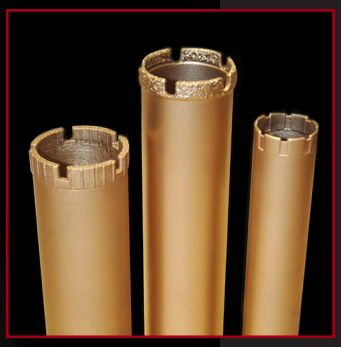
PRODUCT CATALOG



Scorpion Engineering, Inc.

We at Scorpion Engineering pride ourselves on being one of the industries top specialty diamond tool manufacturers.

We design and manufacture a wide array of Specialty Diamond Products, Core Barrels and Core Barrel Consumables. We are committed to making sure that our customers' needs are met in a timely and efficient manner, helping to ensure your company's maximum productivity and profitability.

Scorpion Engineering, Inc.

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DIAMOND BIT SELECTION CHART AND STANDARD TYPES

BIT TYPES - Inside Diameters and Outside Diameters					REAMING SHELL O.D.	
SIZE	OD - Inches	OD - mm	ID - Inches	ID - mm	Inches	mm
A W/L	1.890	48.0	1.065	27.0	1.890	48.0
B W/L	2.360	59.9	1.432	36.4	2.360	59.9
N W/L	2.980	75.7	1.875	47.6	2.980	75.7
N-2 W/L	2.980	75.7	1.995	50.7	2.980	75.7
N-3 W/L	2.980	75.7	1.775	45.1	2.980	75.7
H W/L	3.782	95.9	2.500	63.5	3.782	95.9
H-3 W/L	3.782	95.9	2.400	61.1	3.782	95.9
P W/L	4.827	122.6	3.345	85.0	4.827	122.6
P-3 W/L	4.827	122.6	3.270	83.0	4.827	122.6
BWD4	2.360	59.9	1.615	41.0	2.360	59.9
BWG	2.360	59.9	1.655	42.0	2.360	59.9
BWC3	2.360	59.9	1.432	36.4	2.360	59.9
BXEWL	2.360	59.9	1.437	36.5	2.375	60.3
NWD4	2.980	75.7	2.060	52.3	2.980	75.7
NWG	2.980	75.7	2.155	54.7	2.980	75.7
NWM	2.980	75.7	2.155	54.7	2.980	75.7
NWC3	2.980	75.7	1.875	47.6	2.980	75.7
NMLC	2.980	75.7	2.039	51.8	2.980	75.7
NXEWL	2.980	75.7	2.000	50.8	2.984	75.8
HW	3.782	95.9	2.500	63.5	3.782	95.9
HWD3	3.650	92.7	2.400	61.1	3.650	92.7
HWD4	3.650	92.7	2.400	61.1	3.650	92.7
HX	3.650	92.7	2.400	61.1	3.650	92.7
CPWL	4.827	122.6	3.345	85.0	4.827	122.6
94MM/5.00X2.40	5.000 (varies)	127.0	2.400	61.1	5.000 (varies)	127.0
CHD-101	3.985	101.2	2.500	63.5	3.985	101.2

Our IMPREGNATED DIAMOND BITS are the optimal choice when drilling in medium to ultra-hard formations. Diamonds are dispersed into a unique matrix. The matrix and diamonds wear away at the same rate so new diamonds are always on the surface of the bit, thus making this a self-sharpening bit.

With many design possibilities we can manufacture a bit for any formation that will maximize penetration rates and increase overall performance. Impregnated Bits can be customized to meet your drilling requirements including: Thread type, Gauge, Impregnation Depth, and Waterway options.

BULLET-X IMPREGNATED CORE BIT

The BULLET-X IMPREGNATED BIT is designed to be a high performance “free cutting” bit. Its exceptional durability and superior abrasion resistance have proven to increase penetration rates by 30% and extend overall bit life by 60%. The “V” profile and unique matrix formula are unmatchable in the industry. The “V” shaped cutting segments and the high speed flushing channels reduce the contact area providing unparalleled penetration rates.

SURFACE SET BITS

Our SURFACE SET DIAMOND BITS are the optimal choice when drilling in softer formations. Natural stone diamonds are hand selected and hand set in a hard matrix.

With many design possibilities we can manufacture a bit for any formation that will maximize penetration rates and increase overall performance. This bit can be manufactured using a variety of diamond stone sizes, grades and crown profiles.

CROWN PROFILES:

- Semi-round
- Multi-step
- Two Wide Set with Face Discharge
- Spiral Semi-round

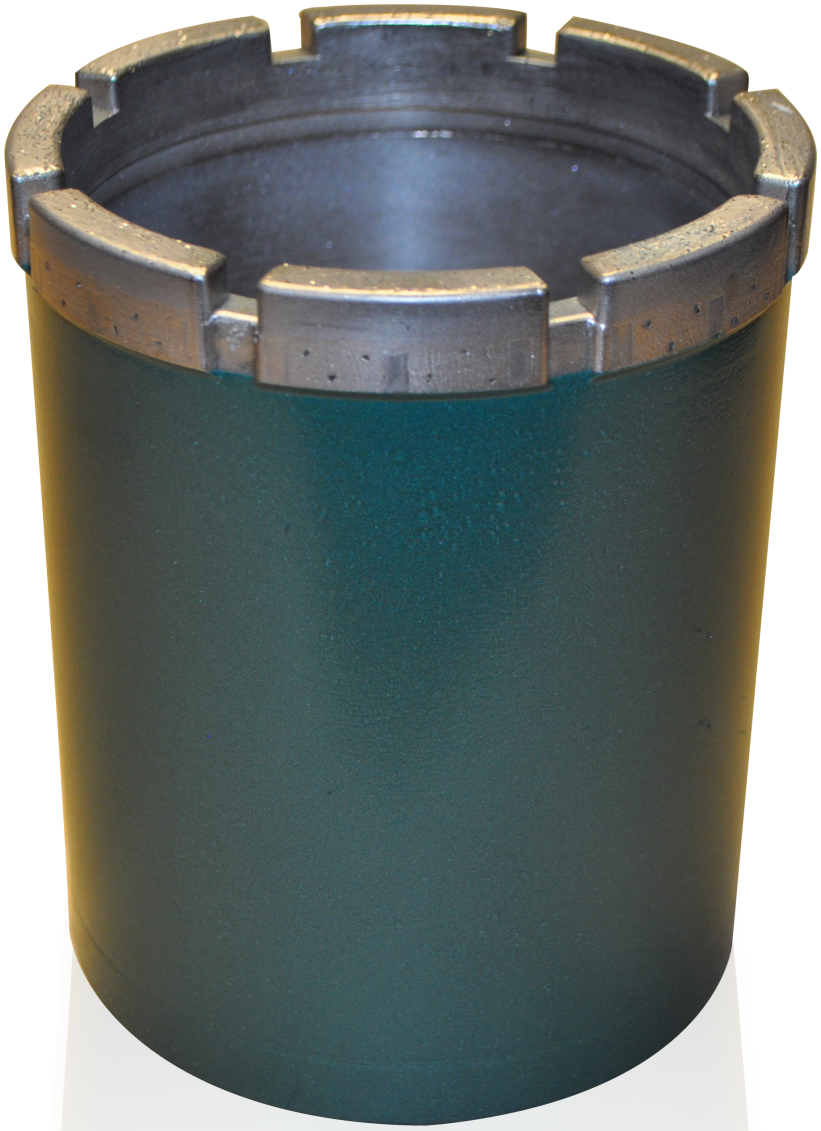
Our PCD BITS or Polycrystalline Compact Diamond Bits are the optimal choice when drilling in soft to medium formations.

PCD Bits are manufactured using a wear resistant matrix in the body and diamond reinforcements on the OD and ID. The PCD cutters are available in several sizes and can be individually replaced or rotated as they become worn to prolong the life of the bit. PCD Bits can be used with water, mud, or air flushing and are available in several designs including Flat-faced, Beehive and Coring.

Casing Shoes come in two types of thread standard straight thread and tapered thread.

Standard thread casing shoes are intended for single use applications where the casing is left in the hole.

Tapered Threads are built for repeated use. The tapered threads allow for easier disassembly and the coarse pitch allows for faster make up.



Geo-Set (Thermally Stable Diamonds) are well suited for soft to medium-hard formations. They offer a cost effective alternative to large stone Surface Set bits.

Like the Surface Set bit the TSP's are cast in a tough matrix with broached diamond reinforcements. The smaller cutters allow the Geo-Set to be used in harder formations than the PCD bits, and softer formations than standard Surface Set bits.

TUNGSTEN CARBIDE BITS

Tungsten Carbide Bits offer an economical alternative to our PCD (Polycrystalline Compact Diamond) in soft formations.

These bits work well in most sedimentary and soft weathered igneous formations.

We offer Core Sampling bits in three styles:

- MBA (Metal Bonded Abrasive)
- Surface Set
- Impregnated

Custom built to suit your needs.

REAMING SHELLS

Our Reaming Shells are designed to provide greater stabilization and insure full hole dimension to improve drilling efficiency and extend bit and drill string life.

Our raised pad spiral design is manufactured using our unique matrix combined with high quality synthetic diamonds. We offer many design possibilities and can manufacture a reamer for any formation that will maximize penetration rates and increase overall performance.

Our Reaming Shells are offered in the following designs.

· Spiral Impregnated

· Spiral Broached

· Straight Broached

HOLE OPENERS

Hole Openers consist of a Stinger that follows a predrilled hole with either a hard faced tip or a rod bit at one end.

On the other end is the larger bit used to widen the preexisting hole. Hole Opener bits and Stingers are custom built to suit any need.

Core Boxes are waxed cardboard boxes designed to hold core samples.

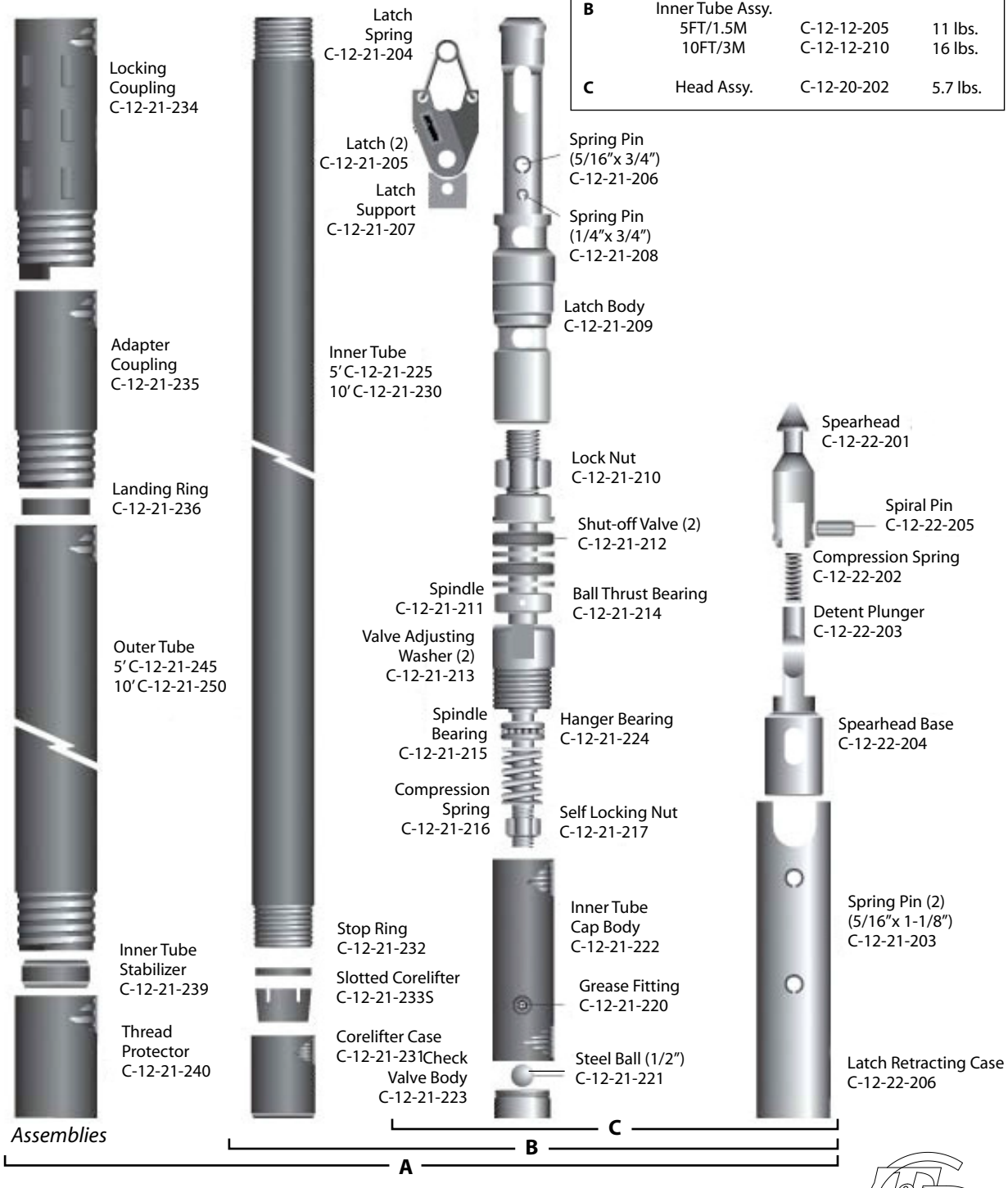
The sturdy construction and water-repellent coating protect your core samples from harsh elements. Each box is pre-stamped on the end to provide for easy sample identification and tracking. Core Boxes are sold in sets of 10 and shipped flat for reduced bulk.

*N W/L and H W/L boxes hold 10' of core (5-2' rows)
**P W/L boxes hold 4' of core (2-2' rows)

A W/L-ABOVE GROUND WIRELINE CORE BARREL

ASSEMBLIES

Group	Description	Part Number	Weight
A	Corebarrel Assy.		
	5FT/1.5M	C-12-02-205	35 lbs.
	10FT/3M	C-12-02-210	58 lbs.
B	Inner Tube Assy.		
	5FT/1.5M	C-12-12-205	11 lbs.
	10FT/3M	C-12-12-210	16 lbs.
C	Head Assy.	C-12-20-202	5.7 lbs.

