



Logan HE Jet Junk Basket

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## Logan HE Jet Junk Basket

**USE:** The Logan HE Jet Junk Basket effectively recovers such downhole objects as rock bit cones, small slips, tail chains and remnants of junk shots. The Logan Jet Junk Basket can be run and pulled at moderate speed without having to pull a “wet string.” The tremendous force developed by the jetting action is directed to retrieve junk and not “wash out” or damage the hole wall. One-run junk recovery is commonplace with this tool. The Jet Basket may be converted to a conventional core basket by removing the jet components and attaching the junk retaining assembly directly to the top connection.

- FEATURES:** The Logan HE Jet Basket has two main assemblies:
1. The jet section assembly contains the power components of the jet basket. It consists of the Top Sub, Jet Sleeve, Strainer Sleeve assembly, Ejector Pump Head and Jets.
  2. The Junk Retaining assembly consists of the Junk Sleeve, Bearing assembly, Catcher and Rotary Shoe. Several Junk Retaining assemblies are adapted to each size Jet Section for greater range capacity.

**OPERATION:** Operation of the Logan Jet Junk Basket is simple and direct. Typically, it is run into a point several feet off bottom and an initial wash of the hole is performed. When the hole is cleaned down to the junk, a ball is dropped to initiate the jet action and the tool is run into the bottom for junk recovery.



Logan HE Junk Basket

Complete Jet Basket	15918	15920	15923	15925	15927	15929	15932
Nominal O.D.	3 9/8"	4 1/2"	5 3/4"	6 3/4"	7 7/8"	8 3/4"	10 1/8"

**JET SECTION ASSEMBLY**

Jet Section Assembly	15936	15937	15938	15939	15940	15941	15942
Outside Diameter	3 5/8"	4 1/2"	5 3/4"	6 3/4"	7 7/8"	8 3/4"	10 1/8"
Jet Nozzles Required	4	4	4	4	4	5	7
Top Connection (Pin)	2 3/8" API REG.	2 7/8" API REG.	3 1/2" API REG.	4 1/2" API REG.	4 1/2" API REG.	6 5/8" API REG.	6 5/8" API REG.
Approx. Piston Shear Press (PSI)	---	---	700 PSI	700 PSI	1000 PSI	1000 PSI	1000 PSI
Top Sub	Part No. 214944 Reqd. 1	214947	214949	214952	214954	214956	214953
Lift Cap (to fit top conn.)	Part No. 214943 Reqd. 1	214946	214948	214951	214951	214957	214957
Drop Ball	Part No. 116122 Reqd. 2	116122	114203	114203	114209	114209	114209
Jet Sleeve	Part No. 313413 Reqd. 1	313419	313427	313433	313439	313445	313453
Ejector Pump Head	Part No. 313412 Reqd. 1	313418	313426	313432	313438	313444	313452
Ejector Pump Head O' Ring	Part No. 118189 Reqd. 1	118199	118217	119235	118243	118251	118261
Jet Nozzle	Part No. 118860 Reqd. 4	118870	118959	118968	118971	118971	118971
Copper Gasket	Part No. 118861 Reqd. 4	118871	118871	118969	118969	118969	118969
Jet Sleeve Set Screw	Part No. 117699 Reqd. 1	119214	119214	119214	119214	119214	119214
Jet Nozzle Protector	Part No. --- Reqd. ---	---	118965	118965	118977	118977	118977
Flushing Nozzle	Part No. 118863 Reqd. 1	118863	118962	118962	118974	118974	118974
Pipe Plug	Part No. 119743 Reqd. 1	119743	119744	119745	119745	119745	119745
Ball Seat Wrench	Part No. 118864 Reqd. 1	118864	118864	118864	118864	118864	118864
Strainer Sleeve Assembly	Part No. 15943 Reqd. 1	15943	15944	15944	15945	15945	15945

CONSISTING OF THE FOLLOWING PARTS

**STRAINER SLEEVE ASSEMBLY**

Piston	Part No. --- Reqd. ---	---	118961	118961	118973	118973	118973
Piston Shear Pins	Part No. --- Reqd. ---	---	119215	119215	119215	119215	119215
Piston O' Ring	Part No. --- Reqd. ---	---	118177	118177	118191	118191	118191
Drop Ball Seat	Part No. 119211 Reqd. 1	119211	114220	114220	118697	118697	118697
Ball Seat Retainer	Part No. 118866 Reqd. 1	118866	118966	118966	118978	118978	118978
Strainer Sleeve	Part No. 214945 Reqd. 1	214945	214950	214950	214955	214955	214955
Strainer Sleeve O' Ring	Part No. 118315 Reqd. 1	118315	118185	118185	118201	118201	118201
Seal Bushing	Part No. 118862 Reqd. 1	118862	118960	118960	118972	118972	118972
Seal Bushing O' Ring	Part No. 118171 Reqd. 1	118171	118177	118177	118191	118191	118191
Seal Bushing Screw	Part No. 119222 Reqd. 3	119222	119224	119224	119223	119223	119223
Complete Seal Kit	Part No. 15949 Reqd. ---	15950	15951	115952	15953	15954	15955

