

# SPINNER II<sup>®</sup>

OIL CLEANING CENTRIFUGE

**Model 200 HD** 4 gpm at 60 psig  
2,000 cc Dirt Capacity

Installation Instructions

Parts List

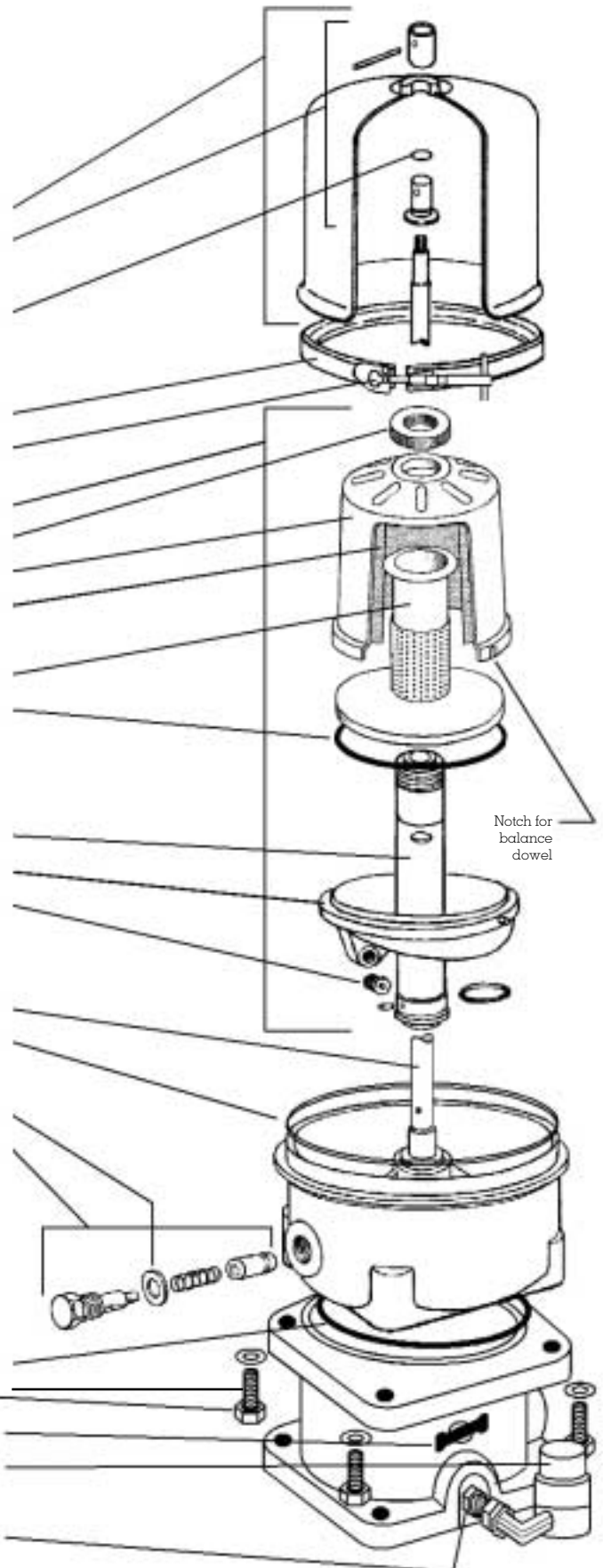
Service Instructions





# Model 200 HD Parts List

Description	Part number
Only items shown with part numbers are available.	
<b>Bold denotes assembly</b>	
<b>Centrifuge, Spinner II/200 HD with 71602 level control base...</b>	<b>71404</b>
<b>Centrifuge, Spinner II/200 HD only</b> .....	<b>71403</b>
<b>Cover assembly (no clamp)</b> .....	<b>71510</b>
<b>Nut assembly-cover</b> .....	<b>71511</b>
(includes pin, collar and seal)	
Seal-cover nut .....	70868
<b>Clamp with tee handle-cover to base</b> .....	<b>71514</b>
Tee bolt and handle-clamp .....	71515
<b>Centrifuge turbine assembly</b> .....	<b>70870</b>
Nut-centrifuge bowl .....	70871
Bowl-centrifuge (part of 70870)* .....	
Insert-centrifuge bowl (package of 25) .....	70974
Baffle/screen-centrifuge .....	70873
Seal-centrifuge bowl (Viton®) .....	70874
<b>Bearing tube assembly-centrifuge</b> .....	<b>70976</b>
Turbine (part of 70870)* .....	
Nozzle turbine (2 required) .....	70975
Tool, centrifuge disassembly (not shown) .....	70950
<b>Base assembly with spindle (no clamp)</b> .....	<b>71516</b>
Seal-base to cover (Viton) .....	70878
Seal-idle cut-out valve .....	70881
<b>Kit-repair, idle cut-out valve</b> .....	<b>70880</b>
Gasket-base flange (gravity drain only) .....	71959
Fitting-straight inlet 7/8-in. SAE x 1/2-in. F pipe (not shown) .....	70955
Fitting-straight inlet 7/8-in. SAE x #8 hose (not shown) .....	70953
<b>Base-level control with hardware</b> .....	<b>71602</b>
Seal-level control base (included) (Viton) .....	70916
Bolts 1/2-in.-13 UNC x 1 1/4-in. and washers (4 each included)	
Cock-safety drain .....	71057
Regulator-air for 71602 .....	71050
Kit, repair-control float assembly (not shown) .....	71609
Cartridge-air valve, industrial .....	71603