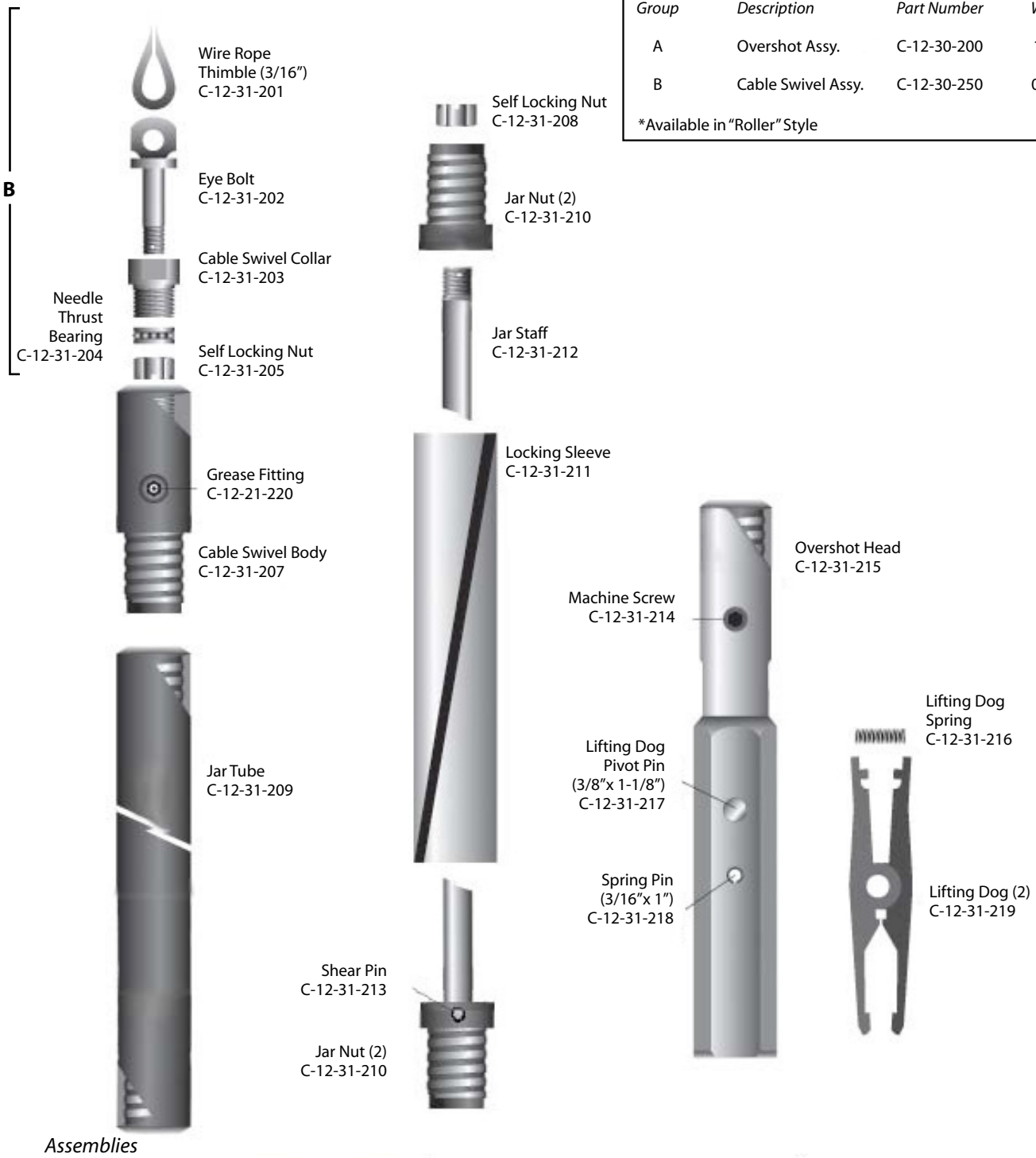


A W/L ABOVE GROUND WIRELINE OVERSHOT

ASSEMBLIES

Group	*Description*	*Part Number*	*Weight*
A	Overshot Assy.	C-12-30-200	17 lbs.
B	Cable Swivel Assy.	C-12-30-250	0.6 lbs.

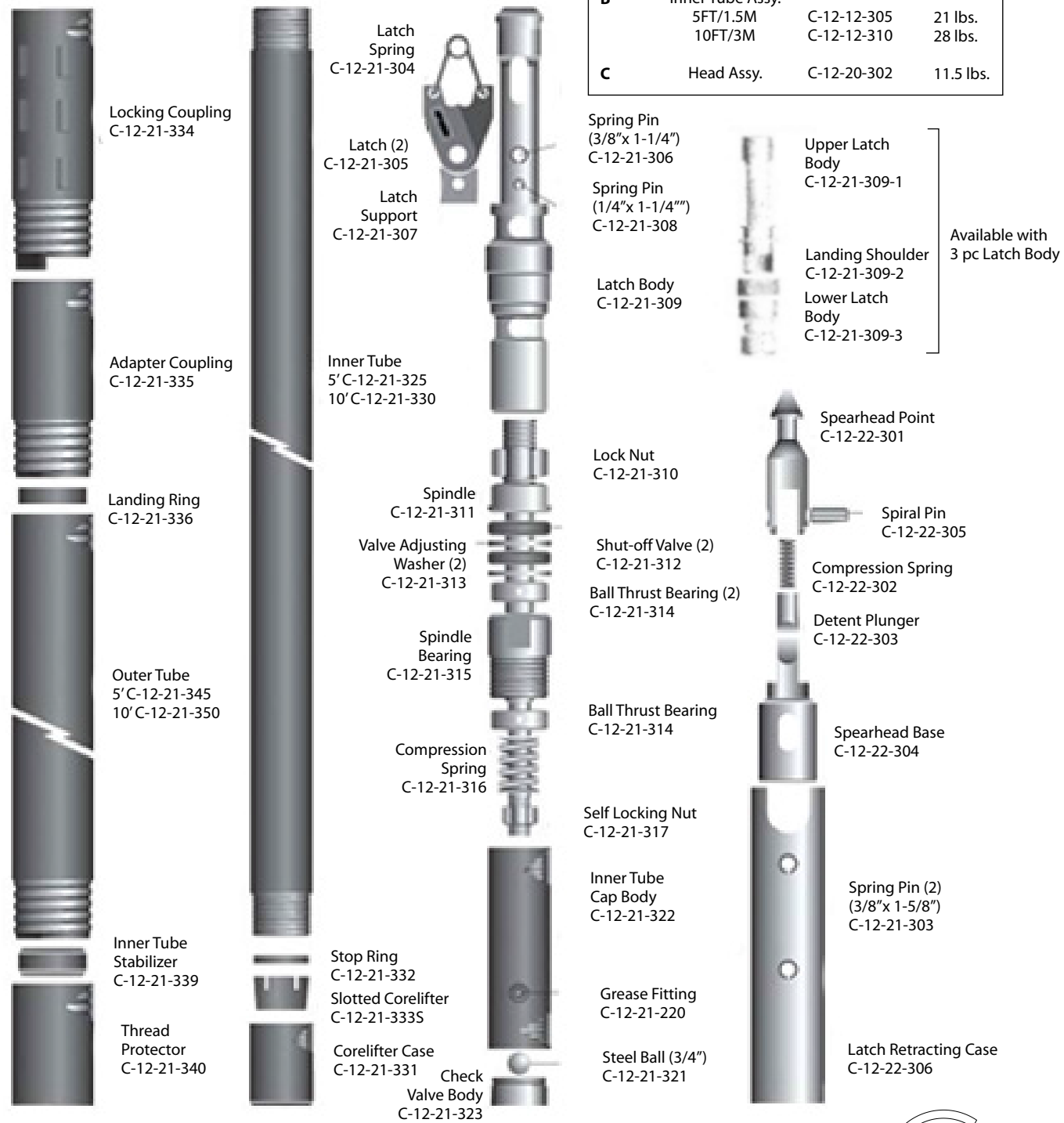
*Available in "Roller" Style



B W/L ABOVE GROUND WIRELINE CORE BARREL

ASSEMBLIES

Group	Description	Part Number	Weight
A	Corebarrel Assy.		
	5FT/1.5M	C-12-02-305	54 lbs.
	10FT/3M	C-12-02-310	90 lbs.
B	Inner Tube Assy.		
	5FT/1.5M	C-12-12-305	21 lbs.
	10FT/3M	C-12-12-310	28 lbs.
C	Head Assy.	C-12-20-302	11.5 lbs.

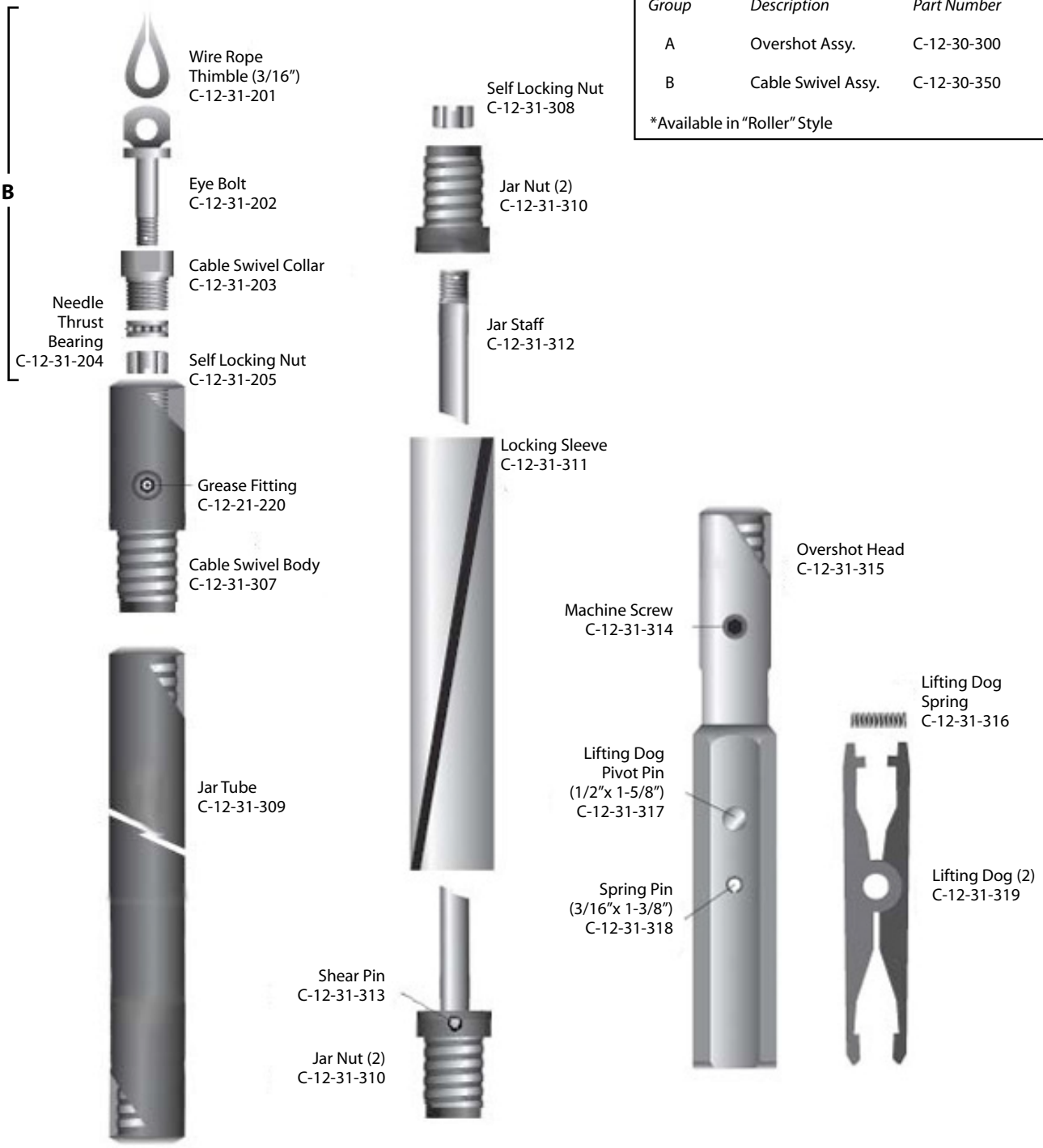


B W/L ABOVE GROUND WIRELINE OVERSHOT

ASSEMBLIES

Group	*Description*	*Part Number*	*Weight*
A	Overshot Assy.	C-12-30-300	23 lbs.
B	Cable Swivel Assy.	C-12-30-350	0.6 lbs.

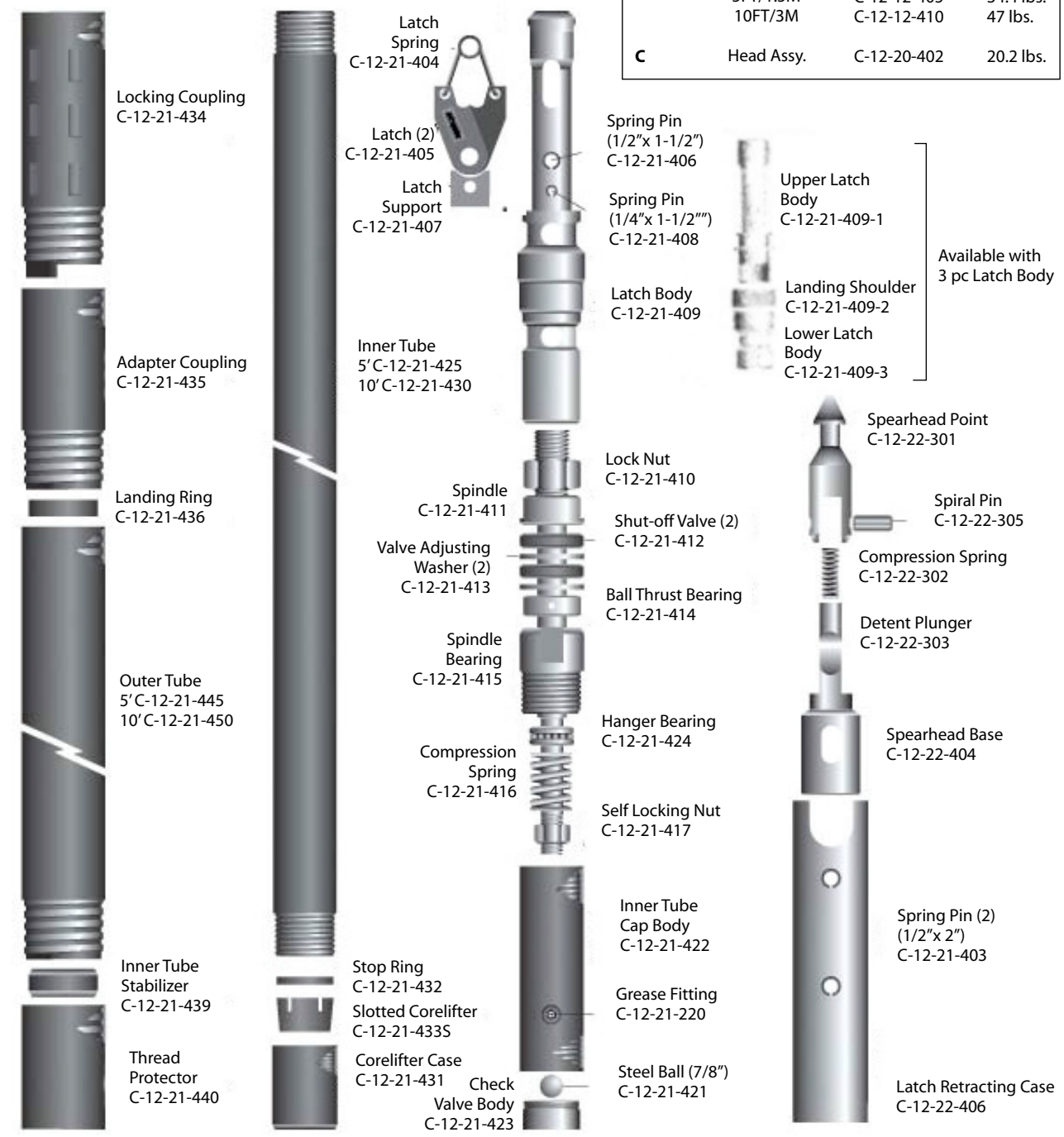
*Available in "Roller" Style



N W/L ABOVE GROUND WIRELINE CORE BARREL

ASSEMBLIES

Group	Description	Part Number	Weight
A	Corebarrel Assy.		
	5FT/1.5M	C-12-02-405	89.7 lbs.
	10FT/3M	C-12-02-410	138 lbs.
B	Inner Tube Assy.		
	5FT/1.5M	C-12-12-405	34.4 lbs.
	10FT/3M	C-12-12-410	47 lbs.
C	Head Assy.	C-12-20-402	20.2 lbs.

