

# HERCULES



ENGINE: G1600 (163 CI)

|                                                            |       |     |                         |
|------------------------------------------------------------|-------|-----|-------------------------|
| BORE: 4.000"                                               | 4 Cyl | Gas | NOTES: Sleeveless Block |
| APPLICATION: Forklifts: Cat & Daewoo<br>Power Units: White |       |     |                         |

|                                                                                     | QTY | ITEM # | DESCRIPTION                                               | LETTERED ITEMS INCLUDED IN KIT |   |   |  |
|-------------------------------------------------------------------------------------|-----|--------|-----------------------------------------------------------|--------------------------------|---|---|--|
|    |     |        |                                                           |                                |   |   |  |
|                                                                                     | 1   | 997191 | STD Premium ( - ) Kit: Cat & Daewoo Forklifts (Spec 1404) |                                | P |   |  |
|                                                                                     | 1   | 997148 | STD Premium ( - ) Kit: Except Cat & Daewoo Forklifts      |                                | P |   |  |
|    | 4   | 191273 | STD Piston Assembly (Flat Top / 1.671" Comp Dist)         |                                | P |   |  |
|                                                                                     | 4   | 191274 | .020 Piston Assembly (Flat Top / 1.671" Comp Dist)        |                                |   |   |  |
|                                                                                     | 4   | 191275 | .030 Piston Assembly (Flat Top / 1.671" Comp Dist)        |                                |   |   |  |
|                                                                                     | 4   | 191276 | .040 Piston Assembly (Flat Top / 1.671" Comp Dist)        |                                |   |   |  |
|                                                                                     | 4   | 191277 | .060 Piston Assembly (Flat Top / 1.671" Comp Dist)        |                                |   |   |  |
|                                                                                     | 4   | 191457 | STD Piston Assembly (1.800" x .200" Cup / 1.741" CD)      |                                |   | P |  |
|                                                                                     | 4   | 191458 | .020 Piston Assembly (1.800" x .200" Cup / 1.741" CD)     |                                |   |   |  |
|                                                                                     | 4   | 191459 | .040 Piston Assembly (1.800" x .200" Cup / 1.741" CD)     |                                |   |   |  |
|    | 4   | 191278 | STD Piston Ring Set (2-5/64 1-3/16)                       |                                | P | P |  |
|                                                                                     | 4   | 191279 | .020 Piston Ring Set (2-5/64 1-3/16)                      |                                |   |   |  |
|                                                                                     | 4   | 191281 | .030 Piston Ring Set (2-5/64 1-3/16)                      |                                |   |   |  |
|                                                                                     | 4   | 191282 | .040 Piston Ring Set (2-5/64 1-3/16)                      |                                |   |   |  |
|                                                                                     | 4   | 191283 | .060 Piston Ring Set (2-5/64 1-3/16)                      |                                |   |   |  |
|   | 4   | 291444 | STD Rod Bearing (1.999" STD Crankpin)                     |                                | P | P |  |
|                                                                                     | 4   | 291445 | .010 Rod Bearing (1.999" STD Crankpin)                    |                                |   |   |  |
|                                                                                     | 4   | 291446 | .020 Rod Bearing (1.999" STD Crankpin)                    |                                |   |   |  |
|                                                                                     | 4   | 291447 | .030 Rod Bearing (1.999" STD Crankpin)                    |                                |   |   |  |
|  | 1   | 291295 | STD Main Bearing Set                                      |                                | P | P |  |
|                                                                                     | 1   | 291296 | .010 Main Bearing Set                                     |                                |   |   |  |
|                                                                                     | 1   | 291297 | .020 Main Bearing Set                                     |                                |   |   |  |
|                                                                                     | 1   | 291298 | .030 Main Bearing Set                                     |                                |   |   |  |
|  | 1   | 391299 | Head Gasket Set                                           |                                |   |   |  |
|                                                                                     | 1   | 391311 | Head Gasket                                               |                                |   |   |  |
|                                                                                     | 1   | 391312 | Valve Cover Gasket                                        |                                |   |   |  |
|                                                                                     | 1   | 391313 | Manifold Gasket                                           |                                |   |   |  |
|  | 1   | 391314 | Full Gasket Set w/Seals: Except Cat & Daewoo Forklifts    |                                | P |   |  |
|                                                                                     | 1   | 391415 | Full Gasket Set w/Seals: Cat & Daewoo Forklifts           |                                |   | P |  |
|                                                                                     | 1   | 391315 | Lower Gasket Set w/Seals                                  |                                |   |   |  |
|  | 1   | 391316 | Pan Gasket Set                                            |                                |   |   |  |
|  | 1   | 391317 | Front Crank Seal                                          |                                |   |   |  |
|                                                                                     | 1   | 391318 | Rear Crank Seal                                           |                                |   |   |  |
|  | 4   | 291299 | Pin Bushing                                               |                                |   |   |  |
|                                                                                     | 1   | 291311 | Cam Bearing Set                                           |                                | P | P |  |
|  | 8   | 791151 | Rod Bolt                                                  |                                |   |   |  |
|                                                                                     | 8   | 791152 | Rod Nut                                                   |                                |   |   |  |
|                                                                                     | 10  | 791153 | Head Bolt                                                 |                                |   |   |  |

