

**SERIES 150 RELEASING & CIRCULATING OVERSHOTS**

**Overview**

The Logan Series 150 Releasing and Circulating Overshot consists of three main external parts: a Top Sub, a Bowl, and a Guide. Internal parts: a Top Sub, a Bowl, and a Guide. Internal catch and pack-off parts are determined by the diameter of the fish. Each assembly is designed for a maximum catch diameter. A Spiral Grapple, Spiral Grapple Control, and a Type A Packer are used in the overshot bowl when the diameter of the fish is near the published maximum catch diameter of the overshot. When the diameter of the fish is considerably below the maximum catch diameter of the overshot (usually 1/2"), a Basket Grapple, a Mill Control Packer, or Basket Grapple Control are used in the overshot bowl.

**Operation**

In fishing operations, the Logan Series 150 Releasing and Circulating Overshot will function in the same manner, whether using a Spiral or Basket Grapple.

The Logan Series 150 Releasing and Circulating Overshot requires right-hand rotation only, during both engaging and releasing operations. The right-hand-only rotation feature eliminates the possibility of accidental left-hand unscrewing.

**Catching the Fish**

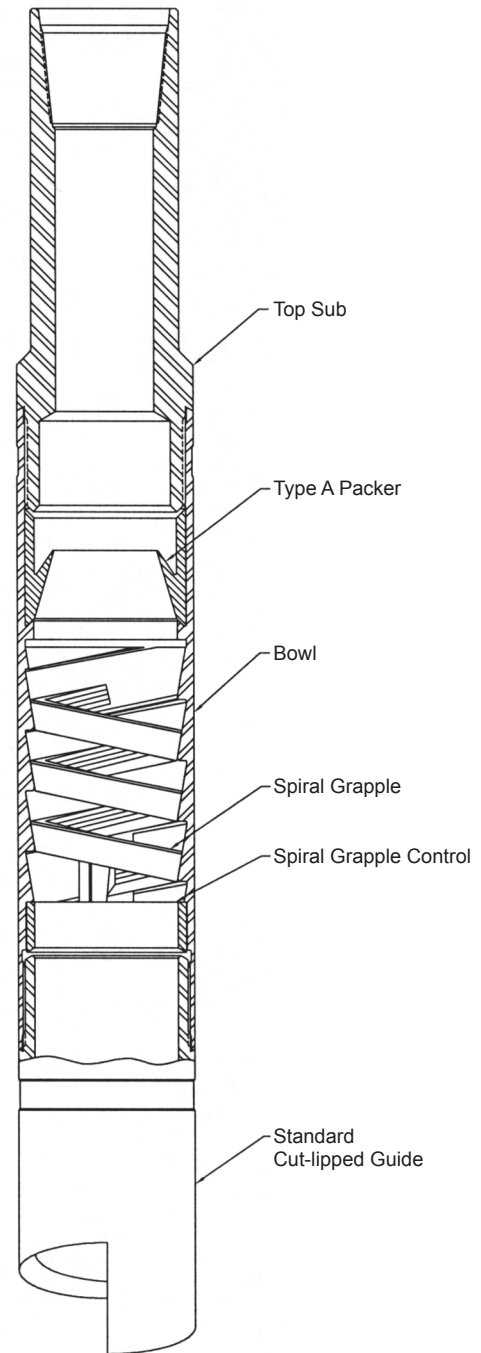
The Logan Series 150 Releasing and Circulating Overshot assembly is rotated to the right and lowered as the fish enters the expandable grapple. With the fish in the grapple, rotation ceases and an upward pull is exerted to fully capture the fish.

**Releasing the Fish**

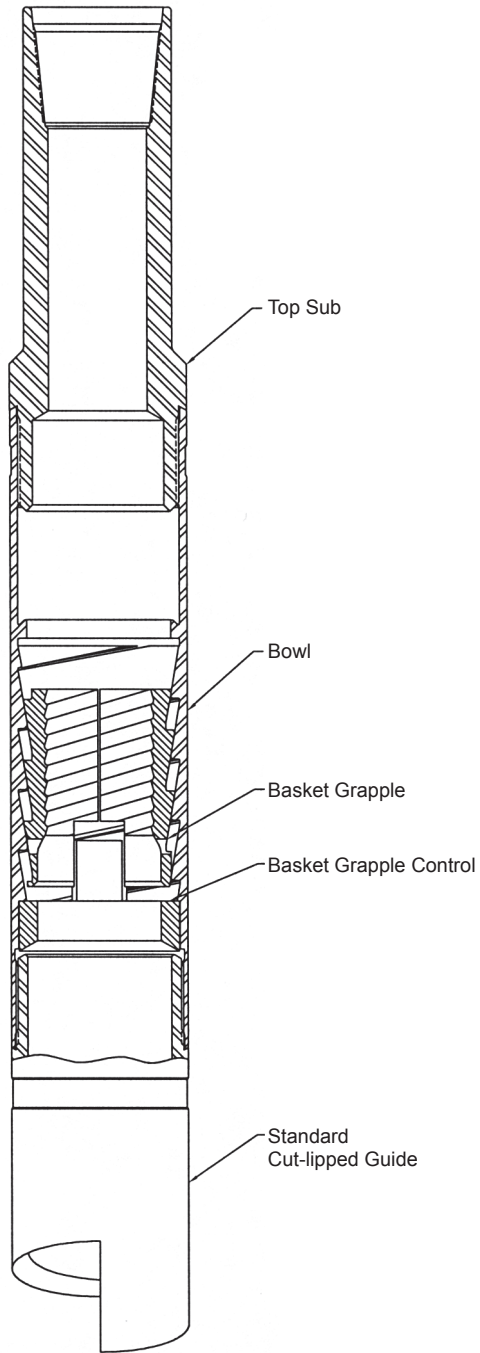
A sharp downward force (bump) is applied to break the hold of the grapple within the bowl. The Logan Series 150 Releasing and Circulating Overshot is then rotated to the right and slowly elevated to release the grapple from the fish.

**When ordering, please specify:**

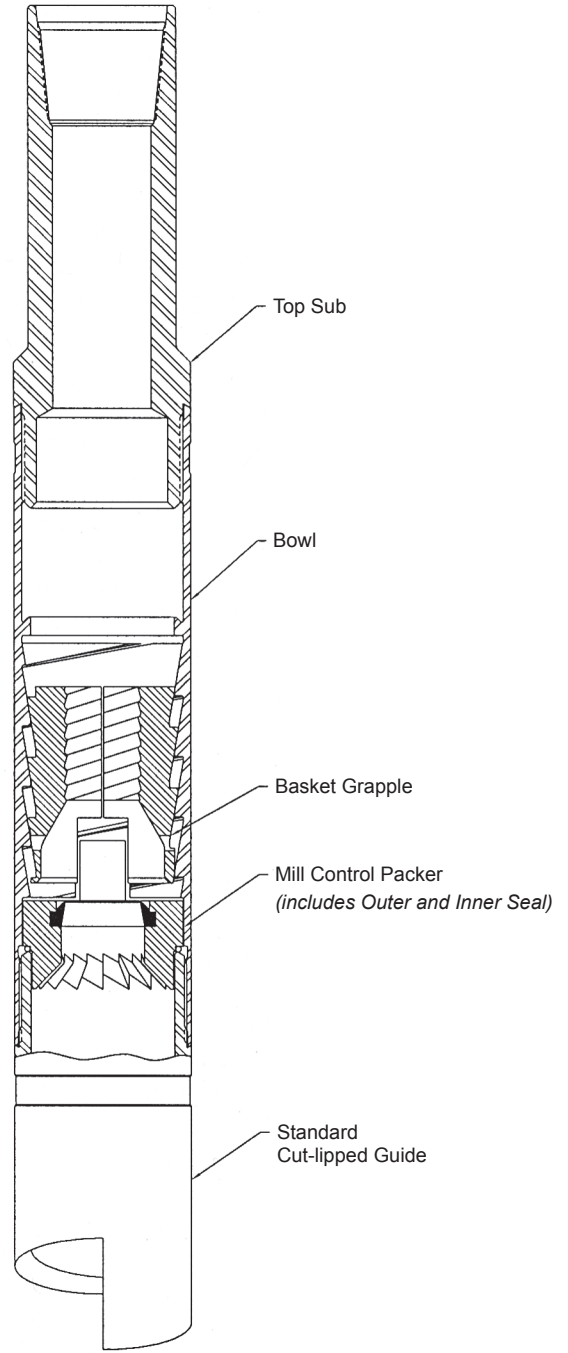
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- (2) Top Sub connection
- (3) Size and type of fish to be caught
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**Spiral Grapple with Spiral Grapple Control and Type A Packer**