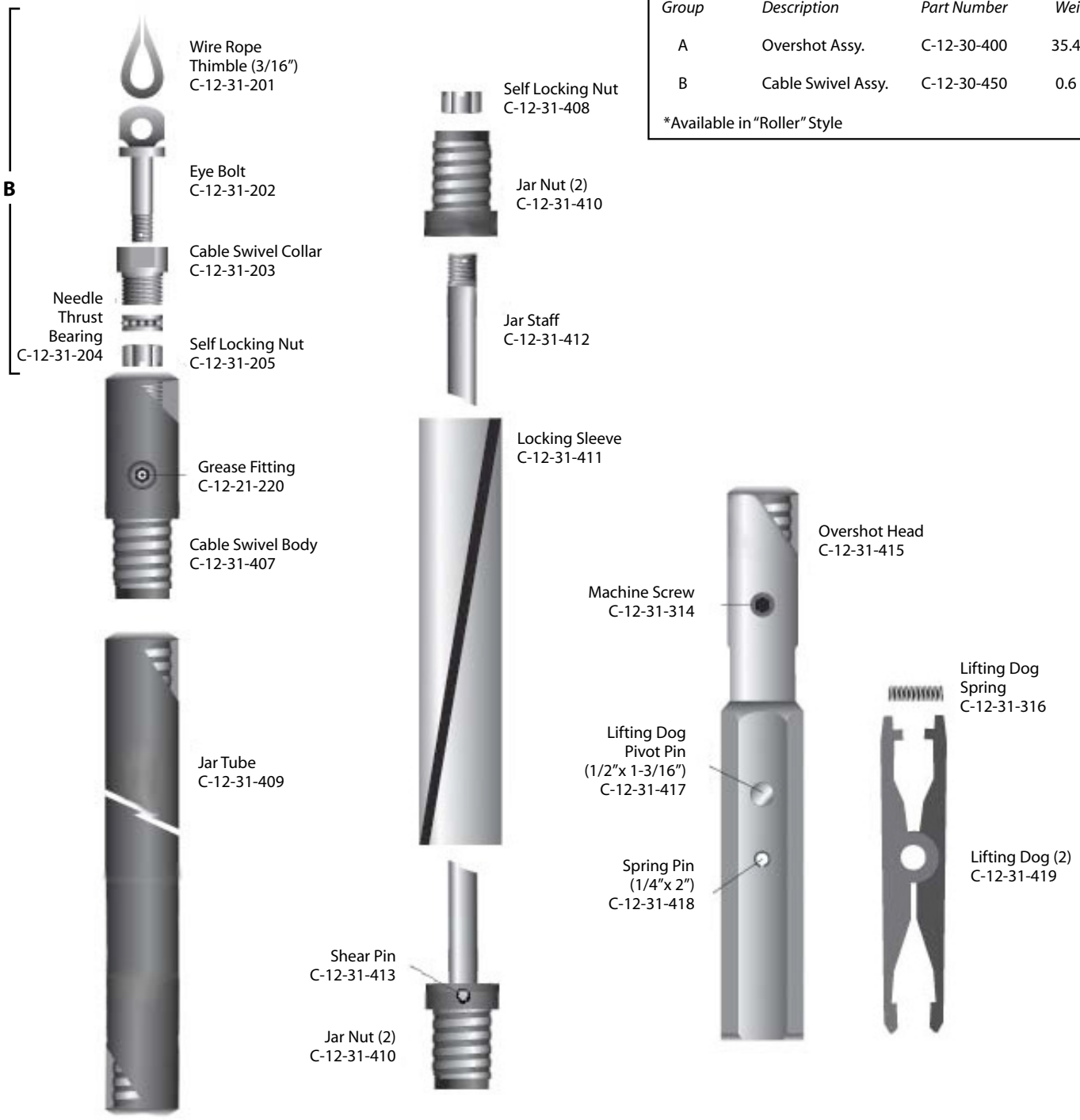


N W/L ABOVE GROUND WIRELINE OVERSHOT

ASSEMBLIES

Group	*Description*	*Part Number*	*Weight*
A	Overshot Assy.	C-12-30-400	35.4 lbs.
B	Cable Swivel Assy.	C-12-30-450	0.6 lbs.

*Available in "Roller" Style

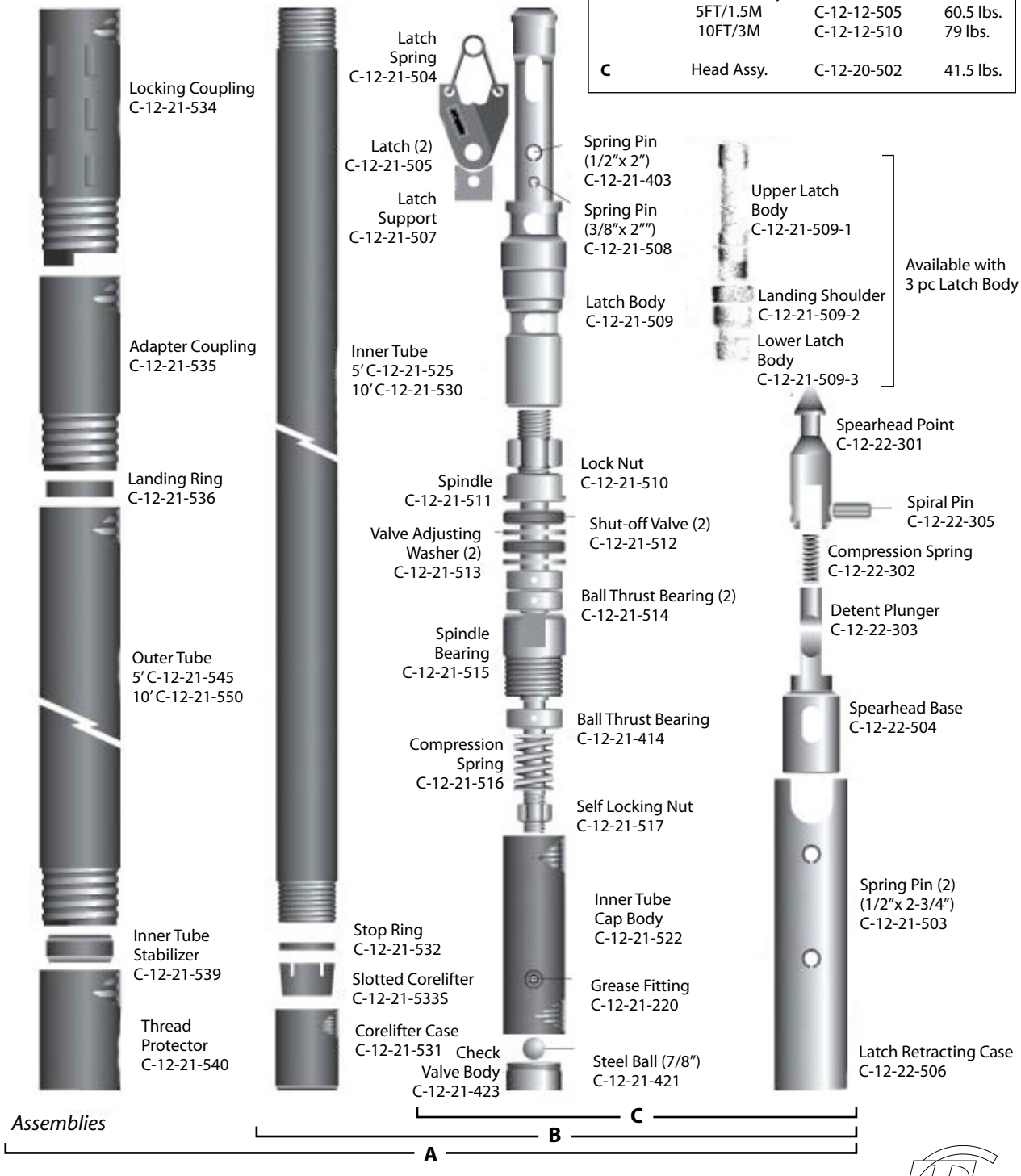


Assemblies

H W/L ABOVE GROUND WIRELINE CORE BARREL

ASSEMBLIES

Group	*Description*	*Part Number*	*Weight*
A	Corebarrel Assy.		
	5FT/1.5M	C-12-02-505	145 lbs.
	10FT/3M	C-12-02-510	214.5 lbs.
B	Inner Tube Assy.		
	5FT/1.5M	C-12-12-505	60.5 lbs.
	10FT/3M	C-12-12-510	79 lbs.
C	Head Assy.	C-12-20-502	41.5 lbs.

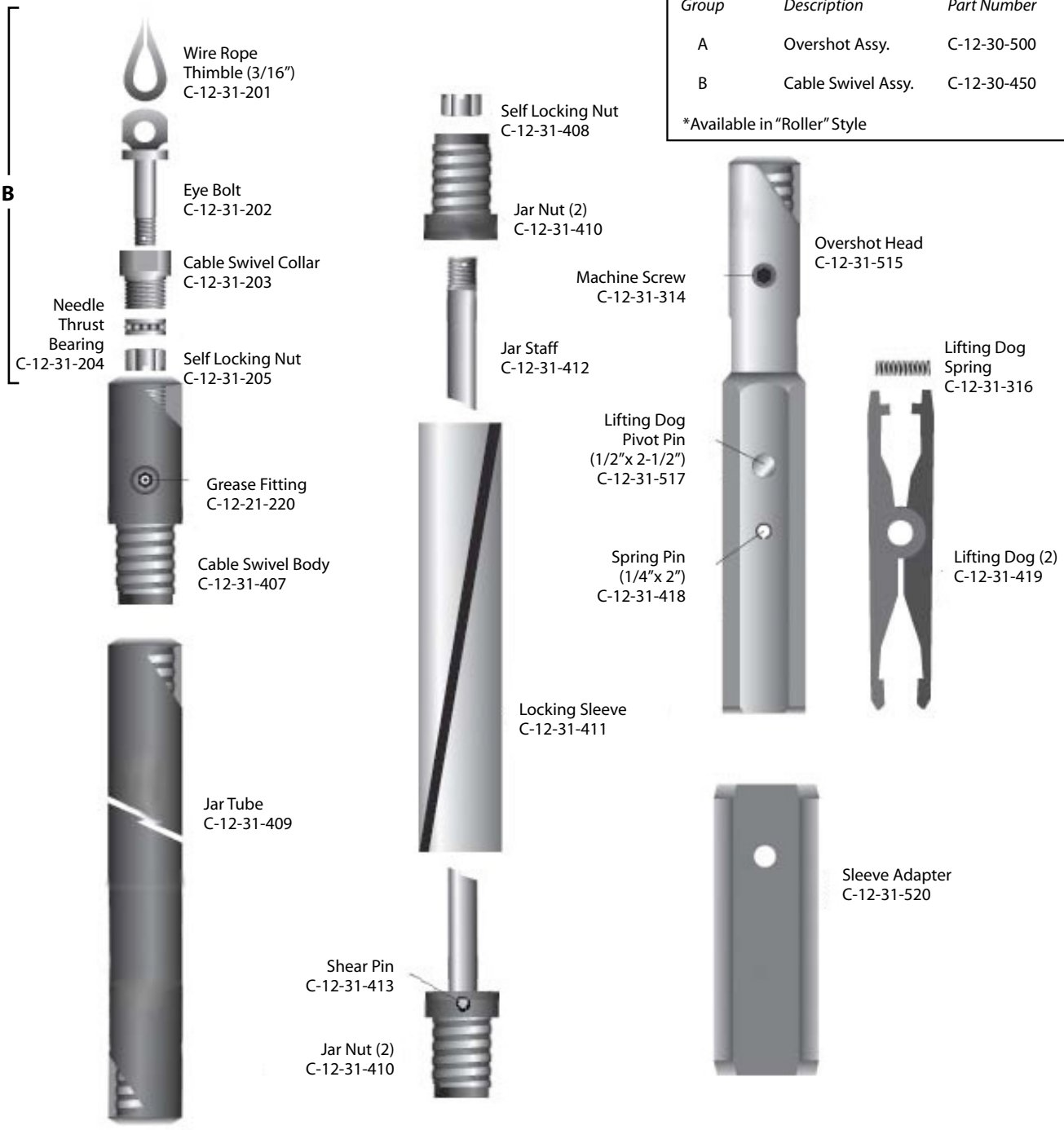


H W/L ABOVE GROUND WIRELINE OVERSHOT

ASSEMBLIES

Group	*Description*	*Part Number*	*Weight*
A	Overshot Assy.	C-12-30-500	38.6 lbs.
B	Cable Swivel Assy.	C-12-30-450	0.6 lbs.

