

## PRODUCT LINE

Fishing & Intervention | Junk Catchers

## PRODUCT

Reverse Circulation Junk Baskets



### OVERVIEW

Utilizing the principal of reverse fluid circulation, the Logan Reverse Circulation Junk Basket has been designed to remove all types of small junk objects from the hole. The tool's drain feature eliminates pulling a wet string. Even when the tool is fitted with a magnet insert, reverse circulation is maintained.

### CONSTRUCTION

The Logan Reverse Circulation Junk Basket consists of a lifting sub, top sub, barrel, type A mill shoe, and a single junk catcher. A lifting sub is provided for ease of handling and for storage of the steel drop ball. Assemblies with two junk catchers are available upon request.

For component breakdown of the junk catcher assemblies, refer to the Junk Catcher Assemblies tables.

#### Optional Accessories

Mill shoes for all Reverse Circulation Junk Baskets are available in three types: A, B, and C.

#### Type A Mill Shoe

Conventional hard metal with side wings.

#### Type B Mill Shoe

Dressed with sintered tungsten carbide.

#### Type C Mill Shoe

Flat bottomed and dressed with sintered tungsten carbide.

#### Magnet Inserts

Reverse Circulation Junk Baskets can easily be converted to an effective fishing magnet by replacing the upper and lower junk catcher assemblies with a magnet insert.

#### Finger Shoe

A Finger Shoe may be installed on the bottom of the barrel instead of a mill shoe when junk is lying loose on the bottom of the well or it is too large to pass through the catchers. After the junk basket has engaged the fish, the continued combination of rotating and lowering cause the long fingers of the finger shoe to close beneath the fish and retain it in the barrel.

### OPERATION

The Logan Reverse Circulation Junk Basket is made up to the bottom of the fishing string and lowered to a point within several feet from the bottom of the hole. Begin circulation to wash the hole. Stop circulation and drop the steel ball.

(When the steel ball is dropped into the valve seat, circulation fluid travels outward and downward through the inner passage of the barrel and out through the vents in the lower end. The fluid is then deflected to the center of the tool and up through the return holes in the upper end of the barrel. This reverse fluid circulation carries the junk into the barrel above the junk catcher.)

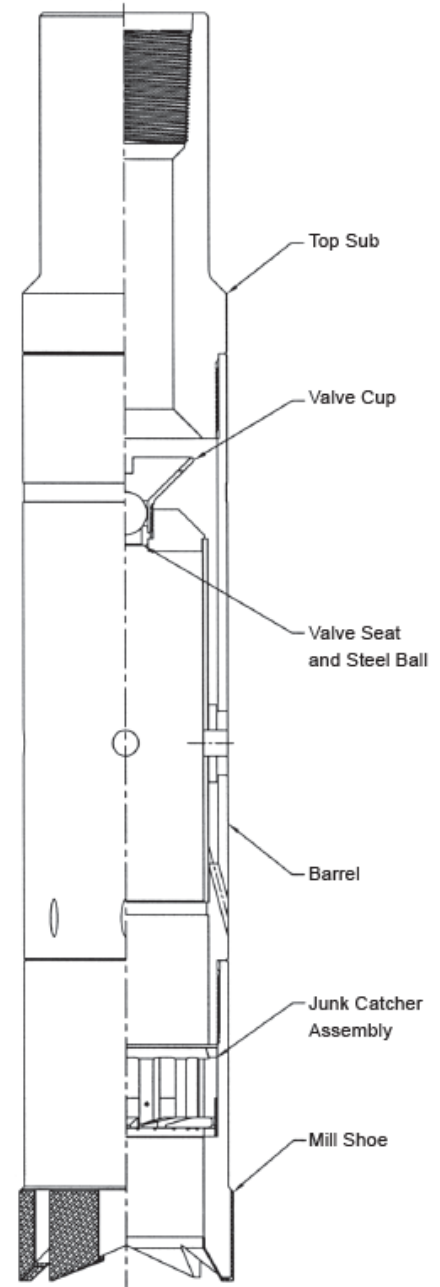
Begin circulation again, slowly rotating while lowering the tool until a 10-inch core has been cut. Stop rotation and circulation and pull the tool from the hole.