**Basket Grapple  
with Basket Grapple Control**



**Basket Grapple  
with Mill Control Packer**

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<b>MAXIMUM CATCH SIZE (Spiral)</b>		2	2-1/8	2-3/8	2-3/8	2-3/8	2-1/2	2-1/2
<b>MAXIMUM CATCH SIZE (Basket)</b>		1-3/4	1-3/4	2	1-7/8	1-7/8	2	2
<b>OVERSHOT O.D.</b>		2-5/16	2-5/8	3-1/8	3-1/2	4-1/8	3-3/8	3-5/8
<b>TYPE</b>		SH	SH	XSH	FS	FS	SH	FS
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-231-D</b>	<b>150-263-D</b>	<b>150-313-E</b>	<b>150-350-A</b>	<b>150-414-A</b>	<b>150-338-D</b>	<b>150-363-A</b>
	Bowen No.	B-8919	C-10199	9305	C-4741	1443	C-4623	C-5080
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A0950</b>	<b>A1000</b>	<b>A1001</b>	<b>A1002</b>	<b>A10025</b>	<b>A1003</b>	<b>A1004</b>
	Bowen No.	A-8920	A-10200	9311	B-4742	1445	A-5083	A-5081
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A1950</b>	<b>A2000</b>	<b>A2001</b>	<b>A2002</b>	<b>A20025</b>	<b>A2003</b>	<b>A2004</b>
	Bowen No.	B-8921	B-10201	9306	B-4743	1446	B-5088	B-5082
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>B7008</b>	<b>A3000</b>	<b>A3001</b>	<b>A3002</b>	<b>A30025</b>	<b>A3003</b>	<b>A3004</b>
	Bowen No.	9404	A-10206	9312	A-4745	1450	A-5093	A-5087

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4950</b>	<b>A4000</b>	<b>A4001</b>	<b>A4002</b>	<b>A40025</b>	<b>A4003</b>	<b>A4004</b>
	Bowen No.	9407	B-10202	9309	L-1453	1453	B-5089	B-3395
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>B3008</b>	<b>A5000</b>	<b>A5001</b>	<b>A5002</b>	<b>A50025</b>	<b>A5003</b>	<b>A5004</b>
	Bowen No.	9403	B-10204	9307	B-782	1448	B-5091	B-5085
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6950</b>	<b>A6000</b>	<b>A6001</b>	<b>A6002</b>	<b>A60025</b>	<b>A6003</b>	<b>A6004</b>
	Bowen No.	9405	A-10205	9308	B-783	1449	A-5092	A-5086

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>B5008</b>	<b>A7000</b>	<b>A7001</b>	<b>A7002</b>	<b>A70025</b>	<b>A7003</b>	<b>A7004</b>
	Bowen No.	9403	B-10204	9307	B-782	1448	B-5091	B-5085
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>B6008</b>	<b>A8000</b>	<b>A8001</b>	<b>A8002</b>	<b>A80025</b>	<b>A8003</b>	<b>A8004</b>
	Bowen No.	9405	A-10205	9308	B-783	1449	A-5092	A-5086
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9950</b>	<b>A9000</b>	<b>A9001</b>	<b>A9002</b>	<b>A90025</b>	<b>A9003</b>	<b>A9004</b>
	Bowen No.	9407M	B-10202-R	9309-R	L-1453-R	1453-R	B-5089-R	B-3395-R

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### Logan Coding

A = FS Full Strength – For all pulling torsional and jarring strain  
 B = XFS Extra Full Strength – For extreme abuse  
 C = SFS Semi Full Strength – Maximum strength for special hole conditions  
 D = SH Slim Hole – For heavy pulling strains only  
 E = XSH Extra Slim Hole – For pick up jobs only

### When ordering, please specify:

- (1) Complete assembly or part number
- (2) Top Sub connection
- (3) Size and type of fish to be caught
- (4) O.D., if other than standard

### Recommended Spare Parts:

- (1) Spiral: 3 Packers, 2 Grapples, for each size, and 1 Control
- (2) Basket: 2 Grapples, 2 Control Packers or Mill Control Packers for each size
- (3) Mill Control Packers: 3 Inner Seals and Outer Seals

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<b>MAXIMUM CATCH SIZE (Spiral)</b>		2-7/8	3-1/16	3-1/8	2-7/8	2-7/8	3-1/16	3-1/16
<b>MAXIMUM CATCH SIZE (Basket)</b>		2-1/2	2-11/16	2-5/8	2-3/8	2-3/8	2-9/16	2-9/16
<b>OVERSHOT O.D.</b>		3-5/8	3-3/4	3-7/8	3-3/4	4	3-15/16	4-3/16
<b>TYPE</b>		XSH	SH	SH	SH	FS	SH	FS
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-363-E</b>	<b>150-375-D</b>	<b>150-388-D</b>	<b>150-376-D</b>	<b>150-400-A</b>	<b>150-393-D</b>	<b>150-419-A</b>
	<b>Bowen No.</b>	9270	37585	C-1835	C-1827	C-4736	C-5101	C-5098
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A1005</b>	<b>A10055</b>	<b>A10056</b>	<b>A10057</b>	<b>A1006</b>	<b>A1007</b>	<b>A1008</b>
	<b>Bowen No.</b>	9276	37586	A-1842	A-1834	A-4737	A-5102	A-5099
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A2005</b>	<b>A20055</b>	<b>A20056</b>	<b>A20057</b>	<b>A2006</b>	<b>A2007</b>	<b>A2008</b>
	<b>Bowen No.</b>	9271	37587	B-1836	B-1828	B-4738	B-5103	B-5100
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3005</b>	<b>A30055</b>	<b>A30056</b>	<b>A30057</b>	<b>A3006</b>	<b>A3007</b>	<b>A3008</b>
	<b>Bowen No.</b>	9275	37592	A-1841	A-1833	A-4740	A-3598	A-4405

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4005</b>	<b>A40055</b>	<b>A40056</b>	<b>A40057</b>	<b>A4006</b>	<b>A4007</b>	<b>A4008</b>
	<b>Bowen No.</b>	8550	37588	B-1839	A-1831	L-809	B-3594	L-7090
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5005</b>	<b>A50055</b>	<b>A50056</b>	<b>A50057</b>	<b>A5006</b>	<b>A5007</b>	<b>A5008</b>
	<b>Bowen No.</b>	9272	37590	B-1837	A-1829	M-805	B-3596	B-4403
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6005</b>	<b>A60055</b>	<b>A60056</b>	<b>A60057</b>	<b>A6006</b>	<b>A6007</b>	<b>A6008</b>
	<b>Bowen No.</b>	9273	37591	A-1838	A-1830	M-806	B-3597	B-4403

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7005</b>	<b>A70055</b>	<b>A70056</b>	<b>A70057</b>	<b>A7006</b>	<b>A7007</b>	<b>A7008</b>
	<b>Bowen No.</b>	9272	37590	B-1837	A-1829	M-805	B-3596	B-4403
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8005</b>	<b>A80055</b>	<b>A80056</b>	<b>A80057</b>	<b>A8006</b>	<b>A8007</b>	<b>A8008</b>
	<b>Bowen No.</b>	9273	37591	A-1838	A-1830	M-806	B-3597	B-4404
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9005</b>	<b>A90055</b>	<b>A90056</b>	<b>A90057</b>	<b>A9006</b>	<b>A9007</b>	<b>A9008</b>
	<b>Bowen No.</b>	8550-R	37588-R	B-1839-R	A-1831-R	L-809-RS	B-3594-R	L-7090-R

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<b>MAXIMUM CATCH SIZE (Basket)</b>		2-5/8	2-5/8	2-5/8	2-5/8	2-3/4	2-3/4	2-3/4
<b>OVERSHOT O.D.</b>		4	4-1/8	4-1/8	4-1/4	4-1/8	4-3/8	4-3/8
<b>TYPE</b>		SH	FS	FS	FS	SH	FS	FS
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-400-D</b>	<b>150-413-A</b>	<b>150-412-A</b>	<b>150-425-A</b>	<b>150-413-D</b>	<b>150-437-A</b>	<b>150-438-A</b>
	<b>Bowen No.</b>	C-5104	9105	8220	C-4822	C-5115	9630	C-5112
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A1009</b>	<b>A1010</b>	<b>A10105</b>	<b>A1011</b>	<b>A1012</b>	<b>A10125</b>	<b>A1013</b>
	<b>Bowen No.</b>	A-5105	9106	8221	A-4823	A-5116	9631	A-5113
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A2009</b>	<b>A2010</b>	<b>A20105</b>	<b>A2011</b>	<b>A2012</b>	<b>A20125</b>	<b>A2013</b>
	<b>Bowen No.</b>	B-5106	9107	8223	B-4824	B-5117	9632	B-5114
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3009</b>	<b>A3010</b>	<b>A3010</b>	<b>A3011</b>	<b>A3012</b>	<b>A30125</b>	<b>A3013</b>
	<b>Bowen No.</b>	A-5111	1746	1746	A-793	A-5122	1519	A-3207