CONSISTING OF THE FOLLOWING PARTS

**SEAL KIT**

Copper Gasket	Part No. 118861 Reqd. 4	118871	118871	118969	118969	118969	118969
Ejector Pump Head O' Ring	Part No. 118189 Reqd. 1	118199	118217	118235	118243	118251	118261
Piston O' Ring	Part No. --- Reqd. ---	---	118177	118177	118191	118191	118191
Strainer Sleeve O' Ring	Part No. 118315 Reqd. 1	118315	118185	118185	118201	118201	118201
Seal Bushing O' Ring	Part No. 118171 Reqd. 1	118171	118177	118177	118191	118191	118191

**JUNK RETAINING ASSEMBLY**

Hole Size	4" - 4 1/8"	4 1/4" - 4 1/2"	4 7/8" - 5"	5 1/8" - 5 1/2"	5 5/8" - 6"	6 1/8" - 6 1/2"	6 5/8" - 7"	7 1/8" - 7 1/2"	8 1/8" - 8 3/8"	8 1/2" - 9"	9 1/2" - 9 7/8"	9 1/2" - 10 3/4"	10" - 10 3/4"	10 7/8" - 11 5/8"	11 3/4" - 12"	12 1/4" - 14 1/4"	14 1/2" - 16"	17" - 20"
Junk Retaining Assembly	15956	15957	15958	15959	15960	15961	15962	15963	15964	15965	15966	15967	15968	15969	15970	15971	15972	15973
Outside Diameter	3 5/8"	4 1/16"	4 1/2"	4 7/8"	5 3/8"	5 3/4"	6 1/4"	6 3/4"	7 1/4"	7 7/8"	8 3/16"	8 3/4"	9"	9 7/8"	10 1/8"	11 1/4"	12 1/4"	14 3/4"
Inside Diameter (Catcher & Shoe)	2 3/4"	3"	3 9/32"	3 21/32"	4 1/16"	4 3/8"	4 3/4"	5 1/4"	5 5/8"	6 1/16"	6 1/2"	6 7/8"	7 3/16"	7 3/4"	8 1/16"	9 1/16"	10 1/8"	12 3/8"
Junk Sleeve	Part No. 313414 Reqd. 1	313416	313420	313422	313424	313428	313430	313434	313436	313440	313442	313446	313448	313450	313455	313456	313458	313460
Bearing Retainer**	Part No. --- Reqd. ---	---	---	---	---	118922	118934	118936	118938	118940	118942	118952	118944	118946	118948	118950	118954	118956
Race Ring**	Part No. --- Reqd. ---	---	---	---	---	118933	118935	118937	118939	118941	118943	118945	118947	118949	118951	118955	118957	---
Junk Catcher**	Part No. 118867 Reqd. 2	118868	118872	118873	118874	118875	118877	118879	118881	118883	118885	118887	118889	118891	118893	118895	118897	118899
Short Core Catcher**	Part No. --- Reqd. ---	---	---	---	---	118876	118878	118880	118882	118884	118886	118888	118890	118892	118894	118898	118898	118900
Spacer Ring**	Part No. 119234 Reqd. ---	119235	119236	119237	119238	119239	119240	119241	119242	119243	119244	119245	119246	119247	119248	119249	---	---
Rotary Shoe**	Part No. 313415 Reqd. 1	313417	313421	313423	313425	313429	313431	313435	313437	313441	313443	313447	313449	313451	313454	313457	313459	313461

**REPAIR KITS**

Junk Catcher/Repair Kits*	Part No. 118901 Reqd. 1	118902	118903	118904	118905	118906	118908	118910	118912	118914	118916	118918	118920	118922	118924	118926	118928	118930
Core Catcher Repair Kits*	Part No. --- Reqd. ---	---	---	---	---	118907	118909	118911	118913	118915	118917	118919	118921	118923	118925	118927	118929	118931

\*Recommended Spare Parts for Jet Section Assembly: 10 Sets-Piston Shear Pins; 5 Drop Balls; 1 Drop Ball Seat; 6 Seal Bushing Retainer Screws; 10 Sets-Rubber Nozzle Protectors; 6 complete O-Ring Packing Kits; 1 Ball Seat Wrench.  
 \*\*Recommended Spare Parts for Junk Retaining Assembly: 2 Short Core Catchers; 4 Short Core Catcher Repair Kits; 2 Junk Catchers, 4 Junk Repair Kits.

\*\*\*All Rotary Shoes require two Junk Catchers or a combination of any of the following: Junk Catcher, Short Core Catcher, Spacer Ring, with a Bearing Assembly. Prices for complete Assembly reflect an application of Kutrite on the Rotary Shoes. Special 2- 1/4" and 3- 1/8" O.D. Models are available for junk fishing in Slim Hole, tubingless completion.  
 Ordering Specifications: Specify size and type of Top Sub, if other than shown. Specify if other than Kutrite to be applied to the Rotary Shoe. If Lift Caps are ordered separately, specify thread and whether pin or box.

†Junk Catcher and Core Catcher Repair Kits contain the required number of fingers and torsion springs to permit the complete replacement of these parts in one catcher assembly.