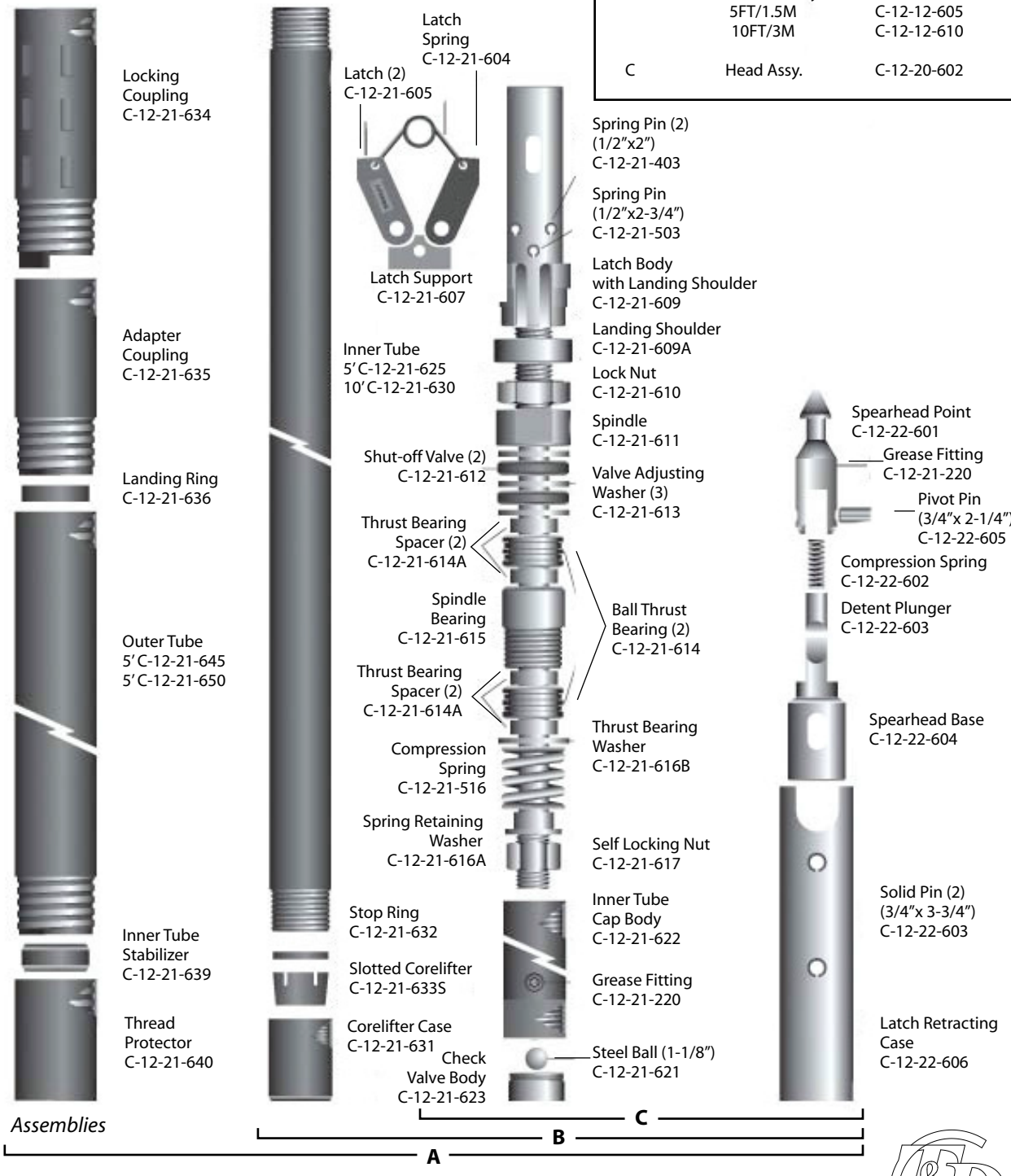
*Available in "Roller" Style



Assemblies

ASSEMBLIES

Group	*Description*	*Part Number*	*Weight*
A	*Corebarrel Assy.*		
	5FT/1.5M	C-12-02-605	232 lbs.
	10FT/3M	C-12-02-610	325 lbs.
B	Inner Tube Assy.		
	5FT/1.5M	C-12-12-605	116 lbs.
	10FT/3M	C-12-12-610	142 lbs.
C	Head Assy.	C-12-20-602	87.5 lbs

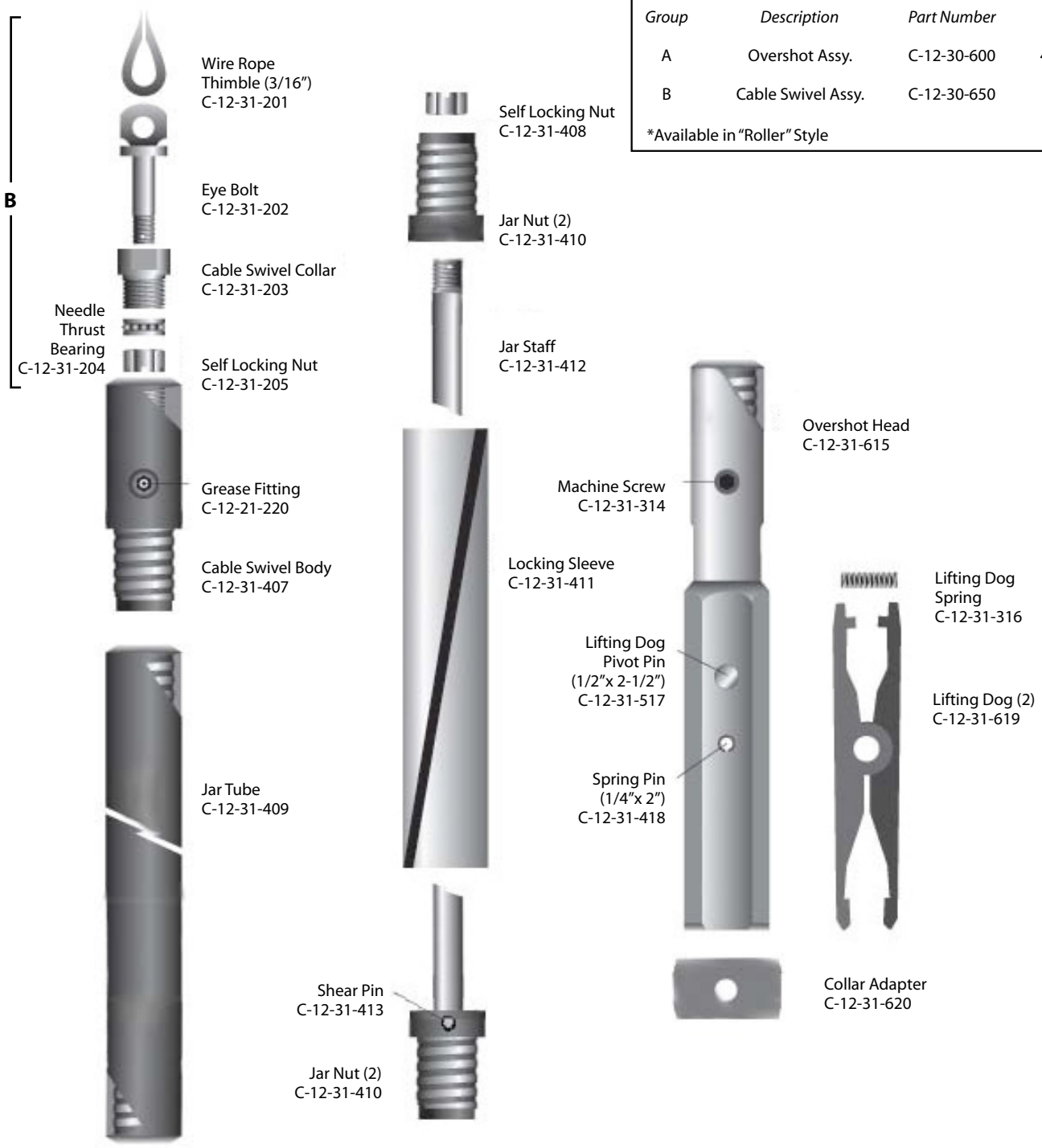


P W/L ABOVE GROUND WIRELINE OVERSHOT

ASSEMBLIES

Group	*Description*	*Part Number*	*Weight*
A	Overshot Assy.	C-12-30-600	49.2 lbs.
B	Cable Swivel Assy.	C-12-30-650	1.1 lbs.

*Available in "Roller" Style



Assemblies

TUBE OPTIONS

Chrome Plated
Outer Tube

5′
A W/L: C-12-21-285
B W/L: C-12-21-385
N W/L: C-12-21-485
H W/L: C-12-21-585
P W/L: C-12-21-685

10′
A W/L: C-12-21-290
B W/L: C-12-21-390
N W/L: C-12-21-490
H W/L: C-12-21-590
P W/L: C-12-21-690

Chrome Plated
Inner Tube

5′
A W/L: C-12-21-275
B W/L: C-12-21-375
N W/L: C-12-21-475
H W/L: C-12-21-575
P W/L: C-12-21-675

10′
A W/L: C-12-21-280
B W/L: C-12-21-380
N W/L: C-12-21-480
H W/L: C-12-21-580
P W/L: C-12-21-680

Inner Tube Coupling

A W/L: C-12-21-291
B W/L: C-12-21-391
N W/L: C-12-21-491
H W/L: C-12-21-591
P W/L: C-12-21-691

Inner Tube Extension

A W/L: C-12-21-292
B W/L: C-12-21-392
N W/L: C-12-21-492
H W/L: C-12-21-592
P W/L: C-12-21-692

Broached Corelifter

A W/L: C-12-21-233B
B W/L: C-12-21-333B
N W/L: C-12-21-433B
H W/L: C-12-21-533B
P W/L: C-12-21-633B

N W/L-2: C-12-27-433B

N W/L-3: C-14-21-433B
H W/L-3: C-14-21-533B
P W/L-3: C-14-21-633B

Twin Corelifter Case

B W/L: C-12-21-331T
N W/L: C-12-21-431T

WRENCHES

Inner Tube Wrench

B W/L: C-12-21-360
N W/L: C-12-21-460
H W/L: C-12-21-560
P W/L C-12-21-660

Outer Tube Wrench

B W/L: C-12-21-361
N W/L: C-12-21-461
H W/L: C-12-21-561
P W/L C-12-21-661

TRIPLE TUBE (W/L-3) CONVERSION KIT

KITS

Type		*Part Number*	*Weight*
B W/L-3	5FT/1.5M	C-14-19-305	5.7 lbs.
	10FT/3M	C-14-19-310	9.7 lbs.
N W/L-3	5FT/1.5M	C-14-19-405	9.1 lbs.
	10FT/3M	C-14-19-410	14.1 lbs.
H W/L-3	5FT/1.5M	C-14-19-505	13.1 lbs.
	10FT/3M	C-14-19-510	18.1 lbs.
P W/L-3	5FT/1.5M	C-14-19-605	15 lbs.
	10FT/3M	C-14-19-610	20 lbs.

Piston Plug

B W/L-3: C-14-21-338
N W/L-3: C-14-21-338
H W/L-3: C-14-21-338
P W/L-3: C-14-21-338

Adapter

B W/L-3: C-14-21-337
N W/L-3: C-14-21-437
H W/L-3: C-14-21-537
P W/L-3: C-14-21-637

O-Ring

B W/L-3: C-14-21-326
N W/L-3: C-14-21-426
H W/L-3: C-14-21-526
P W/L-3: C-14-21-626

Piston

B W/L-3: C-14-21-327
N W/L-3: C-14-21-427
H W/L-3: C-14-21-527
P W/L-3: C-14-21-627

Split Tube

5′
B W/L-3: C-14-21-328
N W/L-3: C-14-21-428
H W/L-3: C-14-21-528
P W/L-3: C-14-21-628

10′
B W/L-3: C-14-21-329
N W/L-3: C-14-21-429
H W/L-3: C-14-21-529
P W/L-3: C-14-21-629

Stop Ring

B W/L-3: C-14-21-332
N W/L-3: C-14-21-432
H W/L-3: C-14-21-532
P W/L-3: C-14-21-632
*Available in "Solid" Style

Corelifter

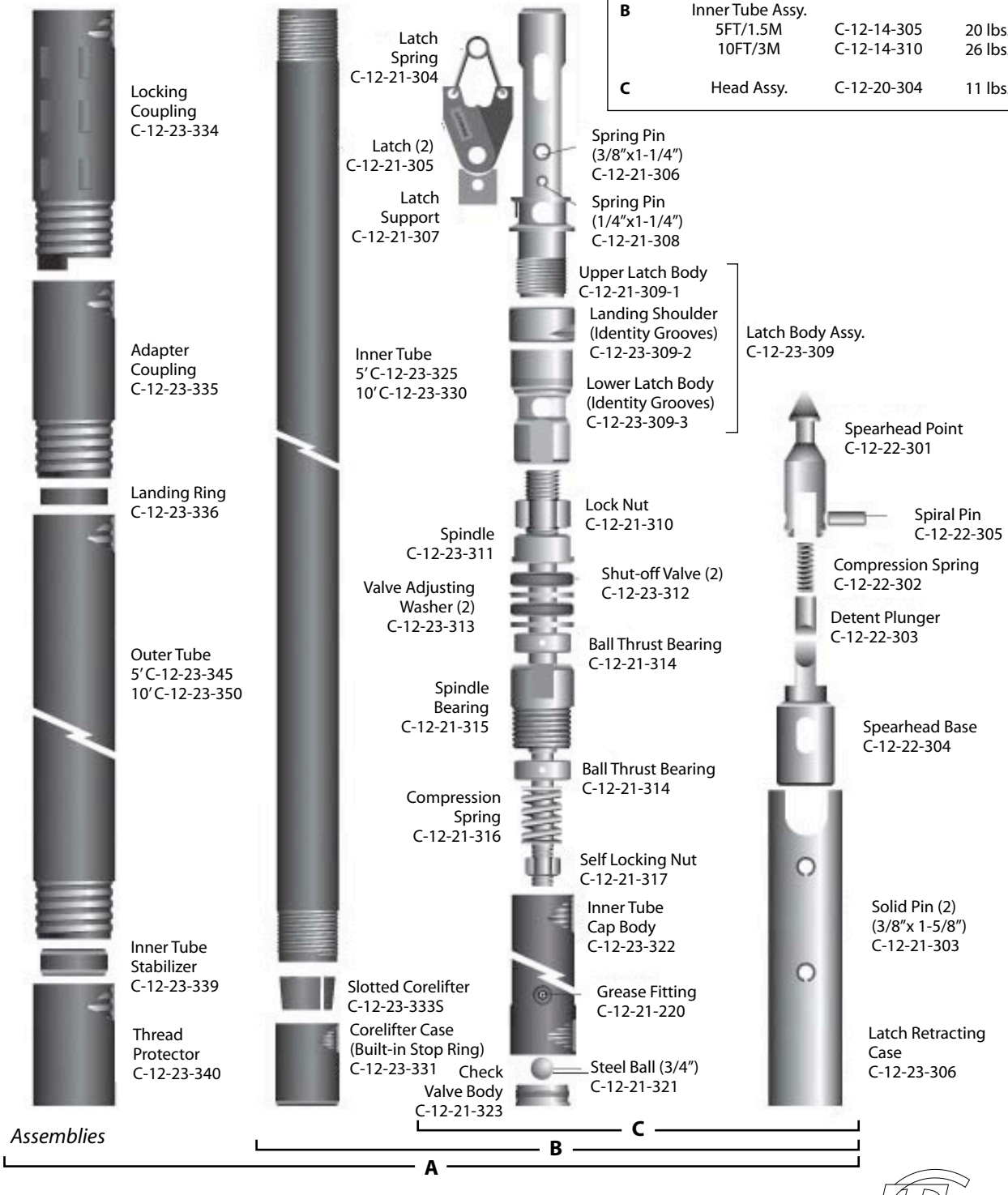
B W/L-3: C-14-21-333S
N W/L-3: C-14-21-433S
H W/L-3: C-14-21-533S
P W/L-3: C-14-21-633S

Corelifter Case

B W/L-3: C-14-21-331
N W/L-3: C-14-21-431
H W/L-3: C-14-21-531
P W/L-3: C-14-21-631

ASSEMBLIES

Group	Description	Part Number	Weight
A	Corebarrel Assy.		
	5FT/1.5M	C-12-04-305	49 lbs.
	10FT/3M	C-12-04-310	74 lbs.
B	Inner Tube Assy.		
	5FT/1.5M	C-12-14-305	20 lbs.
	10FT/3M	C-12-14-310	26 lbs.
C	Head Assy.	C-12-20-304	11 lbs.