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4009</b>	<b>A4010</b>	<b>A4010</b>	<b>A4011</b>	<b>A4012</b>	<b>A40125</b>	<b>A4013</b>
	<b>Bowen No.</b>	B-5107	809	809	L-7090	B-5118	1517	L-1517
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5009</b>	<b>A5010</b>	<b>A5010</b>	<b>A5011</b>	<b>A5012</b>	<b>A50125</b>	<b>A5013</b>
	<b>Bowen No.</b>	B-5109	1741	1741	B-791	B-5120	1518	B-3205
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6009</b>	<b>A6010</b>	<b>A6010</b>	<b>A6011</b>	<b>A6012</b>	<b>A60125</b>	<b>A6013</b>
	<b>Bowen No.</b>	A-5110	1747	1747	B-792	A-5121	1520	B-3206

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7009</b>	<b>A7010</b>	<b>A7010</b>	<b>A7011</b>	<b>A7012</b>	<b>A70125</b>	<b>A7013</b>
	<b>Bowen No.</b>	B-5109	1741	1741	B-791	B-5120	1518	B-3205
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8009</b>	<b>A8010</b>	<b>A8010</b>	<b>A8011</b>	<b>A8012</b>	<b>A80125</b>	<b>A8013</b>
	<b>Bowen No.</b>	B-5110	1747	1747	B-792	A-5121	1520	B-3206
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9009</b>	<b>A9010</b>	<b>A9010</b>	<b>A9011</b>	<b>A9012</b>	<b>A90125</b>	<b>A9013</b>
	<b>Bowen No.</b>	B-5107-R	809-R	809-R	L-7090-R	B-5118-R	1517-R	L-1517-R

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<b>MAXIMUM CATCH SIZE (Spiral)</b>		3-3/8	3-3/8	3-3/8	3-3/8	3-1/2	3-1/2	3-1/2
<b>MAXIMUM CATCH SIZE (Basket)</b>		2-7/8	2-7/8	2-7/8	2-7/8	2-7/8	2-7/8	2-7/8
<b>OVERSHOT O.D.</b>		3-7/8	4-1/4	4-3/8	4-1/2	4-3/8	4-13/16	4-1/2
<b>TYPE</b>		XSH	SH	FS	FS	SH	FS	SH
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-388-E</b>	<b>150-425-D</b>	<b>150-4375-A</b>	<b>150-450-A</b>	<b>150-438-D</b>	<b>150-482-A</b>	<b>150-450-D</b>
	<b>Bowen No.</b>	21300	C-5126	9635	C-5123	C-4619	C-4732	C-3793
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A10135</b>	<b>A1014</b>	<b>A10145</b>	<b>A1015</b>	<b>A1016</b>	<b>A1017</b>	<b>A10161</b>
	<b>Bowen No.</b>	21301	A-5127	9636	A-5124	A-4620	A-4733	A-3794
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A20135</b>	<b>A2014</b>	<b>A20145</b>	<b>A2015</b>	<b>A2016</b>	<b>A2017</b>	<b>A20161</b>
	<b>Bowen No.</b>	21302	B-5128	9637	B-5125	B-4621	B-4734	A-3795
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A30135</b>	<b>A3014</b>	<b>A30145</b>	<b>A3015</b>	<b>A3016</b>	<b>A3017</b>	<b>A30161</b>
	<b>Bowen No.</b>	21307	A-4629	4197	A-3361	A-4622	A-4735	A-3609

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A40135</b>	<b>A4014</b>	<b>A40145</b>	<b>A4015</b>	<b>A4016</b>	<b>A4017</b>	<b>A4015</b>
	<b>Bowen No.</b>	21303	B-4625	4185	L-6515	L-7065	L-168	L-6515
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A50135</b>	<b>A5014</b>	<b>A50145</b>	<b>A5015</b>	<b>A5016</b>	<b>A5017</b>	<b>A5016</b>
	<b>Bowen No.</b>	21305	B-4627	4195	B-3359	B-3607	M-164	B-3607
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A60135</b>	<b>A6014</b>	<b>A60145</b>	<b>A6015</b>	<b>A6016</b>	<b>A6017</b>	<b>A6016</b>
	<b>Bowen No.</b>	21306	B-4628	4196	B-3360	B-3608	M-185	B-3608

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A70135</b>	<b>A7014</b>	<b>A70145</b>	<b>A7015</b>	<b>A7016</b>	<b>A7017</b>	<b>A7016</b>
	<b>Bowen No.</b>	21305	B-4627	4195	B-3359	B-3607	M-164	B-3607
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A80135</b>	<b>A8014</b>	<b>A80145</b>	<b>A8015</b>	<b>A8016</b>	<b>A8017</b>	<b>A8016</b>
	<b>Bowen No.</b>	21306	B-4628	4196	B-3360	B-3608	M-185	B-3608
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A90135</b>	<b>A9014</b>	<b>A90145</b>	<b>A9015</b>	<b>A9016</b>	<b>A9017</b>	<b>A9015</b>
	<b>Bowen No.</b>	21303-R	B-4625-R	4185-R	L-6515-R	L-7065-R	L-168-R	L-6515-R

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- (2) Basket: 2 Grapples, 2 Control Packers or Mill Control Packers for each size
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## SERIES 150 RELEASING & CIRCULATING OVERSHOTS

<b>MAXIMUM CATCH SIZE (Spiral)</b>		3-21/32	3-21/32	3-21/32	3-21/32	3-3/4	3-3/4	3-13/16
<b>MAXIMUM CATCH SIZE (Basket)</b>		3-1/8	3-1/8	3.220	3-1/8	3-7/32	3-1/4	3-5/16
<b>OVERSHOT O.D.</b>		4-1/2	4-9/16	4-11/16	5	4-5/8	4-11/16	4-7/16
<b>TYPE</b>		SH	SH	SFS	FS	SH	SFS	SH
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-450-D</b>	<b>150-456-D</b>	<b>150-469-C</b>	<b>150-500-A</b>	<b>150-463-D</b>	<b>150-468-C</b>	<b>150-444-D</b>
	<b>Bowen No.</b>	17201	C-5151	9109	C-5148	C-5129	9120	C-9773
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A10175</b>	<b>A1018</b>	<b>A1019</b>	<b>A1020</b>	<b>A1021</b>	<b>A1019</b>	<b>A10217</b>
	<b>Bowen No.</b>	17202	A-5152	9110	A-5149	A-5130	9110	A-9774
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A20175</b>	<b>A2018</b>	<b>A2019</b>	<b>A2020</b>	<b>A2021</b>	<b>A20215</b>	<b>A20217</b>
	<b>Bowen No.</b>	17203	B-5153	9111	B-5150	B-5131	9121	B-9775
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A30175</b>	<b>A3018</b>	<b>A3019</b>	<b>A3020</b>	<b>A3021</b>	<b>A30215</b>	<b>A30217</b>
	<b>Bowen No.</b>	17204	A-4341	6667	A-4412	A-5135	9125	A-9779

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4018</b>	<b>A4018</b>	<b>A4019</b>	<b>A4020</b>	<b>A4021</b>	<b>A40215</b>	<b>A40217</b>
	<b>Bowen No.</b>	L-6665	L-6665	6665	B-3219	B-5538	9122	L-6163
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5018</b>	<b>A5018</b>	<b>A5019</b>	<b>A5020</b>	<b>A5021</b>	<b>A50215</b>	<b>A50217</b>
	<b>Bowen No.</b>	B-4339	B-4339	6662	B-4410	B-5133	9123	B-9777
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6018</b>	<b>A6018</b>	<b>A6019</b>	<b>A6020</b>	<b>A6021</b>	<b>A60215</b>	<b>A60217</b>
	<b>Bowen No.</b>	B-4340	B-4340	6674	B-4411	A-5134	9124	A-9778

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7018</b>	<b>A7018</b>	<b>A7019</b>	<b>A7020</b>	<b>A7021</b>	<b>A70215</b>	<b>A70217</b>
	<b>Bowen No.</b>	B-4339	B-4339	6662	B-4410	B-5133	9123	B-9777
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8018</b>	<b>A8018</b>	<b>A8019</b>	<b>A8020</b>	<b>A8021</b>	<b>A80215</b>	<b>A80217</b>
	<b>Bowen No.</b>	B-4340	B-4340	6674	B-4411	A-5134	9124	A-9778
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9018</b>	<b>A9018</b>	<b>A9019</b>	<b>A9020</b>	<b>A9021</b>	<b>A90215</b>	<b>A90217</b>
	<b>Bowen No.</b>	L-6665-R	L-6665-R	6665-R	B-3219-R	B-5538-R	9122-R	L-6163-R

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A = FS	Full Strength – For all pulling torsional and jarring strain
B = XFS	Extra Full Strength – For extreme abuse
C = SFS	Semi Full Strength – Maximum strength for special hole conditions
D = SH	Slim Hole – For heavy pulling strains only
E = XSH	Extra Slim Hole – For pick up jobs only

### When ordering, please specify:

- (1) Complete assembly or part number
- (2) Top Sub connection
- (3) Size and type of fish to be caught
- (4) O.D., if other than standard

### Recommended Spare Parts:

- (1) Spiral: 3 Packers, 2 Grapples, for each size, and 1 Control
- (2) Basket: 2 Grapples, 2 Control Packers or Mill Control Packers for each size
- (3) Mill Control Packers: 3 Inner Seals and Outer Seals

