



## ***Illustrated Parts List***

### ***Pressure Washer / Lavadora de Presión***



This pressure washer is rated in accordance to the Pressure Washer Manufacture Association (PWMA) Standard PW101 (Testing and Rating Performance of Pressure Washers).

Questions? Help is just a moment away!  
Preguntas? La ayuda es justa un momento lejos!  
Call: Pressure Washer Helpline

Llame: Línea Directa del Lavadora a Presión - 1-888-611-6708 M-F 8-5 CT

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#### **Model / Modelo**

| <b>Mfg. No.</b> | <b>Description / Descripción</b> |
|-----------------|----------------------------------|
| 020296-1        | 2,500 PSI Troy-Bilt              |

**Manual Part No.** 203779

Revision E  
Rev. Date: 12/9/2011

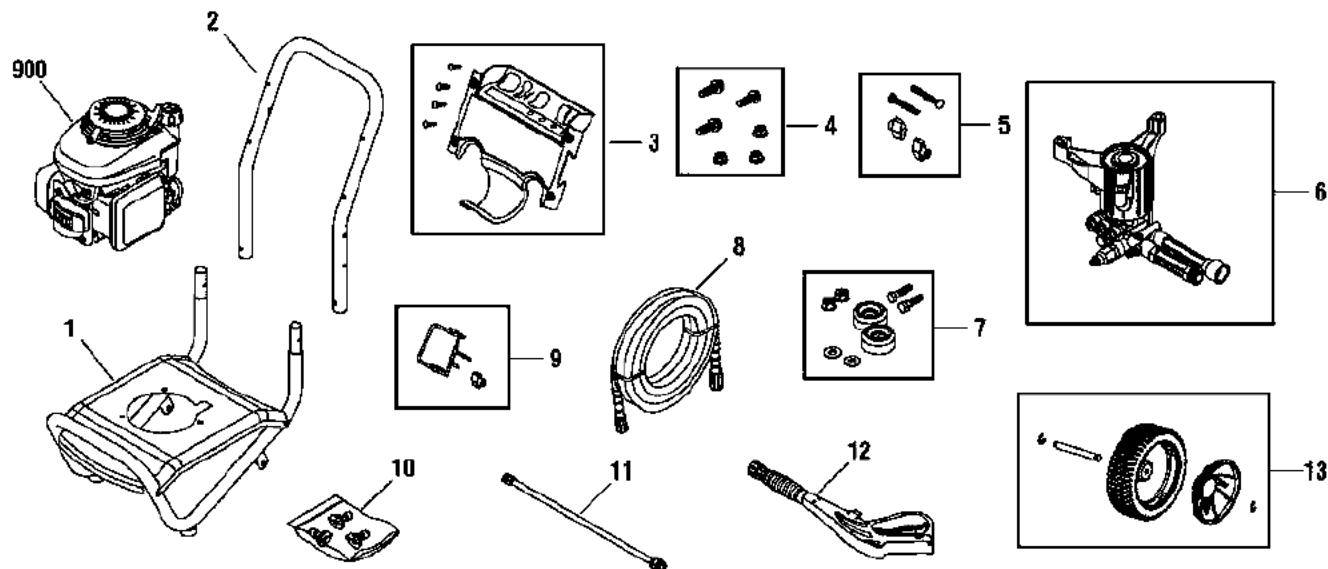


| <b>PRODUCT COMPONENTS</b>               | <b>PAGES</b>             |
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## Main Unit

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.