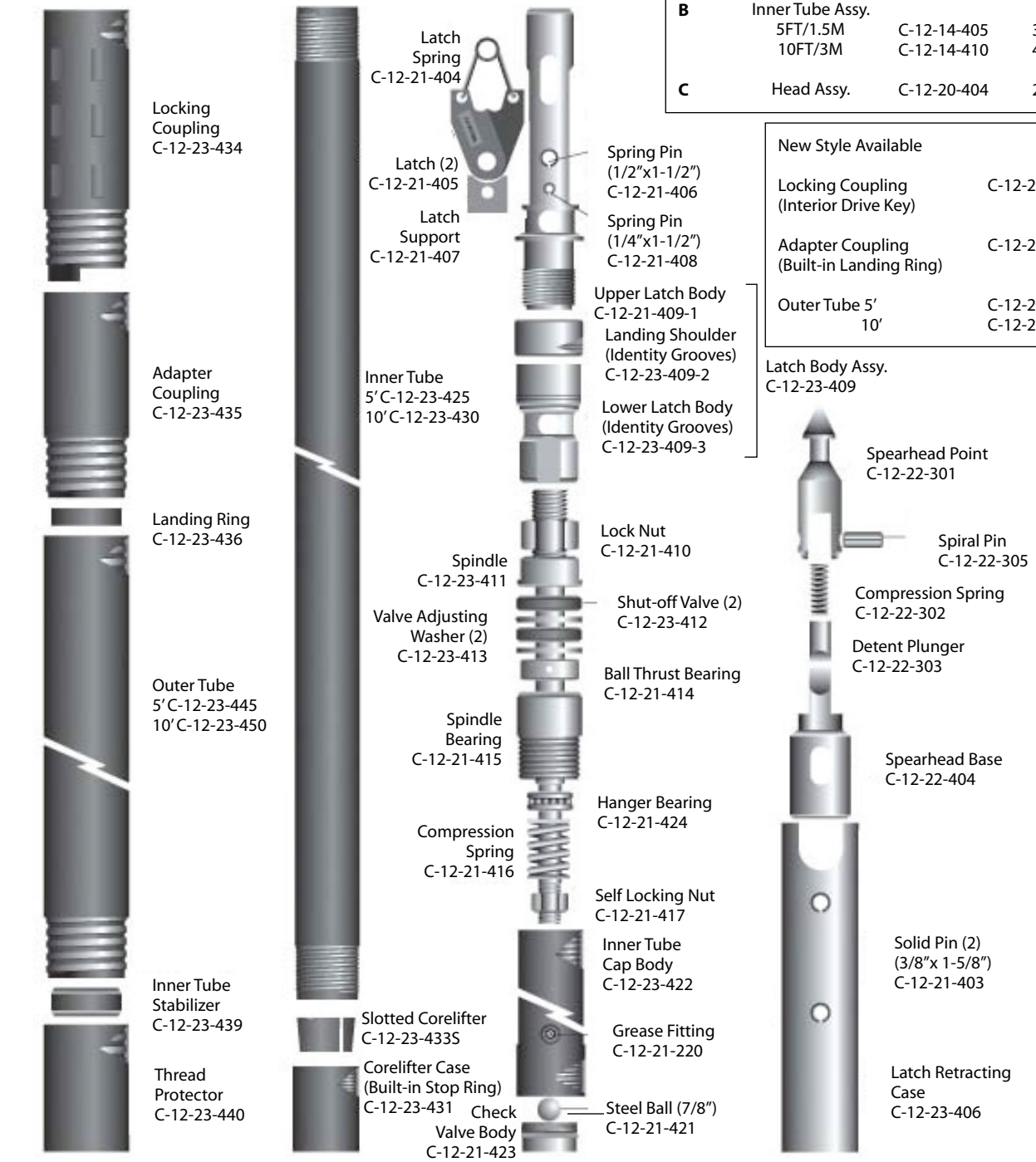


ASSEMBLIES

Group	Description	Part Number	Weight
A	Corebarrel Assy.		
	5FT/1.5M	C-12-04-405	75 lbs.
	10FT/3M	C-12-04-410	110 lbs.
B	Inner Tube Assy.		
	5FT/1.5M	C-12-14-405	32 lbs.
	10FT/3M	C-12-14-410	40 lbs.
C	Head Assy.	C-12-20-404	21 lbs.

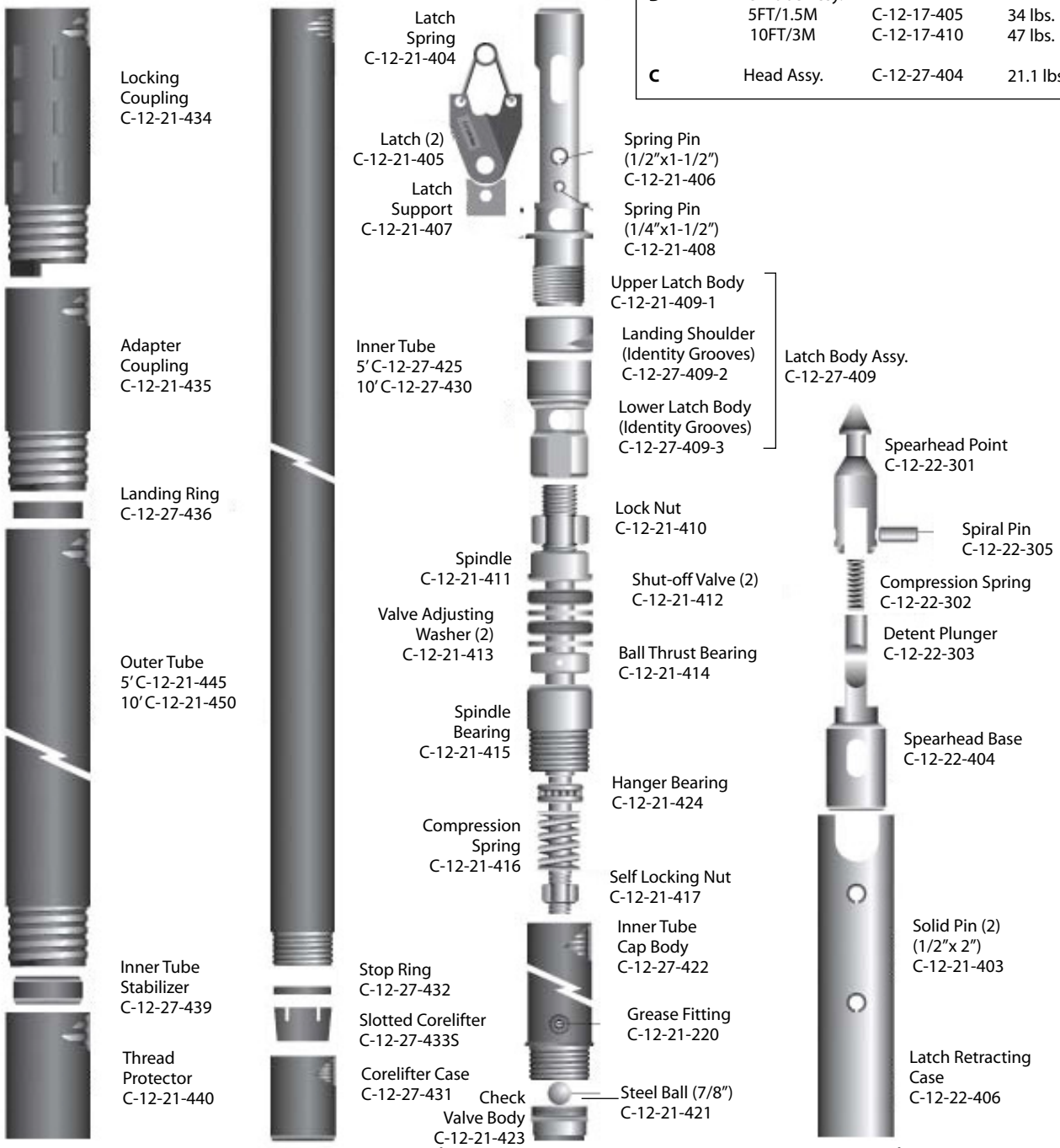
New Style Available

Locking Coupling (Interior Drive Key)	C-12-23-434NS
Adapter Coupling (Built-in Landing Ring)	C-12-23-435NS
Outer Tube 5′	C-12-23-445NS
10′	C-12-23-450NS



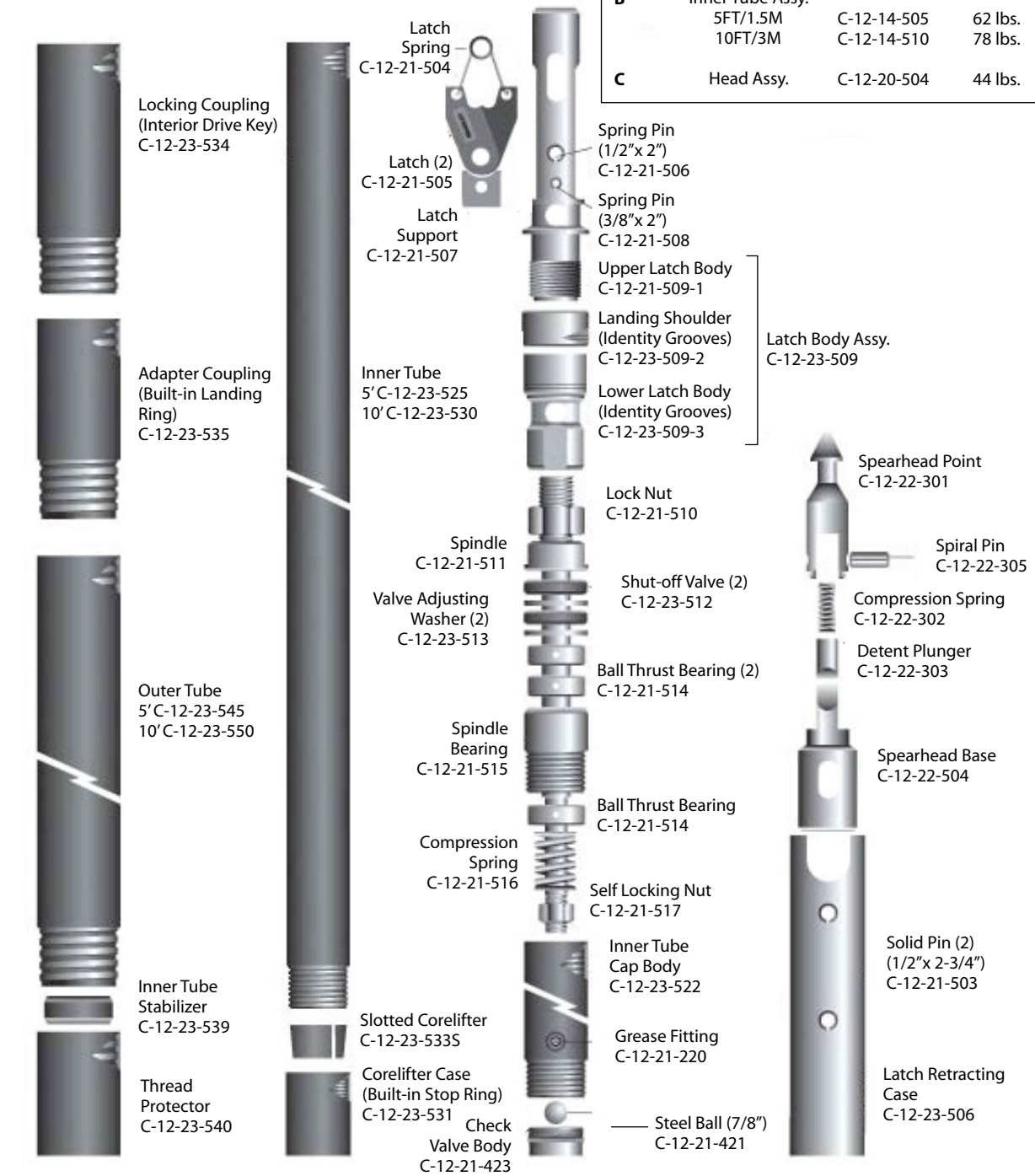
ASSEMBLIES

Group	Description	Part Number	Weight
A	Corebarrel Assy.		
	5FT/1.5M	C-12-07-405	89.7 lbs.
	10FT/3M	C-12-07-410	138 lbs.
B	Inner Tube Assy.		
	5FT/1.5M	C-12-17-405	34 lbs.
	10FT/3M	C-12-17-410	47 lbs.
C	Head Assy.	C-12-27-404	21.1 lbs.



ASSEMBLIES

Group	Description	Part Number	Weight
A	Corebarrel Assy.		
	5FT/1.5M	C-12-04-505	129 lbs.
	10FT/3M	C-12-04-510	185 lbs.
B	Inner Tube Assy.		
	5FT/1.5M	C-12-14-505	62 lbs.
	10FT/3M	C-12-14-510	78 lbs.
C	Head Assy.	C-12-20-504	44 lbs.



