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Model Number: PA-CH640-3229

Kohler PA-CH640-3204 20Hp Command Pro Basic Horizontal Engine PA-CH640-3229  
CH640-3006

Manufacturer: Kohler

Kohler 20Hp Command V-Twin Engine Electric Start CH20S PA-CH640-3204 Basic  
PA-CH640-3204 20 HP Basic No Panel or Controls

PA-CH640-3204 Supersedes CH640-3006, CH20S-64500

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 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.

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Quiet, Smooth Operation.

Easy Dependable Starts.

Full pressure lubrication. 20 Amp alternator. Pulse fuel pump. Satellite exhaust valves with seat inserts and rotators. 1 7/16" X 4 29/64" shaft is drilled and tapped 5/8"-18: has 3/8" keyway. Two limited warranty.

Overhead Valve Design OHV

- &bull; Hydraulic Valve Lifters
  - &bull; Cast-Iron Cylinder Liners
  - &bull; Electronic Ignition
  - &bull; Large Capacity Dual Element Air Cleaner
  - &bull; High Efficiency Grass Screen and Fan
  - &bull; Closed Breather System
  - &bull; Stellite® Exhaust Valves
  - &bull; Full Pressure Lubrication
  - &bull; Large Capacity In-Line Fuel Filter
  - &bull; Easy Access Valve Cover Oil Fill-Yellow
  - &bull; Oil Level Dipstick-Yellow
  - &bull; Large Capacity Oil Filter, Dual Oil Drain
  - &bull; Oil Sentry® (Switch Installed and Wired but Unconnected)
  - &bull; Variable Speed Governor
  - &bull; Fuel Shutdown Solenoid, Smart-Choke® Carburetor
  - &bull; Mechanical Fuel Pump
  - &bull; High Performance Spark Plugs
  - &bull; 12 Volt Solenoid Shift Starter
  - &bull; 20 Amp Alternator, Regulated
  - &bull; Crankshaft-1.437" (36 mm) Diameter x 4.453" (113 mm) PTO Length, 0.375" (9.5 mm) Keyway, Drilled and Tapped 1.5" (38 mm) Deep, 5/8-18 UNF
  - &bull; 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.

Standard Features Plus:

- &bull; 3/16" Evaporative Emissions Connection

Engine Type:

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

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

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

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 H2O @ 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 CH640-3004 and  
PA-CH640 Basic

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## Overview

Kohler 20 HP Command V-Twin Horizontal Engine. For Simplicity Sun Star garden tractor. This gasoline-driven, 4-cycle, 20 HP engine has reliable features, including: OHV, cast iron V-Twin cylinder liners, and aluminum block construction.

## Features + Benefits

Hydraulic valve lifters are oil-pressurized, ensuring that push rods stay in constant contact with the rocker arms

The valve train is virtually maintenance-free and requires no adjustment

Full-pressure lubrication delivers continuous lube to critical engine components, even at 25° angle of operation

Large capacity, in-line fuel filter provides extra protection against fuel line-clogging dirt particles

Overhead valve technology provides greater volumetric efficiency and a higher compression ratio, providing more power, improved fuel economy, reduced oil consumption and better cooling

Virtually no carbon buildup for reduced maintenance costs

The variable speed mechanical governor promises smooth performance, regardless of application or fluctuating demands for power

The Kohler Command® electronic ignition system generates a stronger spark at lower cranking speeds and the Automatic Compression Release (ACR) system allows compression to escape during cranking to reduce pull force for reliable starts

Easy maintenance, thanks to easy-access oil fill cap and dipstick handle and dual oil drains

High power performance, with high-performance spark plugs, a 15 Amp regulated alternator and a large in-line fuel filter

Reliable, long-life design with hardened crankshaft journals, high-efficiency fan and screen, large dual-element air filter with foam pre-cleaner, cast iron cylinder liners and a spin-on, full-flow oil filter

Quiet, smooth operation thanks to an engineered material blower housing and a mechanical fuel pump

CARB and EPA-emission certified

Smart-Choke® carburetor

Electronic ignition system

Solenoid shift starter

## What's Included

- (1) Engine

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Key Specs

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Air Cleaner Type  
Large capacity dual element

Fuel Type  
Gasoline

Fuel Pump  
Mechanical

Fuel Filter  
Large capacity in-line

Oil Capacity (qt.)  
2

Lubrication System  
Full pressure

Low Oil Alert  
Oil Sentry

Low Oil Shutdown  
Oil Sentry

Ignition System  
Electronic

Governor System  
Variable speed

Carburetor  
Smart Choke

Throttle Control

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Engine-mounted

Choke Control  
Smart Choke

Max. RPM  
3,600

Charging System Amps  
20

Muffler Included  
No

Bolt Circle (in.)  
7

Mounting Base L x W (in.)  
7 1/4 x 3 1/2

Mounting Bolt Pattern L x W (in.)  
7 1/4 x 3 1/2

Dimensions L x W x H (in.)  
14 x 17.7 x 19

EPA/CARB Approval (California Air Resource Board)  
Yes

Manufacturer Warranty: 24 months parts / 24 months labor  
20110823sdw

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*Availability: This product was added to our catalog on Tuesday 17 September, 2013*

Steambrite Supply