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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Small Engines Parts

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  | 3  R | E | W | I | N | D | S | T | A | R | T | E | R |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | B |  |  |  |  |  |  |  | R |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 4  A | R | M | A | T | U | R | E |  |  |  | 5  F |  | M |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  | E |  |  |  | 6  C |  | 7  E | X | H | A | U | S | T | V | A | L | V | E |  |  |  |  |
|  |  |  |  |  |  |  |  | T |  |  |  | A |  | L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | O |  |  |  | M |  | T |  |  |  | 8  G |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 9  C | R | A | N | K | S | H | A | F | T |  | O |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | H |  | N |  |  |  | V |  |  | 10  P |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 11  S |  | 12  C | R | A | N | K | C | A | S | E |  | 13  D | I | P | S | T | I | C | K |  |  |
|  |  |  |  |  |  |  |  | P |  |  |  | F |  |  |  |  |  | R |  |  | S |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 14  T | A | P | P | E | T |  |  | 15  C | O | N | N | E | C | T | I | N | G | R | O | D |  |  |
|  |  |  |  |  |  |  |  | R |  |  |  |  |  |  |  |  |  | O |  |  | O |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | K |  | 16  P |  | 17  M | U | 18  F | F | L | E | R |  |  | N |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | P |  | I |  |  |  | L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | L |  | S |  |  | 19  C | Y | L | I | N | D | E | R | B | L | O | C | K |  |  |  |  |
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|  |  |  |  |  |  |  |  | G |  | O |  |  |  | H |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 20  I | N | T | A | K | E | V | A | L | V | E |  |  |  |  |  |  |  |  |  |  |
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| **Across**  **3.** Mechanical starter that commonly consists of a rope, pulley and return spring used to manually rotate the crankshaft to start an engine  **4.** Rotating part of an electric motor consisting of an iron core or magnet  **7.** Where the products of burned gas leave the engine  **9.** Converts linear motion of the piston into rotary motion  **12.** Houses and supports the crankshaft  **13.** A graduated rod for measuring the depth of a liquid, especially oil in an engine  **14.** A sliding rod, intermittently struck by the cam, for moving another part, as a valve.  **15.** Transfers motion from the piston to the crankshaft and functions as a lever arm  **17.** Subdues noise produced from exhaust gases exiting the combustion chamber  **19.** Part of engine that contains the cylinder bore and valve train components  **20.** Allows air-fuel mixture to be drawn into the combustion chamber | **Down**  **1.** Acts as a pivoting device for opening and closing overhead valves  **2.** Provides the required air-fuel mixture to the combustion chapter based on engine operating speed and load  **5.** A storage device to hold fuel for an engine.  **6.** Includes the cam gear, cam lobes and bearing surfaces  **8.** Maintains a desired engine speed regardless of the load applied to the engine  **10.** Cylindrical component that slides back and forth in the cylinder bore by forces produced during the combustion process  **11.** Isolates the electricity induced in the secondary windings and directs a high voltage charge to the spark gap at the tip of the spark plug  **16.** Expandable split ring used to provide a seal between the piston and the cylinder wall  **18.** Mounted at one end of the crankshaft to provide inertia for the engine |

   Flywheel       Governor       Muffler       Armature       Carburetor       Fuel Tank       Dipstick       Piston Rings       Piston       Cylinder Block       Tappet       Connecting Rod       Crankcase       Rewind Starter       Rocker Arm       Spark Plug       Intake Valve       Exhaust Valve       Crankshaft       Camshaft