## SERIES 150 RELEASING & CIRCULATING OVERSHOTS

<b>MAXIMUM CATCH SIZE (Spiral)</b>		3-3/4	3-7/8	3-7/8	4	4	4-1/8	4-1/8
<b>MAXIMUM CATCH SIZE (Basket)</b>		3-1/8	3-1/4	3-3/8	3-1/2	3-3/8	3-5/8	3-1/2
<b>OVERSHOT O.D.</b>		5-1/8	5-1/4	4-5/8	4-7/8	5-5/16	5	5-7/16
<b>TYPE</b>		FS	FS	SH	SH	FS	SH	FS
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-513-A</b>	<b>150-525-A</b>	<b>150-462-D</b>	<b>150-488-D</b>	<b>150-531-A</b>	<b>150-500-D</b>	<b>150-544-A</b>
	<b>Bowen No.</b>	C-4686	9515	C-6230	C-5154	C-5142	C-5428	C-5425
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A1022</b>	<b>A1023</b>	<b>A10235</b>	<b>A1024</b>	<b>A1025</b>	<b>A1026</b>	<b>A1027</b>
	<b>Bowen No.</b>	A-4687	9516	A-6231	A-5155	A-5143	A-5429	A-5426
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A2022</b>	<b>A2023</b>	<b>A20235</b>	<b>A2024</b>	<b>A2025</b>	<b>A2026</b>	<b>A2027</b>
	<b>Bowen No.</b>	B-4688	9517	B-6232	B-5156	B-5144	B-5430	B-5427
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3022</b>	<b>A3023</b>	<b>A30235</b>	<b>A3024</b>	<b>A3025</b>	<b>A3026</b>	<b>A3027</b>
	<b>Bowen No.</b>	A-816	876	A-6236	A-5161	A-1507	B-4899	B-1999

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4022</b>	<b>A4023</b>	<b>A40235</b>	<b>A4024</b>	<b>A4025</b>	<b>A4026</b>	<b>A4027</b>
	<b>Bowen No.</b>	A-811	856	A-1707	B-5157	B-1508	B-4895	L-1867
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5022</b>	<b>A5023</b>	<b>A50235</b>	<b>A5024</b>	<b>A5025</b>	<b>A5026</b>	<b>A5027</b>
	<b>Bowen No.</b>	B-814	859	B-6234	B-5159	B-1505	B-4897	B-1997
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6022</b>	<b>A6023</b>	<b>A60235</b>	<b>A6024</b>	<b>A6025</b>	<b>A6026</b>	<b>A6027</b>
	<b>Bowen No.</b>	B-815	875	A-6235	B-5160	A-1506	B-4898	A-1998

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7022</b>	<b>A7023</b>	<b>A70235</b>	<b>A7024</b>	<b>A7025</b>	<b>A7026</b>	<b>A7027</b>
	<b>Bowen No.</b>	B-814	859	B-6234	B-5159	B-1505	B-4897	B-1997
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8022</b>	<b>A8023</b>	<b>A80235</b>	<b>A8024</b>	<b>A8025</b>	<b>A8026</b>	<b>A8027</b>
	<b>Bowen No.</b>	B-815	875	A-6235	B-5160	A-1506	B-4898	A-1998
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9022</b>	<b>A9023</b>	<b>A90235</b>	<b>A9024</b>	<b>A9025</b>	<b>A9026</b>	<b>A9027</b>
	<b>Bowen No.</b>	811-R	856-R	60947R	B-5157-R	A-1508-R	B-4895-R	L-1867-R

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### When ordering, please specify:

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- (2) Top Sub connection
- (3) Size and type of fish to be caught
- (4) O.D., if other than standard

### Recommended Spare Parts:

- (1) Spiral: 3 Packers, 2 Grapples, for each size, and 1 Control
- (2) Basket: 2 Grapples, 2 Control Packers or Mill Control Packers for each size
- (3) Mill Control Packers: 3 Inner Seals and Outer Seals



# LOGAN GENERAL CATALOG

OIL TOOLS

## SERIES 150 RELEASING & CIRCULATING OVERSHOTS

<b>MAXIMUM CATCH SIZE (Spiral)</b>		4-1/4	4-1/4	4-1/4	4-1/4	4-1/2	4-1/2	4-5/8
<b>MAXIMUM CATCH SIZE (Basket)</b>		3-3/4	3-3/4	3-11/16	3-11/16	3-7/8	3-7/8	4-1/8
<b>OVERSHOT O.D.</b>		5-1/8	5-1/8	5-9/16	5-9/16	5-3/8	5-13/16	5-1/2
<b>TYPE</b>		SH	SH	FS	FS	SH	FS	SH
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-513-D</b>	<b>150-512-D</b>	<b>150-556-A</b>	<b>150-555-A</b>	<b>150-538-D</b>	<b>150-581-A</b>	<b>150-550-D</b>
	Bowen No.	C-5162	4716	5896	C-4819	C-5165	C-4814	C-4969
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A1028</b>	<b>A10285</b>	<b>A1029</b>	<b>A10295</b>	<b>A1030</b>	<b>A1031</b>	<b>A10315</b>
	Bowen No.	A-5163	4718	5897	A-4820	A-5166	A-4815	A-4970
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A2028</b>	<b>A20285</b>	<b>A2029</b>	<b>A20295</b>	<b>A2030</b>	<b>A2031</b>	<b>A20315</b>
	Bowen No.	B-5164	4717	5898	B-4821	B-5167	B-4816	B-4971
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3028</b>	<b>A30285</b>	<b>A3029</b>	<b>A30295</b>	<b>A3030</b>	<b>A3031</b>	<b>A30315</b>
	Bowen No.	A-4676	4719	187	L-187	B-2491	B-1989	M-1138

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A40285</b>	<b>A40285</b>	<b>A4029</b>	<b>A4029</b>	<b>A4030</b>	<b>A4031</b>	<b>A4032</b>
	Bowen No.	B-4672	4672	169	169	B-2487	B-2199-1	1140
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A50285</b>	<b>A50285</b>	<b>A5029</b>	<b>A5029</b>	<b>A5030</b>	<b>A5031</b>	<b>A5032</b>
	Bowen No.	B-4674	4674	165	165	B-2489	B-1987	1135
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A60285</b>	<b>A60285</b>	<b>A6029</b>	<b>A6029</b>	<b>A6030</b>	<b>A6031</b>	<b>A6032</b>
	Bowen No.	A-4675	4675	186	186	B-2490	B-1988	1137

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A70285</b>	<b>A70285</b>	<b>A7029</b>	<b>A7029</b>	<b>A7030</b>	<b>A7031</b>	<b>A7032</b>
	Bowen No.	B-4674	4674	165	165	B-2489	B-1987	1135
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A80285</b>	<b>A80285</b>	<b>A8029</b>	<b>A8029</b>	<b>A8030</b>	<b>A8031</b>	<b>A8032</b>
	Bowen No.	A-4675	4675	186	186	B-2490	B-1988	1137
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A90285</b>	<b>A90285</b>	<b>A9029</b>	<b>A9029</b>	<b>A9030</b>	<b>A9031</b>	<b>A9032</b>
	Bowen No.	B-4672-R	4672-R	169-R	169-R	B-2487-R	B-2199-1R	1140-R

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- (2) Top Sub connection
- (3) Size and type of fish to be caught
- (4) O.D., if other than standard

### Recommended Spare Parts:

- (1) Spiral: 3 Packers, 2 Grapples, for each size, and 1 Control
- (2) Basket: 2 Grapples, 2 Control Packers or Mill Control Packers for each size
- (3) Mill Control Packers: 3 Inner Seals and Outer Seals

## SERIES 150 RELEASING & CIRCULATING OVERSHOTS

<b>MAXIMUM CATCH SIZE (Spiral)</b>		4-5/8	4-5/8	4-3/4	4-3/4	4-3/4	4-7/8	4-7/8
<b>MAXIMUM CATCH SIZE (Basket)</b>		4-1/8	4	4-1/4	4-1/4	4-1/8	4-1/4	4-1/4
<b>OVERSHOT O.D.</b>		5-5/8	5-15/16	5-5/8	5-3/4	6-1/16	5-3/4	6-1/8
<b>TYPE</b>		FS	FS	SH	FS	FS	SH	FS
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-563-A</b>	<b>150-594-A</b>	<b>150-563-D</b>	<b>150-575-A</b>	<b>150-606-A</b>	<b>150-575-D</b>	<b>150-613-A</b>
	<b>Bowen No.</b>	5698	5737	C-5168	8975	C-4829	C-7096	912
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A1032</b>	<b>A1033</b>	<b>A1034</b>	<b>A1035</b>	<b>A1036</b>	<b>A1037</b>	<b>A10375</b>
	<b>Bowen No.</b>	5699	5738	A-5169	8976	A-4830	A-7097	908
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A2032</b>	<b>A2033</b>	<b>A2034</b>	<b>A2035</b>	<b>A2036</b>	<b>A2037</b>	<b>A20375</b>
	<b>Bowen No.</b>	5700	5735	B-5170	8977	B-4831	B-7098	905
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3032</b>	<b>A3033</b>	<b>A3034</b>	<b>A3035</b>	<b>A3036</b>	<b>A3037</b>	<b>A30375</b>
	<b>Bowen No.</b>	1143	192	B-2203	6121	B-2366	A-6391	1186