\*Individually match balanced to bowl — not interchangeable.

1. Shut off control air. Shut off oil supply or stop engine and allow centrifuge turbine assembly to come to a complete stop. **CAUTION:** Open safety drain cock on side of the Level Control Base (if equipped) and be certain that the unit is not pressurized. If cock is under pressure, locate the source and remove before proceeding. *Check especially for unauthorized shut-off valves in the oil drain line to the sump and remove if found.*
2. Remove cover clamp, unscrew cover nut and remove cover assembly.
3. Partially withdraw centrifuge turbine assembly from the base assembly and allow oil to drain from nozzles before removing completely. Carefully separate centrifuge bowl from turbine. (An optional tool, Part No. 70950, is available to facilitate the disassembly process.) *Do not strike the nut or bushings with or against a hard surface or damage will result.* Remove baffle/screen.
4. Carefully remove the dirt cake from the centrifuge bowl using a wooden spatula or other non-damaging tool. Wipe out bowl with solvent and wash baffle/screen and other parts.
5. Clean turbine and examine top and bottom bearings for excessive wear. Replace bearing tube assembly (Part No. 70876 or 70976), if diameters exceed 0.593-in. (15.06 mm) top or 0.854-in. (21.69 mm) bottom. Check turbine nozzles to ensure free passage of oil. Inspect centrifuge bowl seal and replace if damaged. The seal is Viton and can be reused several times.
6. Seat baffle/screen in turbine, replace bowl (using the optional Part No. 70974 insert liner if desired) and reassemble, tightening the bowl nut securely *using finger pressure only*. Make sure that the bowl seal is uniformly seated all the way around. **Important:** The turbine and bowl are supplied only as factory-balanced assemblies; match balance codes and dowel pin location and *do not interchange turbines and bowls*.
7. Examine spindle journals for damage or excessive wear. Replace base assembly (complete with spindle) if diameter is less than 0.590-in. (14.98 mm) top or 0.852-in. (21.63 mm) bottom. The spindle is pressed into the centrifuge base and aligned at the factory, and cannot be properly serviced in the field.
8. If the Level Control Base is used, check the control mechanism by using a thin wire with a hook formed on one end to engage the float arm on the bracket side. Raise the float. Air should flow into the control mechanism. Air flow should stop when the float is lowered. If the air control is defective, it must be repaired using Part 71603 (air cartridge assembly) or Kit 71609 (float assembly kit), following the instructions in the kits.
9. **Install the centrifuge turbine assembly on spindle, being careful of the bushings. Be sure it rotates freely.**
10. Clean and inspect cover, paying special attention to the cover nut assembly. The seal should be replaced if it shows signs of leaking. **Note:** To disassemble, remove the roll pin and the collar from the *top*, and withdraw the nut from the *bottom*.
11. Examine the base-to-cover seal and replace if damaged. The seal is Viton and can be reused several times.
12. Replace the cover assembly and tighten the cover nut securely *by hand pressure only*. Make sure that the cover seats on the base assembly evenly all around so that the cover seal is properly compressed. Replace the cover-to-base clamp and tighten the clamp nut securely by hand. Check all centrifuge and Level Control Base mounting bolts for proper tightness.
13. Close safety drain cock on the Level Control Base. Open air supply and oil supply to centrifuge. With engine running, check all connections and joints for leaks. Repeat assembly if vibration is excessive.

*Note: All centrifuge turbines are correctly balanced before leaving the factory. An out-of-balance condition can occur as a result of uneven build-up of dirt in the bowl or as a result of excessive bearing or spindle journal wear. Depending on conditions, wear will eventually take place on the spindle and bearings, requiring replacement of the appropriate assemblies.*

### Sales and Service

**SPINNER II<sup>®</sup>**  
**PRODUCTS**



**T. F. HUDGINS**  
INCORPORATED

Tel: 713-682-3651 or 800-231-7746  
Fax: 713-681-9702  
Mail: P.O. Box 920946  
Houston, Texas USA 77292-0946  
Warehouse: 4405 Directors Row  
Houston, Texas USA 77092  
Web Site: [www.Spinnerii.com](http://www.Spinnerii.com)