THIN WALL TUBE OPTIONS

Chrome Plated
Outer Tube

5′
BTW: C-12-23-385
NTW: C-12-23-485
HTW: C-12-23-585

10′
BTW: C-12-23-390
NTW: C-12-23-490
HTW: C-12-23-590

Chrome Plated
Inner Tube

5′
BTW: C-12-23-375
NTW: C-12-23-475

10′
BTW: C-12-23-380
NTW: C-12-23-480

Inner Tube Coupling

BTW: C-12-23-391
NTW: C-12-23-491

Chrome Plated
Inner Tube

5′
N W/L-2: C-12-27-475
HTW: C-12-23-575

10′
N W/L-2: C-12-27-480
HTW: C-12-23-580

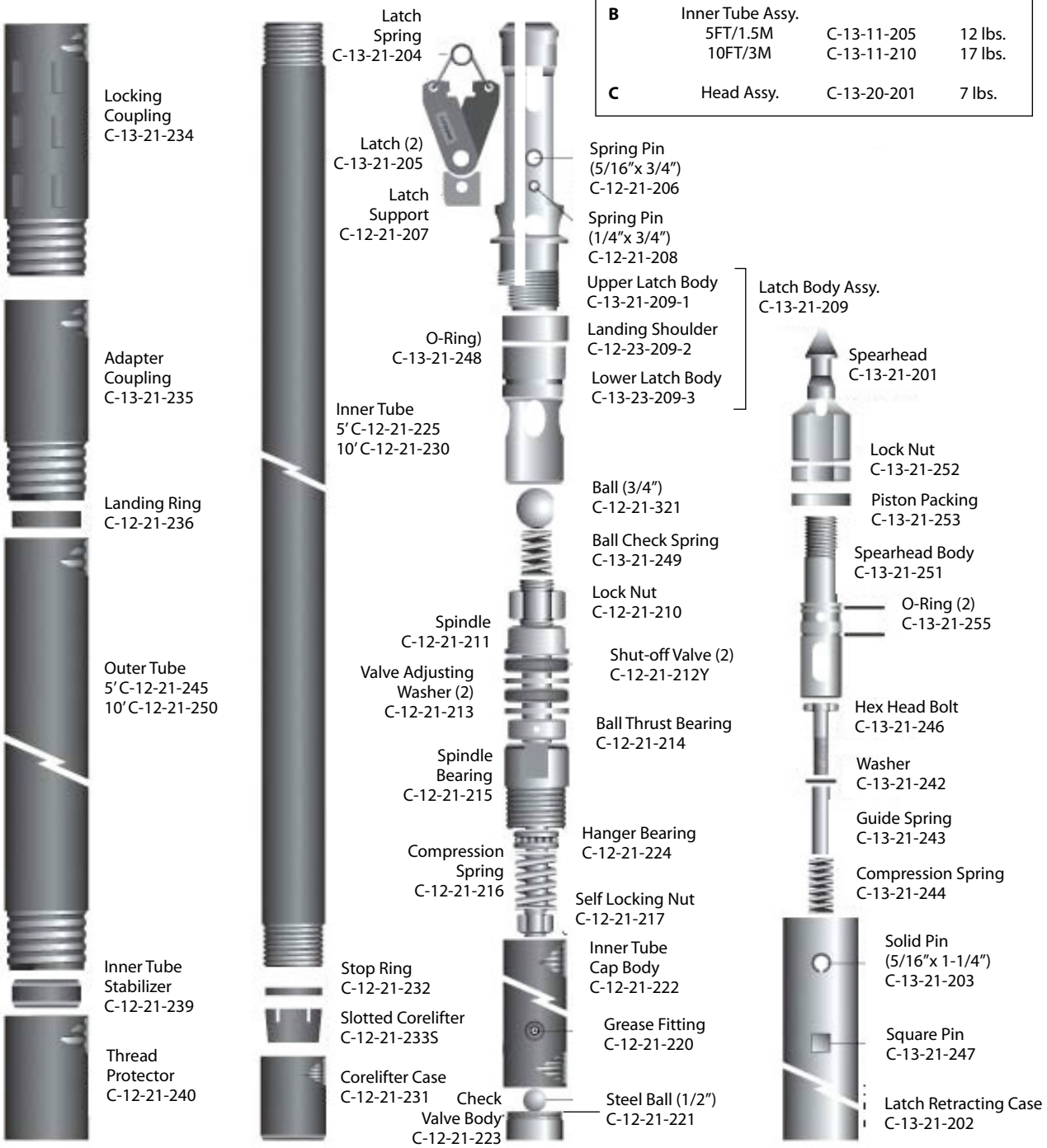
Inner Tube Extension

BTW: C-12-23-392
NTW: C-12-23-492
N W/L-2: C-12-27-492
HTW: C-12-23-592

A W/L-U UNDER GROUND WIRELINE CORE BARREL

ASSEMBLIES

Group	Description	Part Number	Weight
A	Corebarrel Assy.		
	5FT/1.5M	C-13-01-205	36 lbs.
	10FT/3M	C-13-01-210	59 lbs.
B	Inner Tube Assy.		
	5FT/1.5M	C-13-11-205	12 lbs.
	10FT/3M	C-13-11-210	17 lbs.
C	Head Assy.	C-13-20-201	7 lbs.

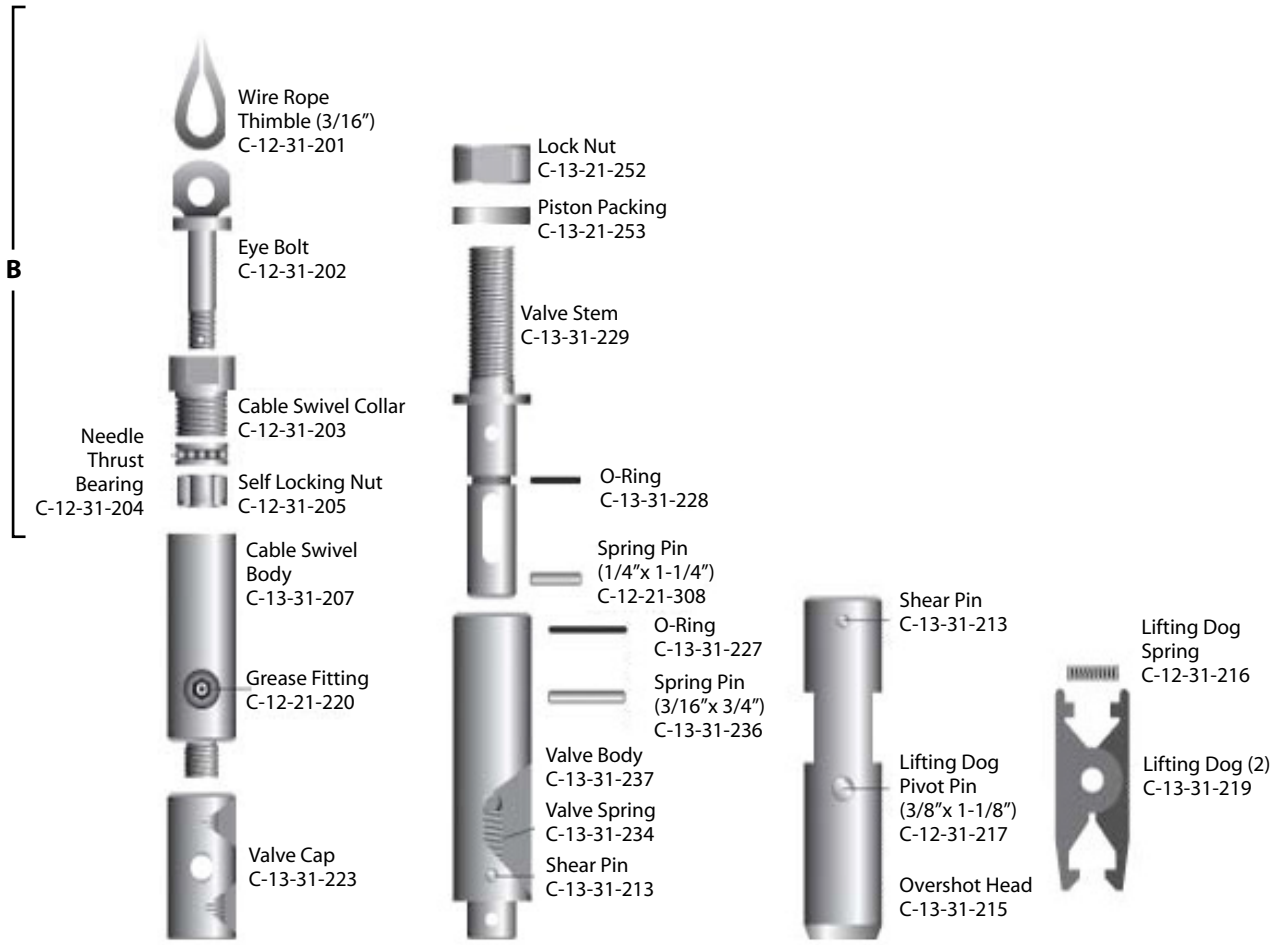


Assemblies

A W/L-U UNDER GROUND WIRELINE OVERSHOT

ASSEMBLIES

Group	*Description*	*Part Number*	*Weight*
A	Overshot Assy.	C-13-30-200	5 lbs.
B	Cable Swivel Assy.	C-12-30-250	0.6 lbs.

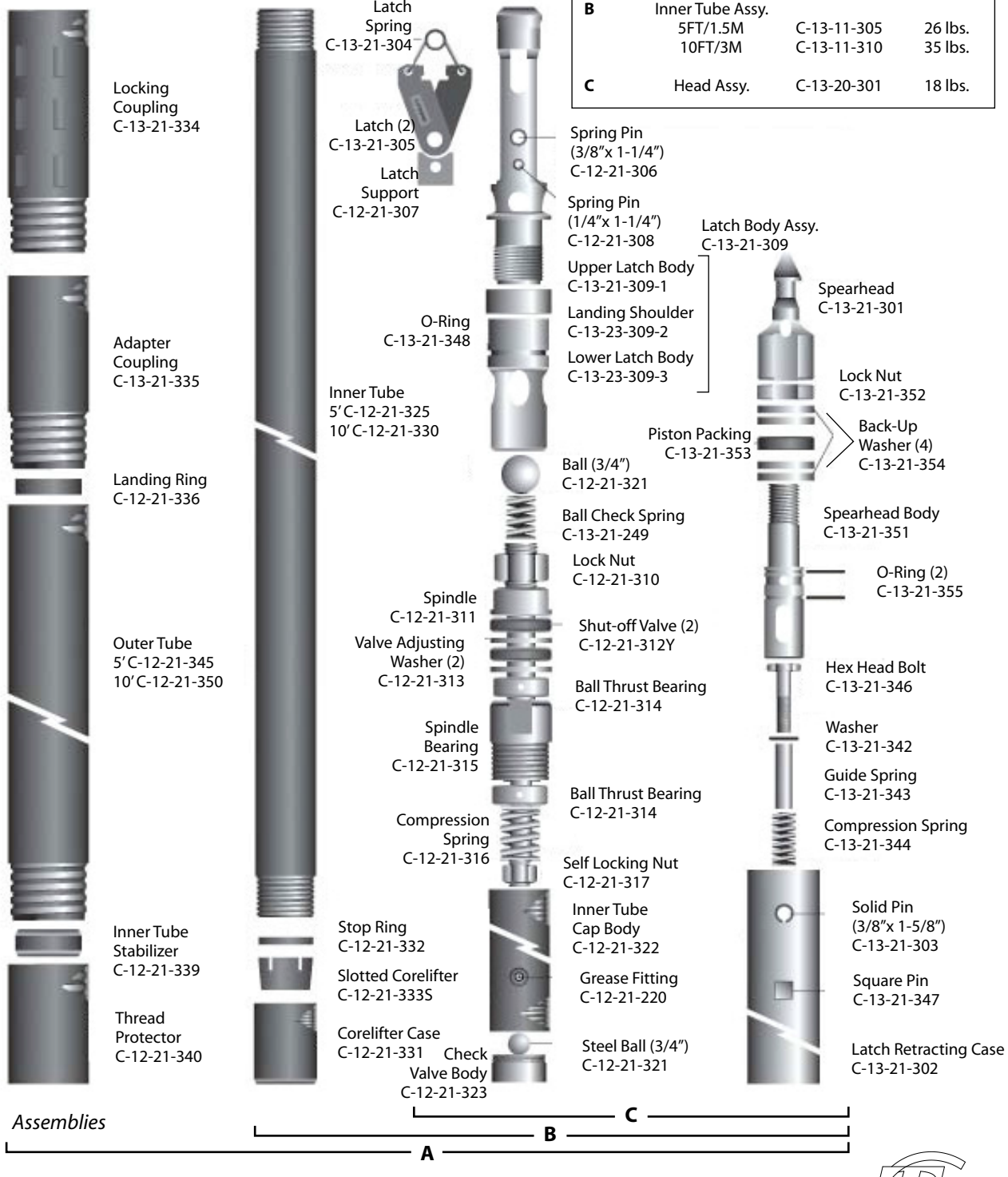


Assemblies

B W/L-U UNDER GROUND WIRELINE CORE BARREL

ASSEMBLIES

Group	*Description*	*Part Number*	*Weight*
A	Corebarrel Assy.		
	5FT/1.5M	C-13-01-305	63 lbs.
	10FT/3M	C-13-01-310	98 lbs.
B	Inner Tube Assy.		
	5FT/1.5M	C-13-11-305	26 lbs.
	10FT/3M	C-13-11-310	35 lbs.
C	Head Assy.	C-13-20-301	18 lbs.