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4032</b>	<b>A4033</b>	<b>A4034</b>	<b>A4035</b>	<b>A4036</b>	<b>A4037</b>	<b>A40375</b>
	<b>Bowen No.</b>	1140	195	B-2199	6114	B-2362	B-6387	1189
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5032</b>	<b>A5033</b>	<b>A5034</b>	<b>A5035</b>	<b>A5036</b>	<b>A5037</b>	<b>A50375</b>
	<b>Bowen No.</b>	1135	196	B-2201	6112	B-2364	B-6389	1182
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6032</b>	<b>A6033</b>	<b>A6034</b>	<b>A6035</b>	<b>A6036</b>	<b>A6037</b>	<b>A60375</b>
	<b>Bowen No.</b>	1137	193	B-2202	6113	B-2365	A-6390	1187

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7032</b>	<b>A7033</b>	<b>A7034</b>	<b>A7035</b>	<b>A7036</b>	<b>A7037</b>	<b>A70375</b>
	<b>Bowen No.</b>	1135	196	B-2201	6112	B-2364	B-6389	1182
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8032</b>	<b>A8033</b>	<b>A8034</b>	<b>A8035</b>	<b>A8036</b>	<b>A8037</b>	<b>A80375</b>
	<b>Bowen No.</b>	1137	193	B-2202	6113	B-2365	A-6390	1187
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9032</b>	<b>A9033</b>	<b>A9034</b>	<b>A9035</b>	<b>A9036</b>	<b>A9037</b>	<b>A90375</b>
	<b>Bowen No.</b>	1140-R	195-R	B-2199-R	6114-R	B-2362-R	B-6387-R	1189-R

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- (1) Spiral: 3 Packers, 2 Grapples, for each size, and 1 Control
- (2) Basket: 2 Grapples, 2 Control Packers or Mill Control Packers for each size
- (3) Mill Control Packers: 3 Inner Seals and Outer Seals

## SERIES 150 RELEASING & CIRCULATING OVERSHOTS

<b>MAXIMUM CATCH SIZE (Spiral)</b>		4-7/8	5	5	5	5-1/8	5-1/4	5-3/8
<b>MAXIMUM CATCH SIZE (Basket)</b>		4-1/4	4-1/2	4-3/8	4-1/4	4-5/8	4-5/8	4-3/4
<b>OVERSHOT O.D.</b>		6-3/16	5-7/8	6-1/8	6-5/8	5-3/4	6-3/8	6-1/2
<b>TYPE</b>		FS	SH	SFS	FS	SH	SH	SH
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-619-A</b>	<b>150-588-D</b>	<b>150-612-C</b>	<b>150-663-A</b>	<b>150-576-D</b>	<b>150-638-D</b>	<b>150-650-D</b>
	<b>Bowen No.</b>	C-7093	C-5171	7787	C-4825	C-11823	6655	4773
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A1038</b>	<b>A1039</b>	<b>A10395</b>	<b>A1040</b>	<b>A10402</b>	<b>A10405</b>	<b>A10407</b>
	<b>Bowen No.</b>	A-7094	A-5172	7789	B-4826	A-11824	6656	4774
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A2038</b>	<b>A2039</b>	<b>A20395</b>	<b>A2040</b>	<b>A20402</b>	<b>A20405</b>	<b>A20407</b>
	<b>Bowen No.</b>	B-7095	B-5173	7788	B-4827	B-11825	4503	9205
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3038</b>	<b>A3039</b>	<b>A30395</b>	<b>A3040</b>	<b>A30402</b>	<b>A30405</b>	<b>A30407</b>
	<b>Bowen No.</b>	A-2459	B-4371	5946	L-1074	A-11830	4504	4775

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4038</b>	<b>A4039</b>	<b>A40395</b>	<b>A4040</b>	<b>A40402</b>	<b>A40405</b>	<b>A40407</b>
	<b>Bowen No.</b>	B-2455	L-5950	5950	L-4505	B-11826	4505	9209
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5038</b>	<b>A5039</b>	<b>A50395</b>	<b>A5040</b>	<b>A50402</b>	<b>A50405</b>	<b>A50407</b>
	<b>Bowen No.</b>	B-2457	B-4369	5942	M-1071	B-11828	4498	9207
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6038</b>	<b>A6039</b>	<b>A60395</b>	<b>A6040</b>	<b>A60402</b>	<b>A60405</b>	<b>A60407</b>
	<b>Bowen No.</b>	B-2458	B-4370	5944	M-1072	A-11829	4499	9208

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7038</b>	<b>A7039</b>	<b>A70395</b>	<b>A7040</b>	<b>A70402</b>	<b>A70405</b>	<b>A70407</b>
	<b>Bowen No.</b>	B-2457	B-4369	5942	M-1071	B-11828	4498	9207
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8038</b>	<b>A8039</b>	<b>A80395</b>	<b>A8040</b>	<b>A80402</b>	<b>A80405</b>	<b>A80407</b>
	<b>Bowen No.</b>	B-2458	B-4370	5944	M-1072	A-11829	4499	9208
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9038</b>	<b>A9039</b>	<b>A90395</b>	<b>A9040</b>	<b>A90402</b>	<b>A90405</b>	<b>A90407</b>
	<b>Bowen No.</b>	B-2455-R	L-5950-R	5950-R	M-4505-RS	11826-R	4505-R	9209-R

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### Logan Coding

A = FS	Full Strength – For all pulling torsional and jarring strain
B = XFS	Extra Full Strength – For extreme abuse
C = SFS	Semi Full Strength – Maximum strength for special hole conditions
D = SH	Slim Hole – For heavy pulling strains only
E = XSH	Extra Slim Hole – For pick up jobs only

### When ordering, please specify:

- (1) Complete assembly or part number
- (2) Top Sub connection
- (3) Size and type of fish to be caught
- (4) O.D., if other than standard

### Recommended Spare Parts:

- (1) Spiral: 3 Packers, 2 Grapples, for each size, and 1 Control
- (2) Basket: 2 Grapples, 2 Control Packers or Mill Control Packers for each size
- (3) Mill Control Packers: 3 Inner Seals and Outer Seals

## SERIES 150 RELEASING & CIRCULATING OVERSHOTS

<b>MAXIMUM CATCH SIZE (Spiral)</b>		5-1/2	5-1/2	5-3/4	5-3/4	6	6-1/8	6-1/8
<b>MAXIMUM CATCH SIZE (Basket)</b>		4-7/8	4-3/4	5-1/8	5	5-1/4	5-1/2	5-3/8
<b>OVERSHOT O.D.</b>		6-5/8	7-1/8	6-7/8	7-3/8	7-5/8	7-1/4	7-3/4
<b>TYPE</b>		SH	FS	SH	FS	FS	SH	FS
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-663-D</b>	<b>150-713-A</b>	<b>150-688-D</b>	<b>150-738-A</b>	<b>150-763-A</b>	<b>150-725-D</b>	<b>150-775-A</b>
	<b>Bowen No.</b>	8625	C-5176	8978	C-4689	7572	C-5206	C-5204
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A1041</b>	<b>A1042</b>	<b>A1043</b>	<b>A1044</b>	<b>A1045</b>	<b>A1046</b>	<b>A1047</b>
	<b>Bowen No.</b>	8626	A-5177	8979	A-4690	7573	A-5207	A-5205
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A2041</b>	<b>A2042</b>	<b>A2043</b>	<b>A2044</b>	<b>A2045</b>	<b>A2046</b>	<b>A2047</b>
	<b>Bowen No.</b>	8617	B-2791	8980	B-3522	7574	B-5208	B-4218
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3041</b>	<b>A3042</b>	<b>A3043</b>	<b>A3044</b>	<b>A3045</b>	<b>A3046</b>	<b>A3047</b>
	<b>Bowen No.</b>	8621	A-761	6701	L-120	218	A-5213	A-2065

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4041</b>	<b>A4042</b>	<b>A4043</b>	<b>A4044</b>	<b>A4045</b>	<b>A4046</b>	<b>A4047</b>
	<b>Bowen No.</b>	8618	A-756	6697	L-110	223	B-5209	L-1642
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5041</b>	<b>A5042</b>	<b>A5043</b>	<b>A5044</b>	<b>A5045</b>	<b>A5046</b>	<b>A5047</b>
	<b>Bowen No.</b>	8619	B-759	6699	M-104	220	B-5211	B-2063
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6041</b>	<b>A6042</b>	<b>A6043</b>	<b>A6044</b>	<b>A6045</b>	<b>A6046</b>	<b>A6047</b>
	<b>Bowen No.</b>	8620	B-760	6700	L-130	219	A-5212	B-2064