203820S



| REF. | PART NO.   | DESCRIPTION                     | REF. | PART NO.  | DESCRIPTION                                  |
|------|------------|---------------------------------|------|-----------|----------------------------------------------|
| 1    | 201366GS   | BASE                            | --   | 203872GS  | AXLE                                         |
| 2    | P199110GS  | HANDLE                          | --   | 200519GS  | HUBCAP                                       |
| 3    | 201933GS   | KIT, Billboard w/Decals & Clips | --   | 192050GS  | E-RING                                       |
| --   | B1797GS    | CLIPS                           | 900  | ----      | * ENGINE                                     |
| 4    | 200199GS   | KIT, Pump Mounting Hardware     | --   | 203779GS  | MANUAL, Operator's (Not Illustrated)         |
| 5    | B2203GS    | KIT, Handle Connector           | --   | 23139GS   | KEY (Not Illustrated)                        |
| 6    | 202274GS   | PUMP ASSEMBLY                   | --   | 208673GS  | VALVE, Thermal Relief (Not Illustrated)      |
| 7    | 192310GS   | KIT, Vibration Mount            | --   | 310975GS  | HOSE, Chemical (Not Illustrated)             |
| 8    | 196006GS   | HOSE                            | --   | 194256GS  | KIT, Tag/Warning Service (Not Illustrated)   |
| 9    | 201661GS   | KIT, Gun Holder                 | --   | 194524GS  | DECAL, Honda Choke (Not Illustrated)         |
| 10   | 201324GS   | KIT, Nozzles                    | --   | BB3061BGS | OIL BOTTLE (Not Illustrated)                 |
| --   | 198841GS   | NOZZLE, Plastic, Soap           | --   | 87815GS   | GOGGLES (Not Illustrated)                    |
| --   | 195983AEGS | NOZZLE, QC, Red                 | --   | 6039      | PUMP SAVER (Optional Accessory)              |
| --   | 195983QGS  | NOZZLE, QC, Green               | --   | 6048      | KIT, O-Ring Maintenance (Optional Accessory) |
| 11   | 200595GS   | EXTENSION                       |      |           |                                              |
| 12   | 199117GS   | GUN                             |      |           |                                              |
| 13   | 201394GS   | KIT, Wheel                      |      |           |                                              |

### Footnotes

\* Contact Engine manufacturer for parts and service

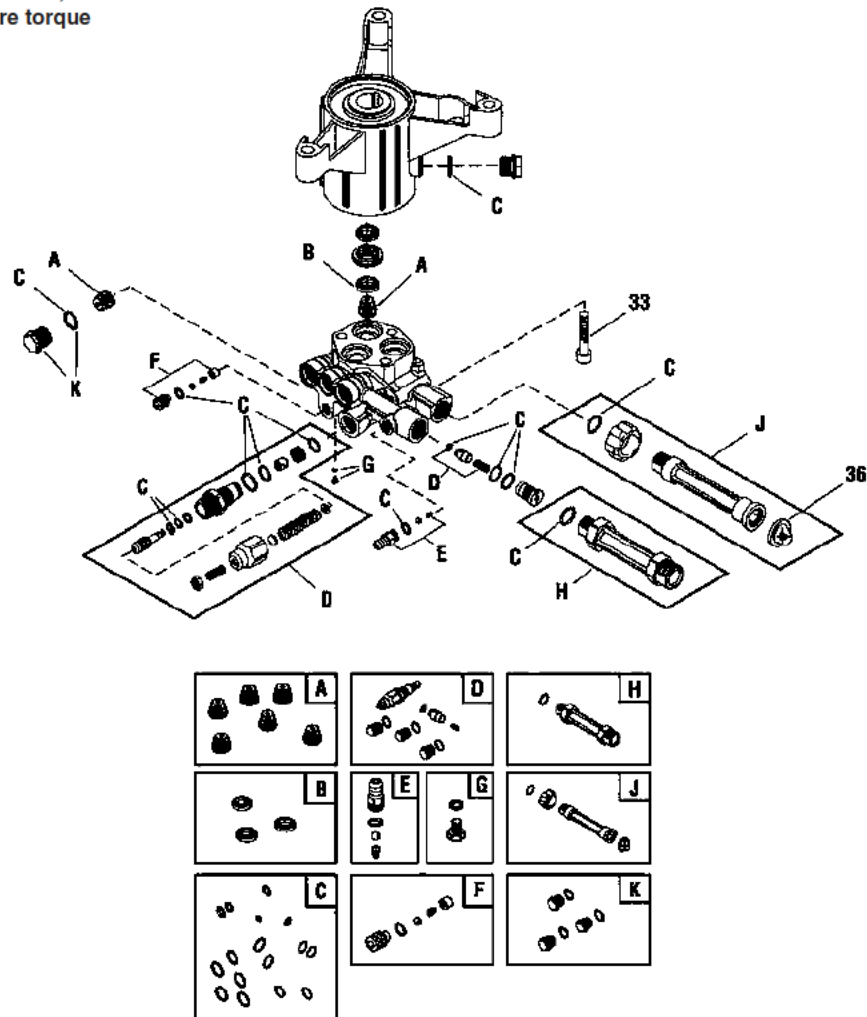
The above parts group applies to the following Mfg. Nos.:

020296-1 - 2,500 PSI Troy-Bilt

## Pump

201112SRV

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



| REF. | PART NO. | DESCRIPTION                            | REF. | PART NO. | DESCRIPTION |
|------|----------|----------------------------------------|------|----------|-------------|
| 33   | 200275GS | SCREW                                  |      |          |             |
| 36   | B2384GS  | FILTER, Garden Hose                    |      |          |             |
| A    | 200344GS | * KIT, Check Valve                     |      |          |             |
| B    | 200345GS | * KIT, Water Seal                      |      |          |             |
| C    | 200346GS | * KIT, O-Ring                          |      |          |             |
| D    | 315747GS | * KIT, Unloader                        |      |          |             |
| E    | 192914GS | * KIT, Chemical Injection              |      |          |             |
| F    | 200349GS | * KIT, Easy Start                      |      |          |             |
| G    | 200350GS | * SCREW, Grub                          |      |          |             |
| H    | 201497GS | * FITTING                              |      |          |             |
| J    | 201496GS | * KIT, Water Inlet                     |      |          |             |
| K    | 317056GS | * KIT, Plug                            |      |          |             |
| --   | 208673GS | VALVE, Thermo Relief (Not Illustrated) |      |          |             |
| --   | 6039     | PUMP SAVER (Optional Accessory)        |      |          |             |
| --   | 6033     | OIL BOTTLE (Optional Accessory)        |      |          |             |

### Footnotes

\* Service Kit includes all parts shown in box.

The above parts group applies to the following Mfg. Nos.:

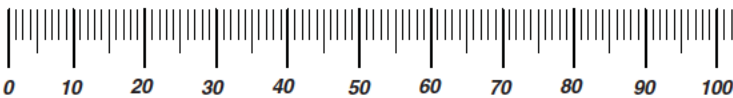
020296-1 - 2,500 PSI Troy-Bilt



# Hardware Identification & Torque Specifications

| Torque Specification Chart<br>FOR STANDARD METRIC MACHINE HARDWARE (Tolerance $\pm 20\%$ ) |                                                                                                |      |                                                                                                |      |                                                                                                 |      |                                                                                                 |      |
|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------|------|
| Property Class                                                                             | <br>Class 5.6 |      | <br>Class 8.8 |      | <br>Class 10.9 |      | <br>Class 12.9 |      |
| Size Of Hardware                                                                           | in/lbs<br>ft/lbs                                                                               | Nm.  | in/lbs<br>ft/lbs                                                                               | Nm.  | in/lbs<br>ft/lbs                                                                                | Nm.  | in/lbs<br>ft/lbs                                                                                | Nm.  |
| M3                                                                                         | 5.88                                                                                           | .56  | 13.44                                                                                          | 1.28 | 19.2                                                                                            | 1.80 | 22.92                                                                                           | 2.15 |
| M4                                                                                         | 13.44                                                                                          | 1.28 | 30.72                                                                                          | 2.90 | 43.44                                                                                           | 4.10 | 52.56                                                                                           | 4.95 |
| M5                                                                                         | 26.4                                                                                           | 2.50 | 60.96                                                                                          | 5.75 | 5.97                                                                                            | 8.10 | 7.15                                                                                            | 9.7  |
| M6                                                                                         | 44.64                                                                                          | 4.3  | 7.3                                                                                            | 9.9  | 10.3                                                                                            | 14   | 12.1                                                                                            | 16.5 |
| M7                                                                                         | 5.2                                                                                            | 7.1  | 12.1                                                                                           | 16.5 | 16.9                                                                                            | 23   | 19.9                                                                                            | 27   |
| M8                                                                                         | 7.7                                                                                            | 10.5 | 17.7                                                                                           | 24   | 25                                                                                              | 34   | 29                                                                                              | 40   |
| M10                                                                                        | 15                                                                                             | 21   | 35                                                                                             | 48   | 50                                                                                              | 67   | 59                                                                                              | 81   |
| M12                                                                                        | 26                                                                                             | 36   | 61                                                                                             | 83   | 86.2                                                                                            | 117  | 103                                                                                             | 140  |
| M14                                                                                        | 42                                                                                             | 58   | 101                                                                                            | 132  | 136                                                                                             | 185  | 162                                                                                             | 220  |
| M16                                                                                        | 64                                                                                             | 88   | 147                                                                                            | 200  | 210                                                                                             | 285  | 250                                                                                             | 340  |
| M18                                                                                        | 89                                                                                             | 121  | 202                                                                                            | 275  | 287                                                                                             | 390  | 346                                                                                             | 470  |
| M20                                                                                        | 126                                                                                            | 171  | 290                                                                                            | 390  | 405                                                                                             | 550  | 486                                                                                             | 660  |
| M22                                                                                        | 169                                                                                            | 230  | 390                                                                                            | 530  | 559                                                                                             | 745  | 656                                                                                             | 890  |
| M24                                                                                        | 217                                                                                            | 295  | 497                                                                                            | 375  | 708                                                                                             | 960  | 840                                                                                             | 1140 |
| M27                                                                                        | 320                                                                                            | 435  | 733                                                                                            | 995  | 1032                                                                                            | 1400 | 1239                                                                                            | 1680 |
| M30                                                                                        | 435                                                                                            | 590  | 995                                                                                            | 1350 | 1401                                                                                            | 1900 | 1681                                                                                            | 2280 |
| M33                                                                                        | 590                                                                                            | 800  | 1349                                                                                           | 1830 | 1902                                                                                            | 2580 | 2278                                                                                            | 3090 |
| M36                                                                                        | 759                                                                                            | 1030 | 1740                                                                                           | 2360 | 2441                                                                                            | 3310 | 2935                                                                                            | 3980 |
| M39                                                                                        | 988                                                                                            | 1340 | 2249                                                                                           | 3050 | 3163                                                                                            | 4290 | 3798                                                                                            | 5150 |

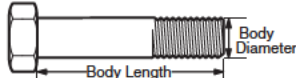
The guides and ruler furnished below are designed to help you select the appropriate hardware.



Nut, M8

Thread  
Diameter (mm)  
Inside Diameter (in)  
Threads per inch

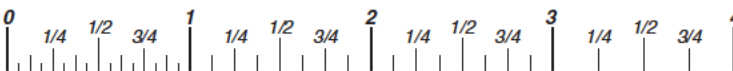
Nut, 1/2-16



Screw, M8- 1.25 x 25

Thread Diameter (mm)  
Distance between threads (mm)  
Body Length (mm)  
Body Diameter  
Threads per inch  
Body Length (in)

Screw, 1/2- 16 x 2



## Standard Hardware Sizing

When a washer or nut is identified as 1/2" (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (1.25 thread diameter). The final number is the body length of the bolt or screw, 2 inches (50mm).