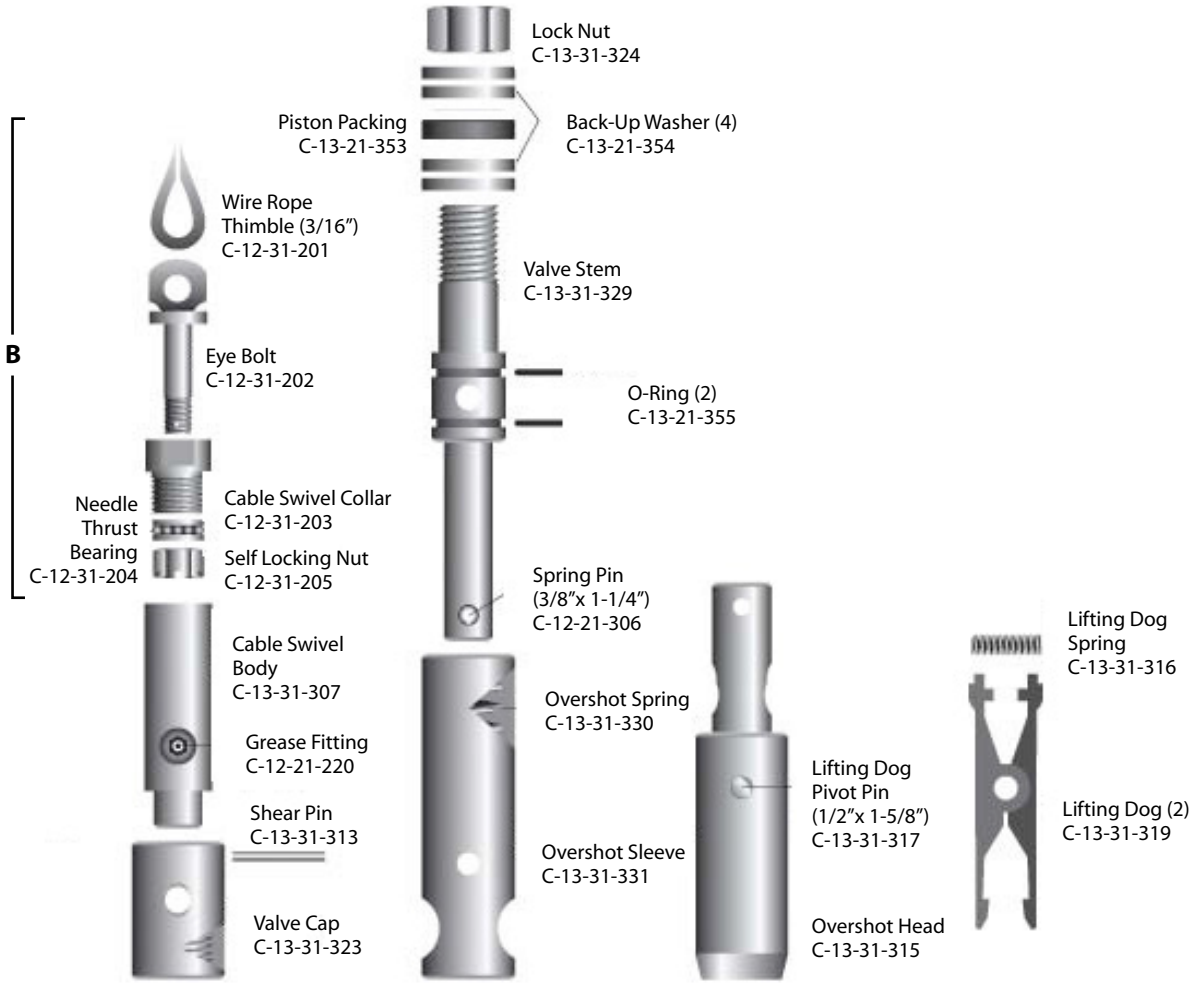


Assemblies

B W/L-U UNDER GROUND WIRELINE OVERSHOT

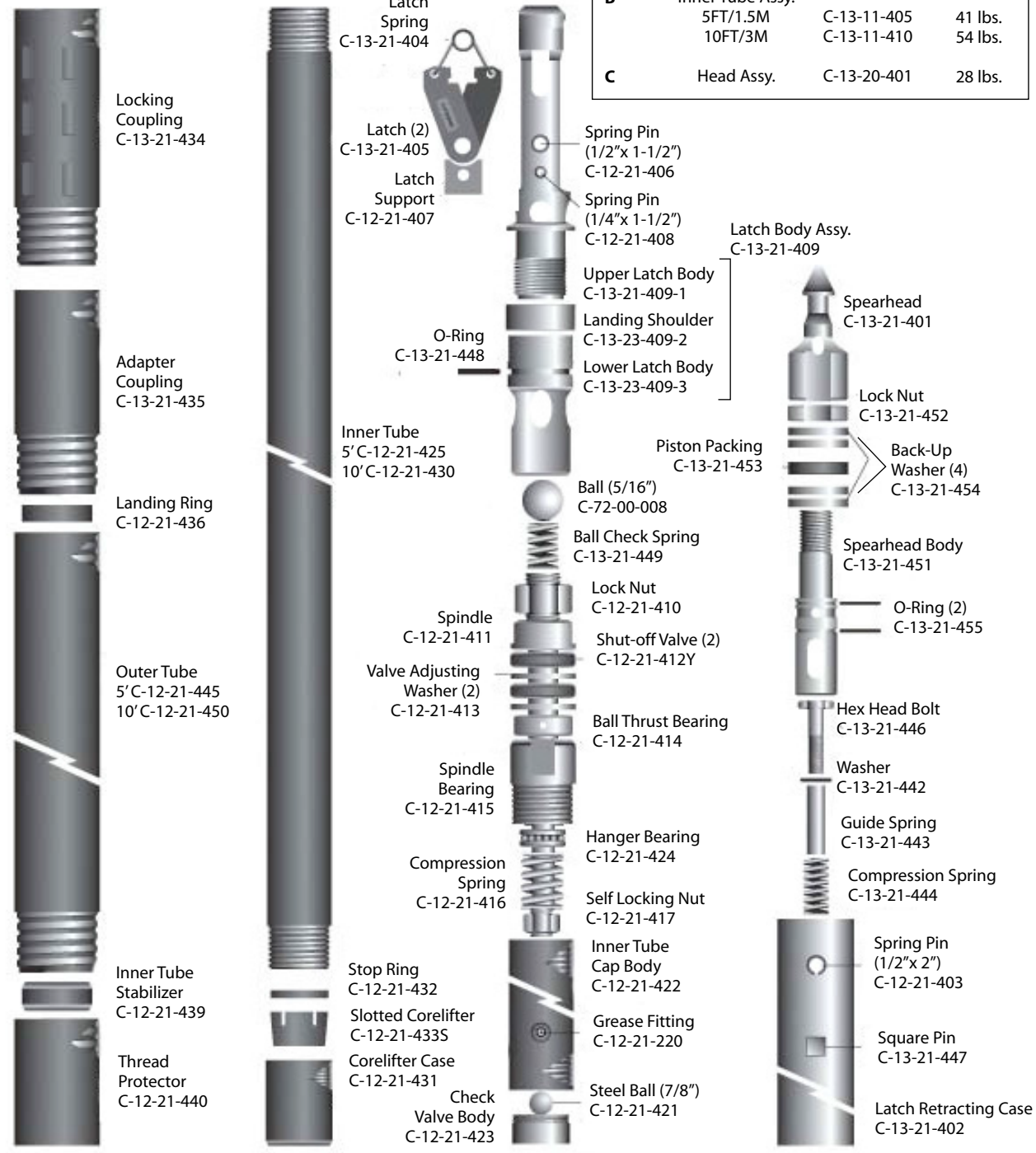
ASSEMBLIES

Group	*Description*	*Part Number*	*Weight*
A	Overshot Assy.	C-13-30-300	9 lbs.
B	Cable Swivel Assy.	C-12-30-250	0.6 lbs.



ASSEMBLIES

Group	Description	Part Number	Weight
A	Corebarrel Assy.		
	5FT/1.5M	C-13-01-405	96 lbs.
	10FT/3M	C-13-01-410	144 lbs.
B	Inner Tube Assy.		
	5FT/1.5M	C-13-11-405	41 lbs.
	10FT/3M	C-13-11-410	54 lbs.
C	Head Assy.	C-13-20-401	28 lbs.

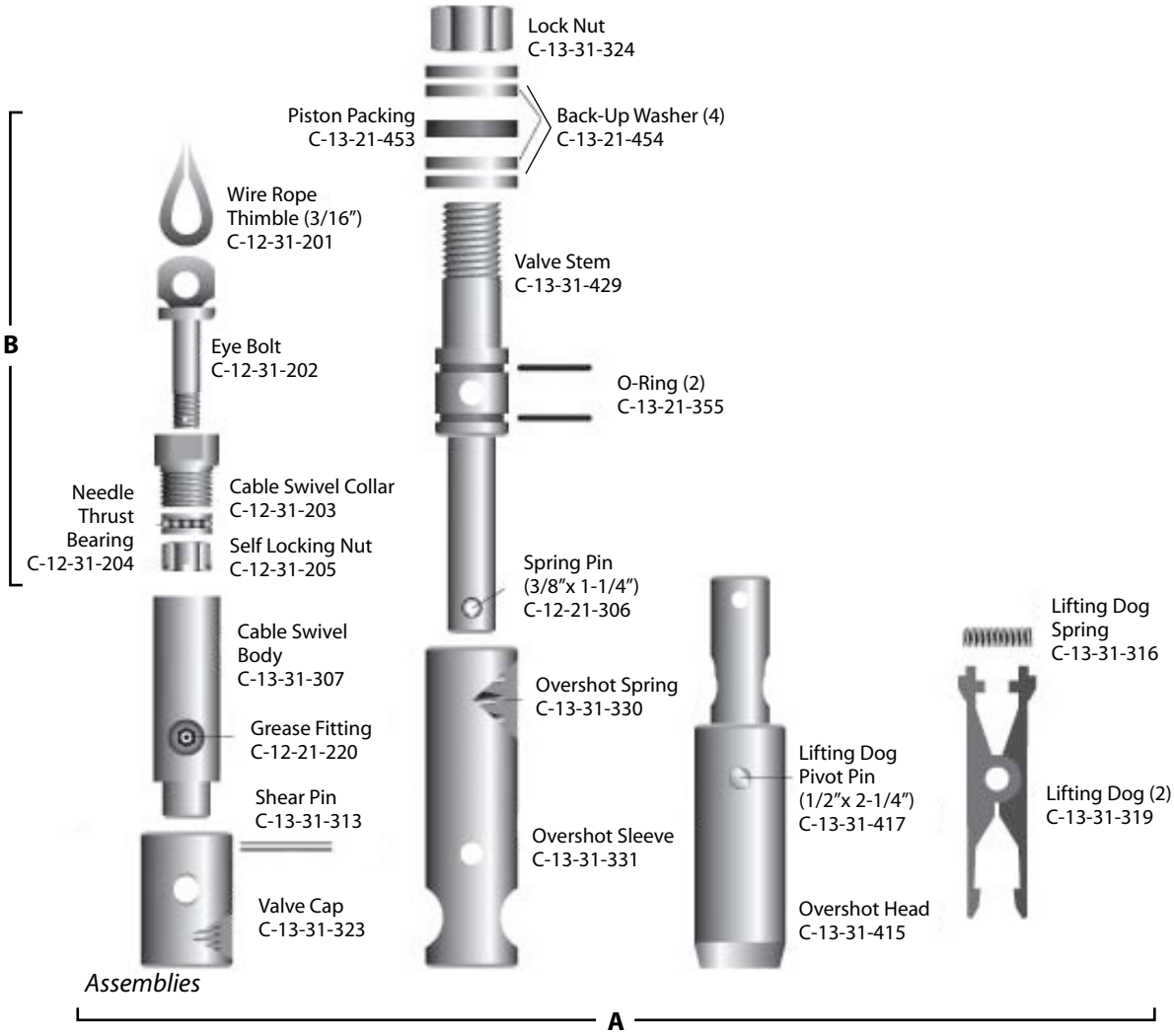


Assemblies

N W/L-U UNDER GROUND WIRELINE OVERSHOT

ASSEMBLIES

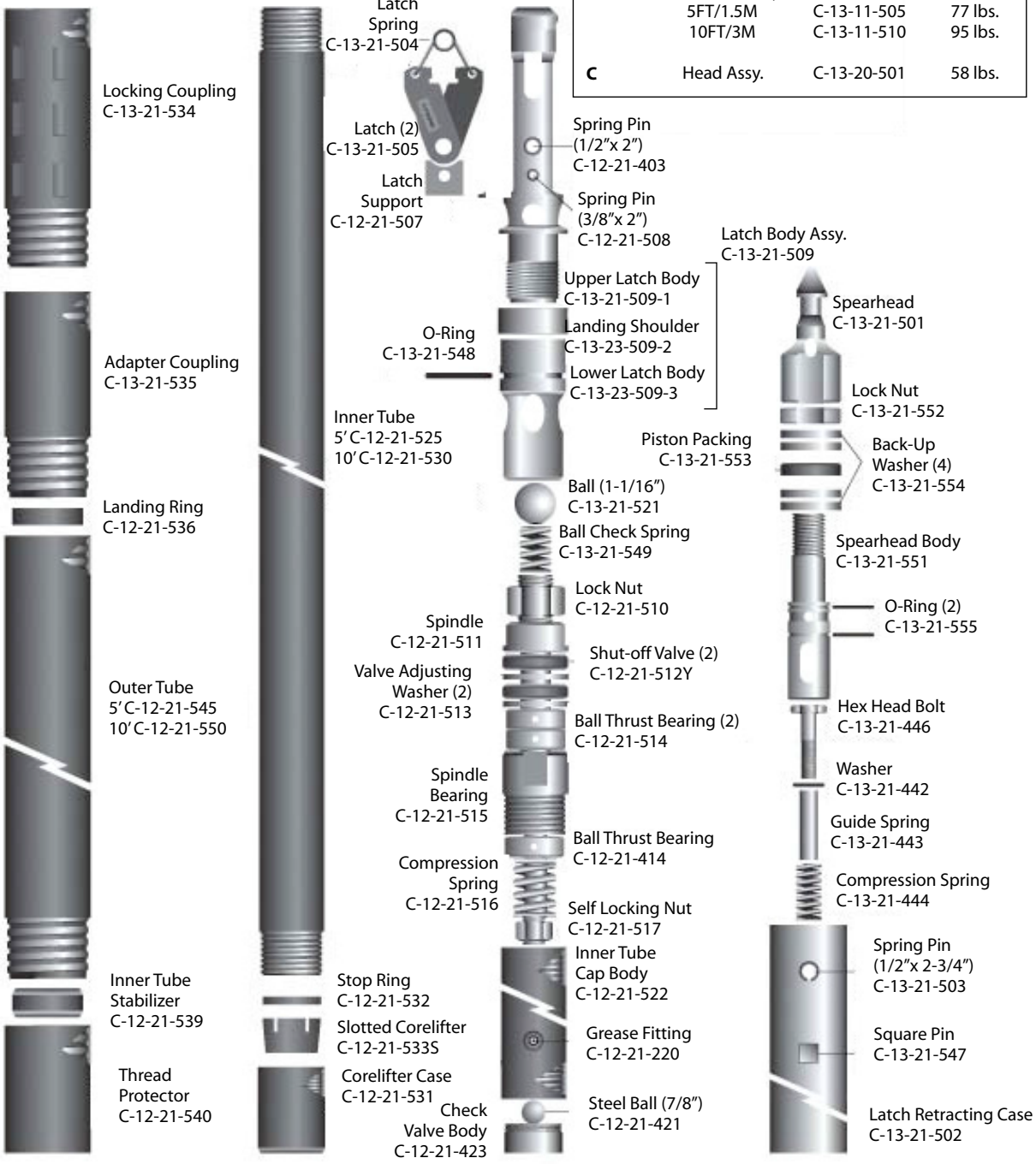
Group	*Description*	*Part Number*	*Weight*
A	Overshot Assy.	C-13-30-400	12 lbs.
B	Cable Swivel Assy.	C-12-30-250	0.6 lbs.