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7041</b>	<b>A7042</b>	<b>A7043</b>	<b>A7044</b>	<b>A7045</b>	<b>A7046</b>	<b>A7047</b>
	<b>Bowen No.</b>	8619	B-759	6699	M-104	220	B-5211	B-2063
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8041</b>	<b>A8042</b>	<b>A8043</b>	<b>A8044</b>	<b>A8045</b>	<b>A8046</b>	<b>A8047</b>
	<b>Bowen No.</b>	8620	B-760	6700	L-130	219	A-5212	B-2064
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9041</b>	<b>A9042</b>	<b>A9043</b>	<b>A9044</b>	<b>A9045</b>	<b>A9046</b>	<b>A9047</b>
	<b>Bowen No.</b>	L-8618-R	A-756-R	6697-R	L-110-R	223-R	B-5209-R	L-1642-R

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D = SH	Slim Hole – For heavy pulling strains only
E = XSH	Extra Slim Hole – For pick up jobs only

### When ordering, please specify:

- (1) Complete assembly or part number
- (2) Top Sub connection
- (3) Size and type of fish to be caught
- (4) O.D., if other than standard

### Recommended Spare Parts:

- (1) Spiral: 3 Packers, 2 Grapples, for each size, and 1 Control
- (2) Basket: 2 Grapples, 2 Control Packers or Mill Control Packers for each size
- (3) Mill Control Packers: 3 Inner Seals and Outer Seals

## SERIES 150 RELEASING & CIRCULATING OVERSHOTS

<b>MAXIMUM CATCH SIZE (Spiral)</b>		6-1/4	6-1/4	6-1/4	6-1/4	6-1/4	6-3/8	6-3/8
<b>MAXIMUM CATCH SIZE (Basket)</b>		5-5/8	5-9/16	5-9/16	5-9/16	5-1/2	5-3/4	5-5/8
<b>OVERSHOT O.D.</b>		7-3/8	7-5/8	7-5/8	7-7/8	7-7/8	7-1/2	7-3/4
<b>TYPE</b>		SH	SFS	SFS	FS	FS	SH	SFS
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-738-D</b>	<b>150-762-C</b>	<b>150-763-C</b>	<b>150-777-A</b>	<b>150-788-A</b>	<b>150-750-D</b>	<b>150-775-C</b>
	<b>Bowen No.</b>	9692	1873	8741	7791	C-2108	9009	9163
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A1048</b>	<b>A10485</b>	<b>A1049</b>	<b>A10495</b>	<b>A1050</b>	<b>A1051</b>	<b>A1052</b>
	<b>Bowen No.</b>	9693	118	8742	7793	B-2106	9010	9165
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A2048</b>	<b>A20485</b>	<b>A2049</b>	<b>A20495</b>	<b>A2050</b>	<b>A2051</b>	<b>A2052</b>
	<b>Bowen No.</b>	9694	1875	1641	1657	B-2109	9011	9164
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3048</b>	<b>A3049</b>	<b>A3049</b>	<b>A30495</b>	<b>A3050</b>	<b>A3051</b>	<b>A3052</b>
	<b>Bowen No.</b>	9691	5525	5525	1493	A-2075	9007	5506

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4048</b>	<b>A4049</b>	<b>A4049</b>	<b>A40495</b>	<b>A4050</b>	<b>A4051</b>	<b>A4052</b>
	<b>Bowen No.</b>	9689	1642	1642	1680	L-1680	9005	5508
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5048</b>	<b>A5049</b>	<b>A5049</b>	<b>A50495</b>	<b>A5050</b>	<b>A5051</b>	<b>A5052</b>
	<b>Bowen No.</b>	9687	1644	1644	1659	B-2073	9003	5503
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6048</b>	<b>A6049</b>	<b>A6049</b>	<b>A60495</b>	<b>A6050</b>	<b>A6051</b>	<b>A6052</b>
	<b>Bowen No.</b>	9688	1645	1645	1660	A-2074	9004	5504

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7048</b>	<b>A7049</b>	<b>A7049</b>	<b>A70495</b>	<b>A7050</b>	<b>A7051</b>	<b>A7052</b>
	<b>Bowen No.</b>	9687	1644	1644	1659	B-2073	9003	5503
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8048</b>	<b>A8049</b>	<b>A8049</b>	<b>A80495</b>	<b>A8050</b>	<b>A8051</b>	<b>A8052</b>
	<b>Bowen No.</b>	9688	1645	1645	1660	A-2074	9004	5504
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9048</b>	<b>A9049</b>	<b>A9049</b>	<b>A90495</b>	<b>A9050</b>	<b>A9051</b>	<b>A9052</b>
	<b>Bowen No.</b>	9689-R	1642-R	1642-R	1680-R	L-1680-R	9005-R	5508-R

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### When ordering, please specify:

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- (4) O.D., if other than standard

### Recommended Spare Parts:

- (1) Spiral: 3 Packers, 2 Grapples, for each size, and 1 Control
- (2) Basket: 2 Grapples, 2 Control Packers or Mill Control Packers for each size
- (3) Mill Control Packers: 3 Inner Seals and Outer Seals

## SERIES 150 RELEASING & CIRCULATING OVERSHOTS

<b>MAXIMUM CATCH SIZE (Spiral)</b>		6-1/2	6-1/2	6-5/8	6-5/8	6-3/4	6-3/4	6-7/8
<b>MAXIMUM CATCH SIZE (Basket)</b>		5-7/8	5-3/4	6	5-7/8	6-1/8	6	6-1/4
<b>OVERSHOT O.D.</b>		7-5/8	8-1/8	7-3/4	8-1/4	7-7/8	8-3/8	8
<b>TYPE</b>		SH	FS	SH	FS	SH	FS	SH
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-763-D</b>	<b>150-813-A</b>	<b>150-775-D</b>	<b>150-825-A</b>	<b>150-788-D</b>	<b>150-838-A</b>	<b>150-800-D</b>
	Bowen No.	9860	C-5342	4785	C-3032	C-5222	275	N-8995
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A1053</b>	<b>A1054</b>	<b>A1055</b>	<b>A1056</b>	<b>A1057</b>	<b>A1058</b>	<b>A10587</b>
	Bowen No.	9861	A-5343	9133	A-3033	A-5223	276	L-8996
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A2053</b>	<b>A2054</b>	<b>A2055</b>	<b>A2056</b>	<b>A2057</b>	<b>A2058</b>	<b>A20587</b>
	Bowen No.	9862	B-3711	9134	B-3034	B-5224	277	M-8997
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3053</b>	<b>A3054</b>	<b>A3055</b>	<b>A3056</b>	<b>A3057</b>	<b>A3058</b>	<b>A30587</b>
	Bowen No.	9867	A-2376	9139	A-1818	A-5229	205	L-8989

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4053</b>	<b>A4054</b>	<b>A4055</b>	<b>A4056</b>	<b>A4057</b>	<b>A4058</b>	<b>A40587</b>
	Bowen No.	9865	2372	9136	A-1814	B-5225	207	L-8985
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5053</b>	<b>A5054</b>	<b>A5055</b>	<b>A5056</b>	<b>A5057</b>	<b>A5058</b>	<b>A50587</b>
	Bowen No.	9863	B-2374	9137	N-84	B-5227	209	M-8987
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6053</b>	<b>A6054</b>	<b>A6055</b>	<b>A6056</b>	<b>A6057</b>	<b>A6058</b>	<b>A60587</b>
	Bowen No.	9864	B-2375	9138	M-89	A-5228	208	M-8988

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7053</b>	<b>A7054</b>	<b>A7055</b>	<b>A7056</b>	<b>A7057</b>	<b>A7058</b>	<b>A70587</b>
	Bowen No.	9863	B-2374	9137	N-84	B-5227	209	M-8987
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8053</b>	<b>A8054</b>	<b>A8055</b>	<b>A8056</b>	<b>A8057</b>	<b>A8058</b>	<b>A80587</b>
	Bowen No.	9864	B-2375	9138	M-89	A-5228	208	M-8988
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9053</b>	<b>A9054</b>	<b>A9055</b>	<b>A9056</b>	<b>A9057</b>	<b>A9058</b>	<b>A90587</b>
	Bowen No.	9865-R	L-6635-R	9136-R	A-1814-R	B-5225-R	207-R	L-8985-R

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### When ordering, please specify:

- (1) Complete assembly or part number
- (2) Top Sub connection
- (3) Size and type of fish to be caught
- (4) O.D., if other than standard

### Recommended Spare Parts:

- (1) Spiral: 3 Packers, 2 Grapples, for each size, and 1 Control
- (2) Basket: 2 Grapples, 2 Control Packers or Mill Control Packers for each size
- (3) Mill Control Packers: 3 Inner Seals and Outer Seals