#### When ordering, please specify:

- Complete assembly or part number
- Top Sub connection
- OD and type of shoe

#### Recommended Spare Parts:

- 2 x Upper Catchers
- 2 x Lower Catchers
- 2 x Mill Shoes
- 2 x Finger Shoes
- 4 x Finger Shoe Replacements



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Hole Size		3-3/4 to 4	4-1/8 to 4-1/2	4-5/8 to 5	5-1/8 to 5-1/2	5-11/16 to 6	6-1/8 to 6-1/2	6-5/8 to 7-3/8
Barrel OD		3-5/8	4	4-1/2	4-7/8	5-1/8	5-3/4	6-1/4
Maximum Diameter of Fish		2-11/32	2-17/32	3-1/16	3-9/16	3-3/4	4-13/32	4-3/4
<b>Complete Assembly</b>	<b>Logan Part No.</b>	<b>302-363</b>	<b>302-400</b>	<b>302-450</b>	<b>302-487</b>	<b>302-513</b>	<b>302-575</b>	<b>302-625</b>
	Bowen No.	6635	7295	4448	4572	2618	2670	2677
Top Sub	<b>Logan Part No.</b>	<b>D1000</b>	<b>D1001</b>	<b>D1002</b>	<b>D1003</b>	<b>D1004</b>	<b>D1005</b>	<b>D1006</b>
	Bowen No.	6636	7296	4449	4573	2619	2671	2678
Barrel	<b>Logan Part No.</b>	<b>D2000</b>	<b>D2001</b>	<b>D2002</b>	<b>D2003</b>	<b>D2004</b>	<b>D2005</b>	<b>D2006</b>
	Bowen No.	6637	7297	4450	4574	2620	2672	2679
Valve Cup	<b>Logan Part No.</b>	<b>D3000</b>	<b>D3000</b>	<b>D3002</b>	<b>D3002</b>	<b>D3004</b>	<b>D3004</b>	<b>D3004</b>
	Bowen No.	6638	6638	4451	4451	2621	2621	2621
Steel Ball	<b>Logan Part No.</b>	<b>D4000</b>	<b>D4000</b>	<b>D4002</b>	<b>D4002</b>	<b>D4004</b>	<b>D4004</b>	<b>D4004</b>
	Bowen No.	6640	4453	4453	4453	2623	2623	2623
Valve Seat	<b>Logan Part No.</b>	<b>D5000</b>	<b>D5000</b>	<b>D5002</b>	<b>D5002</b>	<b>D5004</b>	<b>D5004</b>	<b>D5004</b>
	Bowen No.	6639	6639	4452	4452	2622	2622	2622
Lifting Sub	<b>Logan Part No.</b>	<b>D6000</b>	<b>D6000</b>	<b>D6002</b>	<b>D6002</b>	<b>D6004</b>	<b>D6004</b>	<b>D6006</b>
	Bowen No.	4568	4568	424	424	425	425	1849
Junk Catcher Assembly	<b>Logan Part No.</b>	<b>600-015</b>	<b>600-016</b>	<b>600-017</b>	<b>600-018</b>	<b>600-019</b>	<b>600-020</b>	<b>600-021</b>
	Bowen No.	21795W	21855W	21780W	21790W	21735W	28349W	21750
Type A Mill Shoe (Hard Faced Mill Teeth)	<b>Logan Part No.</b>	<b>D8000-A</b>	<b>D8001-A</b>	<b>D8002-A</b>	<b>D8003-A</b>	<b>D8004-A</b>	<b>D8005-A</b>	<b>D8006-A</b>
	Bowen No.	6642A	7299A	4455A	4576A	2625A	2676A	2683A
<b>OPTIONAL COMPONENTS</b>								
Type B Mill Shoe (Tungsten Carbide Mill Teeth)	<b>Logan Part No.</b>	<b>D8000-B</b>	<b>D8001-B</b>	<b>D8002-B</b>	<b>D8003-B</b>	<b>D8004-B</b>	<b>D8005-B</b>	<b>D8006-B</b>
	Bowen No.	6642B	7299B	4455B	4576B	2625B	2676B	2683B
Type C Mill Shoe (Tungsten Carbide Faced)	<b>Logan Part No.</b>	<b>D8000-C</b>	<b>D8001-C</b>	<b>D8002-C</b>	<b>D8003-C</b>	<b>D8004-C</b>	<b>D8005-C</b>	<b>D8006-C</b>
	Bowen No.	6642C	7299C	4455C	4576C	2625C	2676C	2683C
Finger Shoe	<b>Logan Part No.</b>	<b>600-100</b>	<b>600-101</b>	<b>600-102</b>	<b>600-103</b>	<b>600-104</b>	<b>600-105</b>	<b>600-106</b>
	Bowen No.	6643	7300	4456	4577	22208	22218	2739
	Max Dia. of Fish	3-1/4	3-3/4	4-1/16	4-1/2	4-3/4	5-17/32	5-29/32
Body	<b>Logan Part No.</b>	<b>D7000</b>	<b>D7001</b>	<b>D7002</b>	<b>D7003</b>	<b>D7004</b>	<b>D7005</b>	<b>D7006</b>
	Bowen No.	6643-2	7300-2	4456-2	4577-2	22208-2	22218-2	2739-2
Replacement	<b>Logan Part No.</b>	<b>D10000</b>	<b>D10001</b>	<b>D10002</b>	<b>D10003</b>	<b>D10004</b>	<b>D10005</b>	<b>D10006</b>
	Bowen No.	6643-1	7300-1	4456-1	4577-1	22208-1	22218-1	2739-1
Magnet Inserts (Complete Assembly)	<b>Logan Part No.</b>	<b>600-045</b>	<b>600-046</b>	<b>600-047</b>	<b>600-048</b>	<b>600-049</b>	<b>600-050</b>	<b>600-051</b>
	Bowen No.	61836	61848	61840	61850	61852	61866	61872
Magnetic Assembly	<b>Logan Part No.</b>	<b>600-068</b>	<b>600-069</b>	<b>600-069</b>	<b>600-070</b>	<b>600-070</b>	<b>600-071</b>	<b>600-072</b>
	Bowen No.	61810	61812	61812	61814	61814	61816	61818
Adapter	<b>Logan Part No.</b>	<b>E4028</b>	<b>E4029</b>	<b>E4016</b>	<b>E4030</b>	<b>E4003</b>	<b>E4018</b>	<b>E4019</b>
	Bowen No.	61837	61849	61841	61851	61853	61867	61873

