20 (14.9)

Displacement cu in (cc)
39.1 (624)

Bore in (mm)
3.0 (77)

Stroke in (mm)
2.6 (67)

Max Torque lbs. ft (Nm)1
32.7 (44.3)

Compression Ratio
8.5:1

Dry Weight lbs (kg)
90 (41)

Oil Capacity U.S. quarts (L)
2 (1.9)

Lubrication
Full pressure w/full-flow filter

Dimensions L x W x H in
14 x 17.7 x 19.0

Steambrite Supply

Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper

Backpressure Limit 2
50

J1995 Power hp (kW) 3
20.6 (15.4)

J1995 Torque lbs ft (Nm) 3
31.6 (42.8)

* Length is grass screen to PTO mounting face. Width is spark plug to spark plug. Height is top of air cleaner to mounting feet.
1 Max Power (hp) and Max Torque (lbs ft) specifications for Kohler general purpose engines are rated pursuant to Society of Automotive Engineers (SAE) J1940 based on gross output testing performed according to SAE J1995 without the air cleaner and muffler. Actual engine power and torque are lower and affected by accessories (air cleaner, exhaust, charging, cooling, fuel pump, etc.), application, engine speed, ambient operating conditions (temperature, humidity and altitude) and other factors. This J1940 / J1995 rating provides consistent measurement to customers who may want to control the intake and exhaust features of the engine. For more information, contact Kohler Co. Engine Engineering Department. Kohler Co. reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligation.

2 Inches of H20 @ 3600 RPM WOT

3 J1995 power and torque certified by 3rd Party Witness
Service Manual

Sales Brochure

Quick Reference Parts Guide

Kohler Warranty

Owners Manual

106 lbs

Kohler 20Hp Command V-Twin Engine Electric Start CH20S

Steambrite Supply

Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper

PA-CH640S PA-CH640-3075 Moridge Grasshopper
img width="400" height="400" alt=""
src="http://www.steam-brite.com/equipment/Kohler-1-6021001-Command-VTwin-Horizontal-Engine-Electric_Start-PA-CH20S-64510.jpg" />

Overview
Kohler Command Pro OHV Horizontal Grasshopper Replacement Engine with Electric Start — 20 HP, 1 1/8in.dia. x 3 11/32in.L Shaft, Model# PA-CH640-3075

Kohler 20 HP Command V-Twin Horizontal Engine. Replacement engine for Moridge/Grasshopper Zero Turn Radius mowers. Kohler engine has reliable features, including: OHV, V-Twin design, cast iron cylinder liners and aluminum block construction.

Features + Benefits

- Oil Sentry
-

Key Specs

Engine Displacement (cc)

624

Start Type

Electric

Application

Moridge / Grasshopper zero turn radius mowers

Steambrite Supply

Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper

Engine Type

Command Pro V-Twin - CH20 - OHV

Rated Power (HP)

20

Torque (ft./lbs.)

32.7

Displacement (cu. in.)

39.1

Shaft Output

Horizontal

Shaft Diameter (in.)

1 1/8

Shaft Length (in.)

3 11/32

Shaft End Tapped (Diameter (in.)/Threads per inch)

5/8 - 18

Steambrite Supply

Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper

Shaft Rotation (From PTO Shaft Side)

Counterclockwise

Cylinders (qty.)

2

Cylinder Bore

Cast iron

Bore x Stroke (in.)

3.03 x 2.64

Compression Ratio

8.5:1

Cooling System

Air cooled

Air Cleaner Type

Dual element air filter with foam pre-cleaner

Fuel Tank

Steambrite Supply

Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper

Not included

Fuel Type

Gasoline

Fuel Pump

Mechanical

Fuel Filter

In line

Oil Capacity (qt.)

2

Lubrication System

Full pressure

Ignition System

Electronic

Carburetor

Fuel injection

Steambrite Supply

Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper

Max. RPM

3,600

Charging System Amps

20

Auto Compression Release

Yes

Mounting Base L x W (in.)

7 1/4 x 3 1/2

Dimensions L x W x H (in.)

14 x 17 11/16 x 19

EPA/CARB Approval (California Air Resource Board)

Yes

Manufacturer Warranty

24 months parts / 24 months labor

Ship Weight

144.0 lbs

Steambrite Supply

Parts & Accessories > Engines > Kohler Command Pro 20.5hp PA-CH640 > Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper

Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper

Item#

24831, CH640-3075, CH20S

Manufacturer Warranty: 24 months parts / 24 months labor

This part # has been replaced by part #CH640-3075----

Options available for Kohler PA-CH640-3149 Replaces CH640-3075 20Hp Command Pro Horizontal Engine Electric Start CH20S Grasshopper :

Extended Warranty

+ No Extended Warranty, 2 Additional Years Parts Plus On Site Labor (Items under $2500.00) [SBMW2-2500], 4 Additional Years Parts and On Site Labor (Items under $2500.00) [SBMW4-2500].

Shipping Surcharges

Home Delivery Needs Liftgate Curb Service Because No Forklift On Site (Required) No Appointment Provided, None Commercial Address Forklift / Loading Dock On Site No Appointment Provided, +Home Delivery Needs Liftgate Curb Service Because No Forklift On Site With Appointment Delivery Time, Commercial Address But Needs Liftgate Service Because No Forklift or Dock on Site No Appointment Provided.

Availability: This product was added to our catalog on Tuesday 18 January, 2011