## SERIES 150 RELEASING & CIRCULATING OVERSHOTS

<b>MAXIMUM CATCH SIZE (Spiral)</b>		7	7	7	7	7	7-1/8	7-1/4
<b>MAXIMUM CATCH SIZE (Basket)</b>		6-3/8	6-3/8	6-1/4	6-3/8	6-1/4	6-1/2	6-5/8
<b>OVERSHOT O.D.</b>		8-1/8	8-1/8	8-1/8	8-3/8	8-5/8	8-1/4	8-3/8
<b>TYPE</b>		SH	SH	SH	SH	FS	SH	SH
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-814-D</b>	<b>150-813-D</b>	<b>150-812-D</b>	<b>150-837-D</b>	<b>150-863-A</b>	<b>150-825-D</b>	<b>150-838-D</b>
	Bowen No.	9815	9217	C-3263	17208	C-4817	9570	C-5354
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A10590</b>	<b>A1059</b>	<b>A10595</b>	<b>A1058</b>	<b>A1060</b>	<b>A10605</b>	<b>A1061</b>
	Bowen No.	9816	9218	A-3033	276	B-4818	9544	A-5355
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A20590</b>	<b>A2059</b>	<b>A20595</b>	<b>A20598</b>	<b>A2060</b>	<b>A20605</b>	<b>A2061</b>
	Bowen No.	9817	9219	B-3264	17209	B-3819	9571	B-5356
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3059</b>	<b>A3059</b>	<b>A30595</b>	<b>A3059</b>	<b>A3060</b>	<b>A30605</b>	<b>A3061</b>
	Bowen No.	9226	9226	A-3269	9226	M-121	4792	A-5361

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4059</b>	<b>A4059</b>	<b>A40595</b>	<b>A4059</b>	<b>A4060</b>	<b>A40605</b>	<b>A4061</b>
	Bowen No.	9224	L-9224	L-6310	9224	L-111	9231	B-5357
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5059</b>	<b>A5059</b>	<b>A50595</b>	<b>A5059</b>	<b>A5060</b>	<b>A50605</b>	<b>A5061</b>
	Bowen No.	9222	9222	B-3267	9222	N-105	9229	B-5359
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6059</b>	<b>A6059</b>	<b>A60595</b>	<b>A6059</b>	<b>A6060</b>	<b>A60605</b>	<b>A6061</b>
	Bowen No.	9223	9223	B-3268	9223	M-131	9230	B-5360

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7059</b>	<b>A7059</b>	<b>A70595</b>	<b>A7059</b>	<b>A7060</b>	<b>A70605</b>	<b>A7061</b>
	Bowen No.	9222	9222	B-3267	9222	N-105	9229	B-5359
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8059</b>	<b>A8059</b>	<b>A80595</b>	<b>A8059</b>	<b>A8060</b>	<b>A80605</b>	<b>A8061</b>
	Bowen No.	9223	9223	B-3268	9223	M-131	9230	B-5360
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9059</b>	<b>A9059</b>	<b>A90595</b>	<b>A9059</b>	<b>A9060</b>	<b>A90605</b>	<b>A9061</b>
	Bowen No.	92240-R	9224-R	L-6310R	9224-R	L-111-R	9231-R	B-5357-R

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B = XFS	Extra Full Strength – For extreme abuse
C = SFS	Semi Full Strength – Maximum strength for special hole conditions
D = SH	Slim Hole – For heavy pulling strains only
E = XSH	Extra Slim Hole – For pick up jobs only

### When ordering, please specify:

- (1) Complete assembly or part number
- (2) Top Sub connection
- (3) Size and type of fish to be caught
- (4) O.D., if other than standard

### Recommended Spare Parts:

- (1) Spiral: 3 Packers, 2 Grapples, for each size, and 1 Control
- (2) Basket: 2 Grapples, 2 Control Packers or Mill Control Packers for each size
- (3) Mill Control Packers: 3 Inner Seals and Outer Seals

## SERIES 150 RELEASING & CIRCULATING OVERSHOTS

<b>MAXIMUM CATCH SIZE (Spiral)</b>		7-1/4	7-3/8	7-3/8	7-1/2	7-1/2	7-5/8	7-5/8
<b>MAXIMUM CATCH SIZE (Basket)</b>		6-1/2	6-3/4	6-5/8	6-7/8	6-3/4	7	6-7/8
<b>OVERSHOT O.D.</b>		8-7/8	8-1/2	9	8-5/8	9-1/8	8-3/4	9-1/4
<b>TYPE</b>		FS	SH	FS	SH	FS	SH	FS
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-888-A</b>	<b>150-850-D</b>	<b>150-900-A</b>	<b>150-863-D</b>	<b>150-913-A</b>	<b>150-875-D</b>	<b>150-762-A</b>
	Bowen No.	C-5352	4793	C-5230	C-7101	C-7099	4796	C-5241
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A1062</b>	<b>A1063</b>	<b>A1064</b>	<b>A1065</b>	<b>A1066</b>	<b>A1067</b>	<b>A10675</b>
	Bowen No.	A-5353	4794	A-5231	A-7102	A-7100	4797	A-5242
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A2062</b>	<b>A2063</b>	<b>A2064</b>	<b>A2065</b>	<b>A2066</b>	<b>A2067</b>	<b>A20675</b>
	Bowen No.	M-1026-1	9233	B-5232	B-7103	B-4516	9239	B-5243
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3062</b>	<b>A3063</b>	<b>A3064</b>	<b>A3065</b>	<b>A3066</b>	<b>A3067</b>	<b>A30675</b>
	Bowen No.	M-1029	4795	A-4158	A-7108	A-3456	4798	A-5248

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4062</b>	<b>A4063</b>	<b>A4064</b>	<b>A4065</b>	<b>A4066</b>	<b>A4067</b>	<b>A40675</b>
	Bowen No.	L-1025	9237	B-4154	B-7104	L-98	9243	B-5244
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5062</b>	<b>A5063</b>	<b>A5064</b>	<b>A5065</b>	<b>A5066</b>	<b>A5067</b>	<b>A50675</b>
	Bowen No.	M-1027	9235	C-4156	B-7106	B-3454	9241	B-5246
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6062</b>	<b>A6063</b>	<b>A6064</b>	<b>A6065</b>	<b>A6066</b>	<b>A6067</b>	<b>A60675</b>
	Bowen No.	M-1031	9236	B-4157	A-7107	B-3455	9242	B-5247

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7062</b>	<b>A7063</b>	<b>A7064</b>	<b>A7065</b>	<b>A7066</b>	<b>A7067</b>	<b>A70675</b>
	Bowen No.	M-1027	9235	C-4156	B-7106	B-3454	9241	B-5246
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8062</b>	<b>A8063</b>	<b>A8064</b>	<b>A8065</b>	<b>A8066</b>	<b>A8067</b>	<b>A80675</b>
	Bowen No.	M-1031	9236	B-4157	A-7107	B-3455	9242	B-5247
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9062</b>	<b>A9063</b>	<b>A9064</b>	<b>A9065</b>	<b>A9066</b>	<b>A9067</b>	<b>A90675</b>
	Bowen No.	L-1025-R	9237-R	B-4154-R	B-7104-R	M-98-RS	9243-R	B-5244-R

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- (3) Mill Control Packers: 3 Inner Seals and Outer Seals



## SERIES 150 RELEASING & CIRCULATING OVERSHOTS

<b>MAXIMUM CATCH SIZE (Spiral)</b>		7-3/4	7-3/4	7-3/4	7-3/4	8	8	8-3/8
<b>MAXIMUM CATCH SIZE (Basket)</b>		7-1/8	7	7	7	7-3/8	7-1/4	7-3/4
<b>OVERSHOT O.D.</b>		8-7/8	8-7/8	9-3/8	9-3/8	9-1/8	9-5/8	9-1/2
<b>TYPE</b>		SH	SH	FS	FS	SH	FS	SH
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-888-D</b>	<b>150-889-D</b>	<b>150-937-A</b>	<b>150-938-A</b>	<b>150-913-D</b>	<b>150-963-A</b>	<b>150-950-D</b>
	Bowen No.	9850	C-5257	1665	C-1500	C-5265	264	4834
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A1068</b>	<b>A1069</b>	<b>A10695</b>	<b>A1070</b>	<b>A1071</b>	<b>A1072</b>	<b>A1073</b>
	Bowen No.	9851	A-5258	1666	B-1502	A-5266	265	9063
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A2068</b>	<b>A2069</b>	<b>A20695</b>	<b>A2070</b>	<b>A2071</b>	<b>A2072</b>	<b>A2073</b>
	Bowen No.	9852	B-5259	1283	B-1501	B-5267	266	9062
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3068</b>	<b>A3069</b>	<b>A30695</b>	<b>A3070</b>	<b>A3071</b>	<b>A3072</b>	<b>A3073</b>
	Bowen No.	9857	A-5264	88	M-88	A-5272	240	9059