Innovex reserves the right to change or discontinue designs without prior notice.  
 For component breakdown of the junk catcher assemblies, refer to Junk Catcher Assemblies chart.  
 For type A, B, or C shoes: unless specified, shoes will be furnished with the same O.D. as minimum hole size shown.  
 Finger shoe replacements are furnished with the same O.D. as standard shoe unless otherwise specified.

**When ordering, please specify:**

Complete assembly or part number  
 Top Sub connection  
 O.D. and type of shoe

**Recommended Spare Parts:**

2 x Upper Catchers  
 2 x Lower Catchers  
 2 x Mill Shoes  
 2 x Finger Shoes  
 4 x Finger Shoe Replacements



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Reverse Circulation Junk Baskets



Hole Size		7-1/2 to 8-1/4	8-3/8 to 9-1/2	9-5/8 to 10-5/8	10-3/4 to 11-5/8	11-3/4 to 12-1/2	12-5/8 to 13-5/8	13-3/4 to 16
Barrel OD		7	7-7/8	9-1/8	10-1/8	11	11-7/8	13
Maximum Diameter of Fish		5-3/16	6-1/16	7-1/16	7-11/16	8-5/16	8-11/16	9-7/8
<b>Complete Assembly</b>	<b>Logan Part No.</b>	<b>302-700</b>	<b>302-787</b>	<b>302-913</b>	<b>302-1013</b>	<b>302-1100</b>	<b>302-1187</b>	<b>302-1300</b>
	Bowen No.	2554	2567	2659	2684	2690	2696	2702
Top Sub	<b>Logan Part No.</b>	<b>D1007</b>	<b>D1008</b>	<b>D1009</b>	<b>D1010</b>	<b>D1011</b>	<b>D1012</b>	<b>D1013</b>
	Bowen No.	2493	2568	2660	2685	2690	2696	2703
Barrel	<b>Logan Part No.</b>	<b>D2007</b>	<b>D2008</b>	<b>D2009</b>	<b>D2010</b>	<b>D2011</b>	<b>D2012</b>	<b>D2013</b>
	Bowen No.	2555	2569	2661	2686	2692	2698	2704
Valve Cup	<b>Logan Part No.</b>	<b>D3007</b>	<b>D3007</b>	<b>D3009</b>	<b>D3009</b>	<b>D3009</b>	<b>D3009</b>	<b>D3009</b>
	Bowen No.	2570	2570	2662	2662	2662	2662	2662
Steel Ball	<b>Logan Part No.</b>	<b>D4007</b>	<b>D4007</b>	<b>D4009</b>	<b>D4009</b>	<b>D4009</b>	<b>D4009</b>	<b>D400</b>
	Bowen No.	2572	2572	2665	2665	2665	2665	2665
Valve Seat	<b>Logan Part No.</b>	<b>D5007</b>	<b>D5007</b>	<b>D5009</b>	<b>D5009</b>	<b>D5009</b>	<b>D5009</b>	<b>D5009</b>
	Bowen No.	2571	2571	2663	2663	2663	2663	2663
Lifting Sub	<b>Logan Part No.</b>	<b>D6006</b>	<b>D6008</b>	<b>D6009</b>	<b>D6009</b>	<b>D6009</b>	<b>D6009</b>	<b>D6009</b>