| Torque Specification Chart<br>FOR STANDARD MACHINE HARDWARE (Tolerance $\pm 20\%$ ) |                                                                                                    |       |                                                                                                    |       |                                                                                                    |         |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------|---------|
| Hardware Grade                                                                      | <br>SAE Grade 2 |       | <br>SAE Grade 5 |       | <br>SAE Grade 8 |         |
| Size Of Hardware                                                                    | in/lbs<br>ft/lbs                                                                                   | Nm.   | in/lbs<br>ft/lbs                                                                                   | Nm.   | in/lbs<br>ft/lbs                                                                                   | Nm.     |
| 8-32                                                                                | 19                                                                                                 | 2.1   | 30                                                                                                 | 3.4   | 41                                                                                                 | 4.6     |
| 8-36                                                                                | 20                                                                                                 | 2.3   | 31                                                                                                 | 3.5   | 43                                                                                                 | 4.9     |
| 10-24                                                                               | 27                                                                                                 | 3.1   | 43                                                                                                 | 4.9   | 60                                                                                                 | 6.8     |
| 10-32                                                                               | 31                                                                                                 | 3.5   | 49                                                                                                 | 5.5   | 68                                                                                                 | 7.7     |
| 1/4-20                                                                              | 66                                                                                                 | 7.6   | 8                                                                                                  | 10.9  | 12                                                                                                 | 16.3    |
| 1/4-28                                                                              | 76                                                                                                 | 8.6   | 10                                                                                                 | 13.6  | 14                                                                                                 | 19.0    |
| 5/16-18                                                                             | 11                                                                                                 | 15.0  | 17                                                                                                 | 23.1  | 25                                                                                                 | 34.0    |
| 5/16-24                                                                             | 12                                                                                                 | 16.3  | 19                                                                                                 | 25.8  | 29                                                                                                 | 34.0    |
| 3/8-16                                                                              | 20                                                                                                 | 27.2  | 30                                                                                                 | 40.8  | 45                                                                                                 | 61.2    |
| 3/8-24                                                                              | 23                                                                                                 | 31.3  | 35                                                                                                 | 47.6  | 50                                                                                                 | 68.0    |
| 7/16-14                                                                             | 30                                                                                                 | 40.8  | 50                                                                                                 | 68.0  | 70                                                                                                 | 95.2    |
| 7/16-20                                                                             | 35                                                                                                 | 47.6  | 55                                                                                                 | 74.8  | 80                                                                                                 | 108.8   |
| 1/2-13                                                                              | 50                                                                                                 | 68.0  | 75                                                                                                 | 102.0 | 110                                                                                                | 149.6   |
| 1/2-20                                                                              | 55                                                                                                 | 74.8  | 90                                                                                                 | 122.4 | 120                                                                                                | 163.2   |
| 9/16-12                                                                             | 65                                                                                                 | 88.4  | 110                                                                                                | 149.6 | 150                                                                                                | 204.0   |
| 9/16-18                                                                             | 75                                                                                                 | 102.0 | 120                                                                                                | 163.2 | 170                                                                                                | 231.2   |
| 5/8-11                                                                              | 90                                                                                                 | 122.4 | 150                                                                                                | 204.0 | 220                                                                                                | 299.2   |
| 5/8-18                                                                              | 100                                                                                                | 136   | 180                                                                                                | 244.8 | 240                                                                                                | 326.4   |
| 3/4-10                                                                              | 160                                                                                                | 217.6 | 260                                                                                                | 353.6 | 386                                                                                                | 525.0   |
| 3/4-16                                                                              | 180                                                                                                | 244.8 | 300                                                                                                | 408.0 | 420                                                                                                | 571.2   |
| 7/8-9                                                                               | 140                                                                                                | 190.4 | 400                                                                                                | 544.0 | 600                                                                                                | 816.0   |
| 7/8-14                                                                              | 155                                                                                                | 210.8 | 440                                                                                                | 598.4 | 660                                                                                                | 897.6   |
| 1-8                                                                                 | 220                                                                                                | 299.2 | 580                                                                                                | 788.8 | 900                                                                                                | 1,244.0 |
| 1-12                                                                                | 240                                                                                                | 326.4 | 640                                                                                                | 870.4 | 1,000                                                                                              | 1,360.0 |

## NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
  - for prevailing torque locknuts - use 65% of grade 5 torques.
  - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

## Common Hardware Types

Hex Head Capscrew



Washer

Carriage Bolt



Lockwasher



Hex Nut

## Wrench & Fastener Size Guide

|                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 1/4" Bolt or Nut<br>Wrench—7/16"                                                    | 5/16" Bolt or Nut<br>Wrench—1/2"                                                      | 3/8" Bolt or Nut<br>Wrench—9/16"                                                      | 7/16" Bolt or Nut<br>Wrench (Bolt)—5/8"<br>Wrench (Nut)—11/16"                        | 1/2" Bolt or Nut<br>Wrench—3/4"                                                       |
| M6 Bolt or Nut<br>Wrench—10mm                                                       | M8 Bolt or Nut<br>Wrench—13mm                                                         | M10 Bolt or Nut<br>Wrench—17mm                                                        | M12 Bolt or Nut<br>Wrench—19mm                                                        | M14 Bolt or Nut<br>Wrench—22mm                                                        |



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