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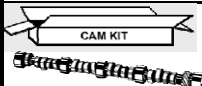
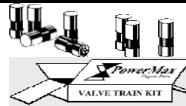
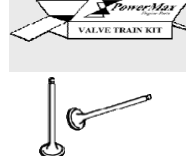
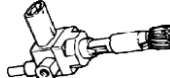
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ENGINE: G1600 (163 CI)



|              |                                               |     |                         |
|--------------|-----------------------------------------------|-----|-------------------------|
| BORE: 4.000" | 4 Cyl                                         | Gas | NOTES: Sleeveless Block |
| APPLICATION: | Forklifts: Cat & Daewoo<br>Power Units: White |     |                         |

| QTY                                                                                 | ITEM #                                                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LETTERED INCLUDED | ITEMS IN KIT               |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------|
| <b>KIT COMPONENTS CONTINUED &gt;</b>                                                |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | P                 | P                          |
|    | 1<br>1                                                    | 591192 Camshaft Assembly w/Gear<br>591193 Cam Thrust Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                            |
|    | 8                                                         | 591194 Tappet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                            |
|    | 4<br>4<br>4<br>4<br>4<br>4                                | 491268 Exhaust Valve (45° Positive Rotator Upgrade) (1)<br>491271 Ex Valve Upgrade Kit (45° w/Rotator, Keepers & Spring) (1)<br>491269 Intake Valve (Extended Tip Upgrade) (1)<br>491272 In Valve Upgrade Kit (w/ Retainer, Keepers, Seal & Sprg) (1)<br>491343 Exhaust Valve: Partial Cat & Daewoo (30°)<br>491344 Intake Valve: Partial Cat & Daewoo                                                                                                                                                                                                                                                                                                                               | P<br>P            | P<br>P                     |
|    | 8<br>8<br>4<br>8<br>8<br>8<br>4<br>4<br>4<br>4<br>16<br>8 | 401163 Ex/In Service Repair Valve Guide (.439" OD / 2.281" OAL) (1)<br>401164 Ex/In Service Repair Valve Guide (.502" OD / 2.281" OAL) (1)<br>491338 Valve Guide: Cat & Daewoo Forklifts<br>491274 Valve Spring, Original Type (1.970" Assembled Height) (1)<br>491275 Valve Spring, Upgrade Type (1.870" Assembled Height) (1)<br>491342 Valve Spring: Cat & Daewoo Forklifts<br>491276 Positive Rotator (Used w/Upgrade Only) (1)<br>491278 Exhaust Valve Cap, Original Roto-Valve (1)<br>491339 Exhaust Rotator: Cat & Daewoo Forklifts<br>491341 Intake Retainer<br>491273 Valve Keeper (Half), Except Roto-Valve<br>491277 Exhaust Valve Keeper (Half), Original Roto-Valve (1) |                   | P<br>P<br>P<br>P<br>P<br>P |
|  | 4<br>4                                                    | 401136 Exhaust Valve Seat (1.312" x 1.687" x .312")<br>401137 Intake Valve Seat (1.562" x 1.875" x .312")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                            |
|  | 8<br>8<br>1<br>3                                          | 491279 Rocker Arm<br>491262 Rocker Arm Adjusting Screw<br>491281 Rocker Arm Shaft<br>491282 Rocker Arm Shaft Spring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |                            |
|  | 1<br>1<br>1<br>2<br>8                                     | 591195 Cam Gear<br>591196 Crank Gear<br>591197 Idler Gear w/Bushings<br>591198 Idler Gear Bushing<br>591199 Push Rod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                            |
|  | 1<br>1<br>1                                               | 691169 Oil Pump<br>691171 Oil Pump Kit<br>691172 Oil Pump Screen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                            |
|  | 1<br>1<br>1<br>1                                          | 891168 Thermostat (180 Degree)<br>891169 Fuel Pump<br>801113 Oil Filter: Except Cat & Daewoo Forklifts<br>801121 Oil Filter: Cat & Daewoo Forklifts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | P                 | P                          |

(1)Except Cat & Daewoo Forklifts

X-HERC-163-A

7/5/2006

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