	Bowen No.	18496	426	427	427	427	427	427
Junk Catcher Assembly	<b>Logan Part No.</b>	<b>600-022</b>	<b>600-023</b>	<b>600-024</b>	<b>500-019</b>	<b>600-026</b>	<b>600-027</b>	<b>600-028</b>
	Bowen No.	21725W	18725W	14633W	18945W	21760W	21840W	21770W
Type A Mill Shoe (Hard Faced Mill Teeth)	<b>Logan Part No.</b>	<b>D8007-A</b>	<b>D8008-A</b>	<b>D8009-A</b>	<b>D8010-A</b>	<b>D8011-A</b>	<b>D8012-A</b>	<b>D8013-A</b>
	Bowen No.	2556A	2574A	2668A	2689A	2695A	2701A	2707A
<b>OPTIONAL COMPONENTS</b>								
Type B Mill Shoe (Tungsten Carbide Mill Teeth)	<b>Logan Part No.</b>	<b>D8007-B</b>	<b>D8008-B</b>	<b>D8009-B</b>	<b>D8010-B</b>	<b>D8011-B</b>	<b>D8012-B</b>	<b>D8013-B</b>
	Bowen No.	2556B	2574B	2668B	2689B	2695B	2701B	2707B
Type C Mill Shoe (Tungsten Carbide Faced)	<b>Logan Part No.</b>	<b>D8007-C</b>	<b>D8008-C</b>	<b>D8009-C</b>	<b>D8010-C</b>	<b>D8011-C</b>	<b>D8012-C</b>	<b>D8013-C</b>
	Bowen No.	2556C	2574C	2668C	2689C	2695C	2701C	2707C
Finger Shoe	<b>Logan Part No.</b>	<b>600-107</b>	<b>600-108</b>	<b>600-109</b>	<b>600-110</b>	<b>600-111</b>	<b>600-112</b>	<b>600-113</b>
	Bowen No.	2740	2741	2742	2743	2744	2745	2746
	Max Dia. of Fish	6-3/4	7-23/32	9	9-5/16	11	11-7/8	13
Body	<b>Logan Part No.</b>	<b>D7007</b>	<b>D7008</b>	<b>D7009</b>	<b>D7010</b>	<b>D7011</b>	<b>D7012</b>	<b>D7013</b>
	Bowen No.	2740-2	2741-2	2742-2	2743-2	2744-2	2745-2	2746-2
Replacement	<b>Logan Part No.</b>	<b>D10007</b>	<b>D10008</b>	<b>D10009</b>	<b>D10010</b>	<b>D10011</b>	<b>D10012</b>	<b>D10013</b>
	Bowen No.	2740-1	2741-1	2742-1	2743-1	2744-1	2745-1	2746-1
Magnet Inserts (Complete Assembly)	<b>Logan Part No.</b>	<b>600-052</b>	<b>600-053</b>	<b>600-054</b>	<b>600-055</b>	<b>600-056</b>	<b>600-057</b>	<b>600-058</b>
	Bowen No.	61947	61953	61965	61963	61973	61975	61983
Magnetic Assembly	<b>Logan Part No.</b>	<b>600-073</b>	<b>600-074</b>	<b>600-075</b>	<b>600-075</b>	<b>600-076</b>	<b>600-076</b>	<b>600-077</b>
	Bowen No.	61820	61822	61826	61826	61828	61828	61830
Adapter	<b>Logan Part No.</b>	<b>E4020</b>	<b>E4021</b>	<b>E4022</b>	<b>E4023</b>	<b>E4024</b>	<b>E4025</b>	<b>E4026</b>
	Bowen No.	61948	61954	61966	61968	61974	61976	61982