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4068</b>	<b>A4069</b>	<b>A40695</b>	<b>A40695</b>	<b>A4071</b>	<b>A4072</b>	<b>A4073</b>
	Bowen No.	9855	B-5260	98 & L-98	98 & L-98	B-5268	235	9055
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5068</b>	<b>A5069</b>	<b>A50695</b>	<b>A5070</b>	<b>A5071</b>	<b>A5072</b>	<b>A5073</b>
	Bowen No.	9853	B-5262	85 & N-85	N-85	B-5270	238	9057
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6068</b>	<b>A6069</b>	<b>A60695</b>	<b>A60695</b>	<b>A6071</b>	<b>A6072</b>	<b>A6073</b>
	Bowen No.	9854	A-5263	100 & M-100	100 & M-100	B-5271	239	9058

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7068</b>	<b>A7069</b>	<b>A70695</b>	<b>A7070</b>	<b>A7071</b>	<b>A7072</b>	<b>A7073</b>
	Bowen No.	9853	B-5262	85 & N-85	N-85	B-5270	238	9057
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8068</b>	<b>A8069</b>	<b>A80695</b>	<b>A80695</b>	<b>A8071</b>	<b>A8072</b>	<b>A8073</b>
	Bowen No.	9854	A-5263	100 & M-100	100 & M-100	B-5271	239	9058
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9068</b>	<b>A9069</b>	<b>A90695</b>	<b>A90695</b>	<b>A9071</b>	<b>A9072</b>	<b>A9073</b>
	Bowen No.	9855-R	B-5260-R	98-R & L-98-R	98-R & L-98-R	B-5268-R	235-R	9055-R

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- (2) Basket: 2 Grapples, 2 Control Packers or Mill Control Packers for each size
- (3) Mill Control Packers: 3 Inner Seals and Outer Seals

## SERIES 150 RELEASING & CIRCULATING OVERSHOTS

<b>MAXIMUM CATCH SIZE (Spiral)</b>		8-3/8	8-1/2	8-1/2	8-5/8	8-7/8	9	9-5/8
<b>MAXIMUM CATCH SIZE (Basket)</b>		7-5/8	7-7/8	7-3/4	7-7/8	8-1/8	8-1/4	8-7/8
<b>OVERSHOT O.D.</b>		10-1/16	9-5/8	10-1/8	10-1/4	10-1/2	10-5/8	11-1/4
<b>TYPE</b>		FS	SH	FS	SH	FS	FS	FS
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>150-1006-A</b>	<b>150-963-D</b>	<b>150-1013-A</b>	<b>150-1025-D</b>	<b>150-1050-A</b>	<b>150-1063-A</b>	<b>150-1125-A</b>
	<b>Bowen No.</b>	C-1230	C-5284	8960	C-5297	C-5305	C-5321	C-12822
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A1074</b>	<b>A1075</b>	<b>A1076</b>	<b>A1077</b>	<b>A1078</b>	<b>A1079</b>	<b>A1080</b>
	<b>Bowen No.</b>	B-1235	A-5285	8961	A-5298	A-5306	A-5322	A-12823
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A2074</b>	<b>A2075</b>	<b>A2076</b>	<b>A2077</b>	<b>A2078</b>	<b>A2079</b>	<b>A2080</b>
	<b>Bowen No.</b>	B-1231	B-5286	8962	B-5299	B-5307	B-5323	B-12824
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3074</b>	<b>A3075</b>	<b>A3076</b>	<b>A3077</b>	<b>A3078</b>	<b>A3079</b>	<b>A3080</b>
	<b>Bowen No.</b>	B-1236	A-5291	8959	A-5304	A-5312	A-5328	A-12829

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4074</b>	<b>A4075</b>	<b>A4076</b>	<b>A4077</b>	<b>A4078</b>	<b>A4079</b>	<b>A4080</b>
	<b>Bowen No.</b>	L-1060	B-5287	8956	B-5300	B-5308	B-5324	B-12825
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5074</b>	<b>A5075</b>	<b>A5076</b>	<b>A5077</b>	<b>A5078</b>	<b>A5079</b>	<b>A5080</b>
	<b>Bowen No.</b>	C-1232	B-5289	8957	B-5302	B-5310	B-5326	B-12827
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6074</b>	<b>A6075</b>	<b>A6076</b>	<b>A6077</b>	<b>A6078</b>	<b>A6079</b>	<b>A6080</b>
	<b>Bowen No.</b>	B-1233	A-5290	8958	B-5303	B-5311	B-5327	B-12828

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7074</b>	<b>A7075</b>	<b>A7076</b>	<b>A7077</b>	<b>A7078</b>	<b>A7079</b>	<b>A7080</b>
	<b>Bowen No.</b>	C-1232	B-5289	8957	B-5302	B-5310	B-5326	B-12827
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8074</b>	<b>A8075</b>	<b>A8076</b>	<b>A8077</b>	<b>A8078</b>	<b>A8079</b>	<b>A8080</b>
	<b>Bowen No.</b>	B-1233	B-5290	8958	B-5303	B-5311	B-5327	B-12828
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9074</b>	<b>A9075</b>	<b>A9076</b>	<b>A9077</b>	<b>A9078</b>	<b>A9079</b>	<b>A9080</b>
	<b>Bowen No.</b>	L-1060-R	B-5287-R	8956-R	B-5300-R	B-5308-R	B-5324-R	B-12825-R

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## SERIES 150 RELEASING & CIRCULATING OVERSHOTS

<b>MAXIMUM CATCH SIZE (Spiral)</b>		9-3/4	10-1/8	11-1/4	12	14	14-3/4	16-3/4
<b>MAXIMUM CATCH SIZE (Basket)</b>		9	9-3/8	10-1/2	11-1/4	13-1/4	14	16
<b>OVERSHOT O.D.</b>		11-3/8	11-3/4	12-3/4	13-3/4	16	16-3/4	20-1/4
<b>TYPE</b>		FS	FS	FS	...	...	...	...
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>A150-1138-A</b>	<b>A150-1175-A</b>	<b>A150-1275-A</b>	<b>A150-1375</b>	<b>A150-1600</b>	<b>A150-1675</b>	<b>A150-2075</b>
	<b>Bowen No.</b>	26255	C-5329	15800	33006	68028	64553	31653
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>A1081</b>	<b>A1082</b>	<b>A1083</b>	<b>A1084</b>	<b>A1085</b>	<b>A1086</b>	<b>A1087</b>
	<b>Bowen No.</b>	26256	5330	15801	33007	68029	64554	31654
<b>BOWL</b>	<b>Logan Part No.</b>	<b>A2081</b>	<b>A2082</b>	<b>A2083</b>	<b>A2084</b>	<b>A2085</b>	<b>A2086</b>	<b>A2087</b>
	<b>Bowen No.</b>	26257	5331	15802	33008	68030	64555	31655
<b>STANDARD GUIDE (CUT-LIPPED)</b>	<b>Logan Part No.</b>	<b>A3081</b>	<b>A3082</b>	<b>A3083</b>	<b>A3084</b>	<b>A3085</b>	<b>A3086</b>	<b>A3087</b>
	<b>Bowen No.</b>	26261	5336	15806	33012	68035	64560	31660

## SPIRAL COMPONENT PARTS

<b>PACKER</b>	<b>Logan Part No.</b>	<b>A4081</b>	<b>A4082</b>	<b>A4083</b>	<b>A4084</b>	<b>A4085</b>	<b>A4086</b>	<b>A4087</b>
	<b>Bowen No.</b>	26260	B-5332	15805	33011	68031	64556	31656
<b>SPIRAL GRAPPLE</b>	<b>Logan Part No.</b>	<b>A5081</b>	<b>A5082</b>	<b>A5083</b>	<b>A5084</b>	<b>A5085</b>	<b>A5086</b>	<b>A5087</b>
	<b>Bowen No.</b>	26258	5334	15803	33009	68033	64558	31658
<b>SPIRAL GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A6081</b>	<b>A6082</b>	<b>A6083</b>	<b>A6084</b>	<b>A6085</b>	<b>A6086</b>	<b>A6087</b>
	<b>Bowen No.</b>	26259	5335	15804	33010	68034	64559	31659

## BASKET COMPONENT PARTS

<b>BASKET GRAPPLE</b>	<b>Logan Part No.</b>	<b>A7081</b>	<b>A7082</b>	<b>A7083</b>	<b>A7084</b>	<b>A7085</b>	<b>A7086</b>	<b>A7087</b>
	<b>Bowen No.</b>	26258	5334	15803	33009	68033	64558	31658
<b>BASKET GRAPPLE CONTROL</b>	<b>Logan Part No.</b>	<b>A8081</b>	<b>A8082</b>	<b>A8083</b>	<b>A8084</b>	<b>A8085</b>	<b>A8086</b>	<b>A8087</b>
	<b>Bowen No.</b>	26259	5335	15804	33010	68034	64559	31659
<b>MILL CONTROL PACKER</b>	<b>Logan Part No.</b>	<b>A9081</b>	<b>A9082</b>	<b>A9083</b>	<b>A9084</b>	<b>A9085</b>	<b>A9086</b>	<b>A9087</b>
	<b>Bowen No.</b>	26260-R	5332-R	15805-R	33011-R	68031-R	64556-R	31656-R

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