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 For component breakdown of the junk catcher assemblies, refer to Junk Catcher Assemblies chart.  
 For type A, B, or C shoes: unless specified, shoes will be furnished with the same O.D. as minimum hole size shown.  
 Finger shoe replacements are furnished with the same O.D. as standard shoe unless otherwise specified.

**When ordering, please specify:**

Complete assembly or part number  
 Top Sub connection  
 O.D. and type of shoe

**Recommended Spare Parts:**

2 x Upper Catchers  
 2 x Lower Catchers  
 2 x Mill Shoes  
 2 x Finger Shoes  
 4 x Finger Shoe Replacements



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Hole Size		16 to 17-1/2					
Barrel OD		15					
Maximum Diameter of Fish		11-1/8					
<b>Complete Assembly</b>	<b>Logan Part No.</b>	<b>302-1500</b>					
	Bowen No.	2708					
Top Sub	<b>Logan Part No.</b>	<b>D1014</b>					
	Bowen No.	2709					
Barrel	<b>Logan Part No.</b>	<b>D2014</b>					
	Bowen No.	2710					
Valve Cup	<b>Logan Part No.</b>	<b>D3009</b>					
	Bowen No.	2662					
Steel Ball	<b>Logan Part No.</b>	<b>D4009</b>					
	Bowen No.	2665					
Valve Seat	<b>Logan Part No.</b>	<b>D5009</b>					
	Bowen No.	2663					
Lifting Sub	<b>Logan Part No.</b>	<b>D6009</b>					
	Bowen No.	427					
Junk Catcher Assembly	<b>Logan Part No.</b>	<b>600-029</b>					
	Bowen No.	21775W					
Type A Mill Shoe (Hard Faced Mill Teeth)	<b>Logan Part No.</b>	<b>D8014-A</b>					
	Bowen No.	2713A					
<b>OPTIONAL COMPONENTS</b>							
Type B Mill Shoe (Tungsten Carbide Mill Teeth)	<b>Logan Part No.</b>	<b>D8014-B</b>					
	Bowen No.	2713B					
Type C Mill Shoe (Tungsten Carbide Faced)	<b>Logan Part No.</b>	<b>D8014-C</b>					
	Bowen No.	2713C					
Finger Shoe	<b>Logan Part No.</b>	<b>600-114</b>					
	Bowen No.	2747					
	Max Dia. of Fish	15-1/4					
Body	<b>Logan Part No.</b>	<b>D7007</b>					
	Bowen No.	2747-2					
Replacement	<b>Logan Part No.</b>	<b>D10007</b>					
	Bowen No.	2747-1					
Magnet Inserts (Complete Assembly)	<b>Logan Part No.</b>	<b>600-059</b>					
	Bowen No.	61985					
Magnetic Assembly	<b>Logan Part No.</b>	<b>600-078</b>					
	Bowen No.	61832					
Adapter	<b>Logan Part No.</b>	<b>E4027</b>					
	Bowen No.	61986					

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**When ordering, please specify:**

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 4 x Finger Shoe Replacements