H W/L-U UNDER GROUND WIRELINE CORE BARREL

ASSEMBLIES

Group	Description	Part Number	Weight
A	Corebarrel Assy.		
	5FT/1.5M	C-13-01-505	158 lbs.
	10FT/3M	C-13-01-510	228 lbs.
B	Inner Tube Assy.		
	5FT/1.5M	C-13-11-505	77 lbs.
	10FT/3M	C-13-11-510	95 lbs.
C	Head Assy.	C-13-20-501	58 lbs.



Assemblies

C

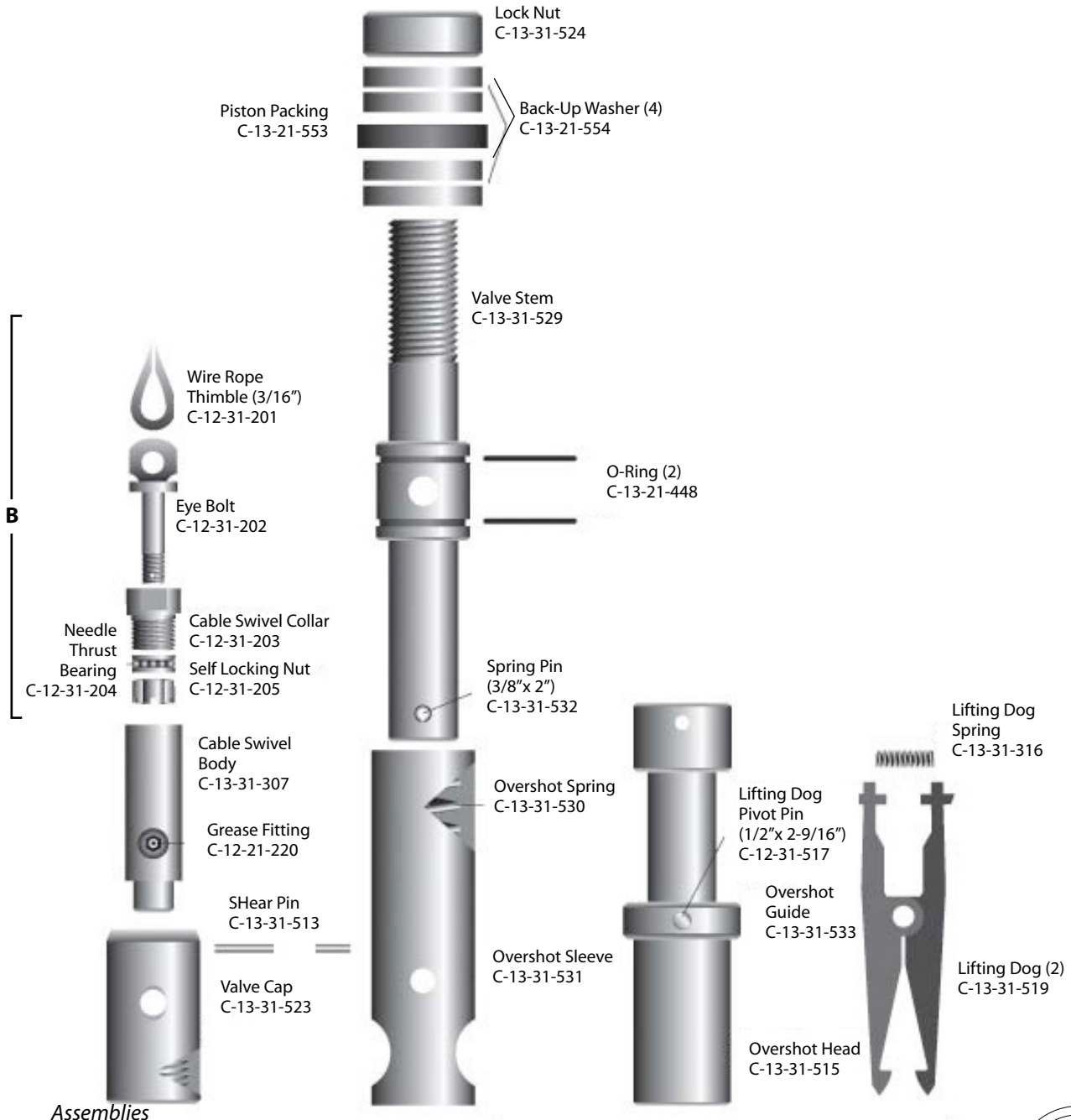
B

A

H W/L-U UNDER GROUND WIRELINE OVERSHOT

ASSEMBLIES

Group	*Description*	*Part Number*	*Weight*
A	Overshot Assy.	C-13-30-500	15 lbs.
B	Cable Swivel Assy.	C-12-30-250	0.6 lbs.



WIRELINE DRILL ROD HEAT TREATED

Size	*Length*	*Part Number*	*Weight*
B W/L	5FT/1.5M	C-30-31-305	20 lbs.
B W/L	10FT/3M	C-30-31-310	40 lbs.
N W/L	5FT/1.5M	C-30-31-405	25 lbs.
N W/L	10FT/3M	C-30-31-410	51 lbs.
H W/L	5FT/1.5M	C-30-31-505	39 lbs.
H W/L	2FT/0.75M	C-30-31-510	77 lbs.
BTW	5FT/1.5M	C-30-61-305	18 lbs.
BTW	10FT/3M	C-30-61-310	35 lbs.
NTW	5FT/1.5M	C-30-61-405	24 lbs.
NTW	10FT/3M	C-30-61-410	50 lbs.
HTW	5FT/1.5M	C-30-61-505	35 lbs.
HTW	10FT/3M	C-30-61-510	71 lbs.

*Available in 2FT length if required

Drill Rod Adapters and Recovery Taps

*Available in all sizes.
*Not stocked, manufactured by request.

FLUSH JOINT CASING

Size	*Length*	*Part Number*	*Weight*
AW	5FT/1.5M	C-20-10-205	19 lbs.
AW	10FT/3M	C-20-10-210	37 lbs.
BW	5FT/1.5M	C-20-10-305	35 lbs.
BW	10FT/3M	C-20-10-310	70 lbs.
NW	5FT/1.5M	C-20-10-405	43 lbs.
NW	2FT/0.75M	C-20-10-410	86 lbs.
HW	5FT/1.5M	C-20-10-505	58 lbs.
HW	10FT/3M	C-20-10-510	116 lbs.
PW	5FT/1.5M	C-20-10-605	70 lbs.
PW	10FT/3M	C-20-10-610	144 lbs.

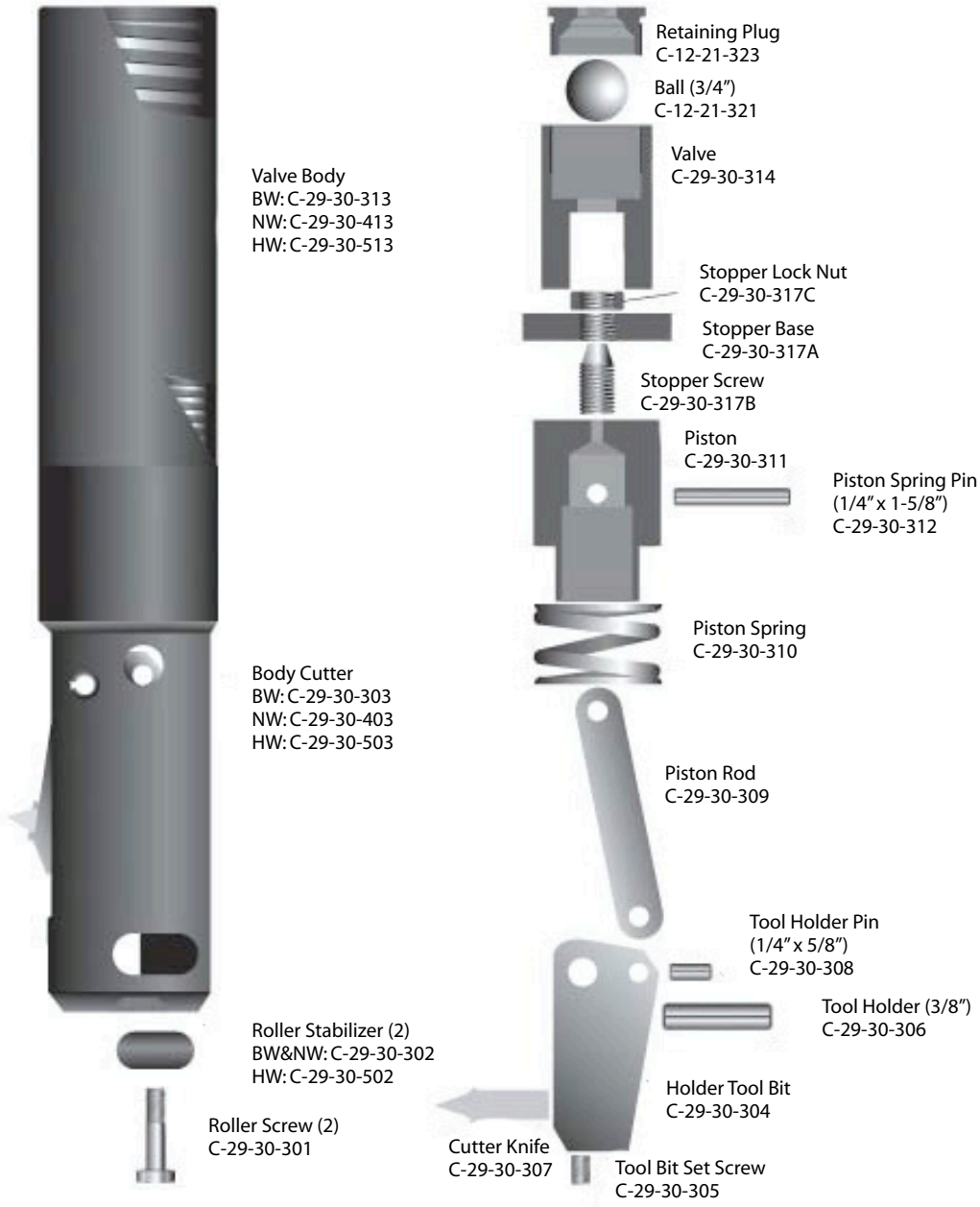
*Available in 2FT length if required

Casings Adapters and Recovery Taps

*Available in all sizes.
*Not stocked, manufactured by request.

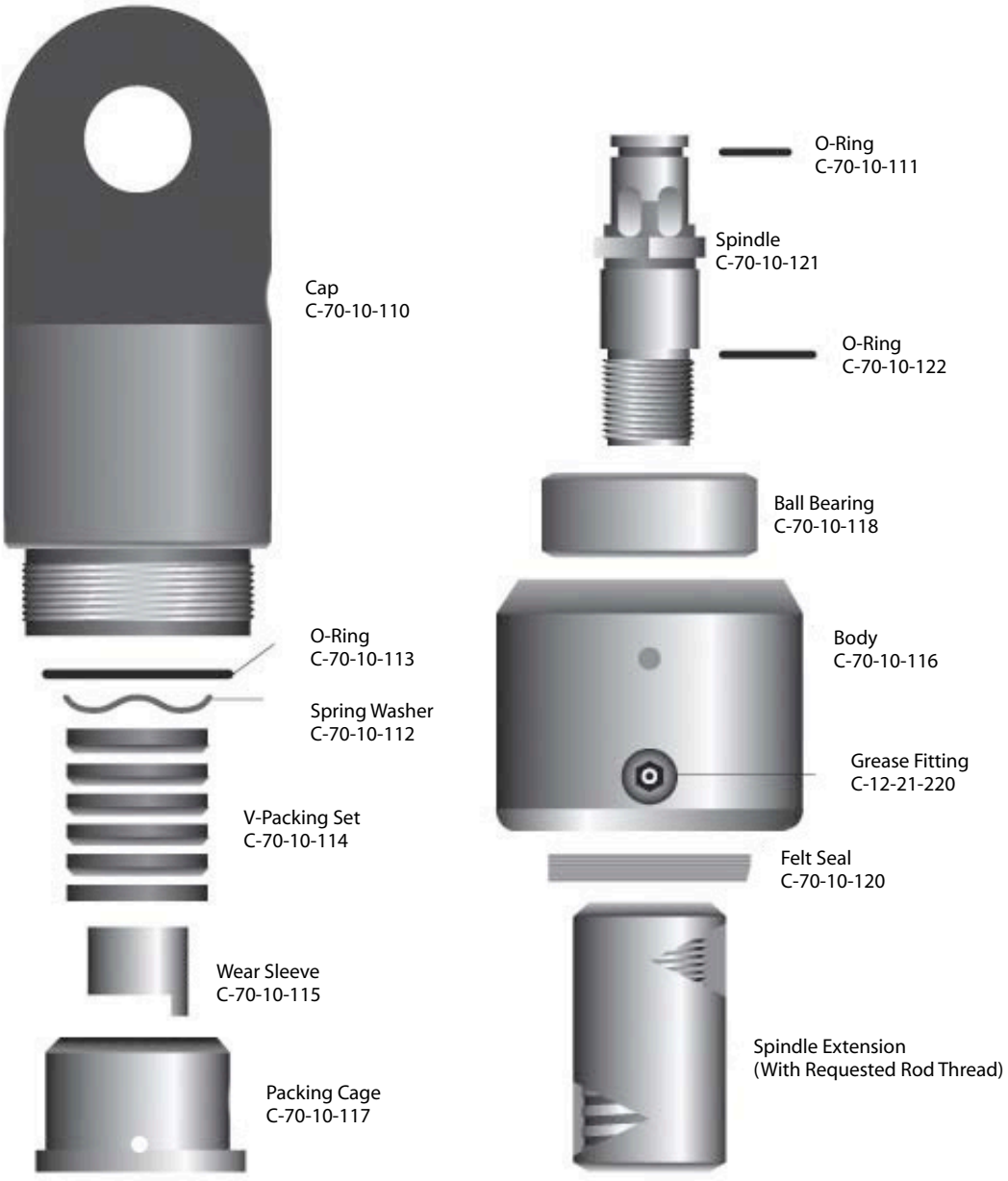
CASING CUTTER

ASSEMBLIES		
Description	*Part Number*	*Weight*
BW Casing/N W/L Rod Cutter	C-29-30-300	18 lbs.
NW Casing/H W/L Rod Cutter	C-29-30-400	25 lbs.
HW Casing/P W/L Rod Cutter	C-29-30-500	39 lbs.
*Available for Thin Wall Rods		



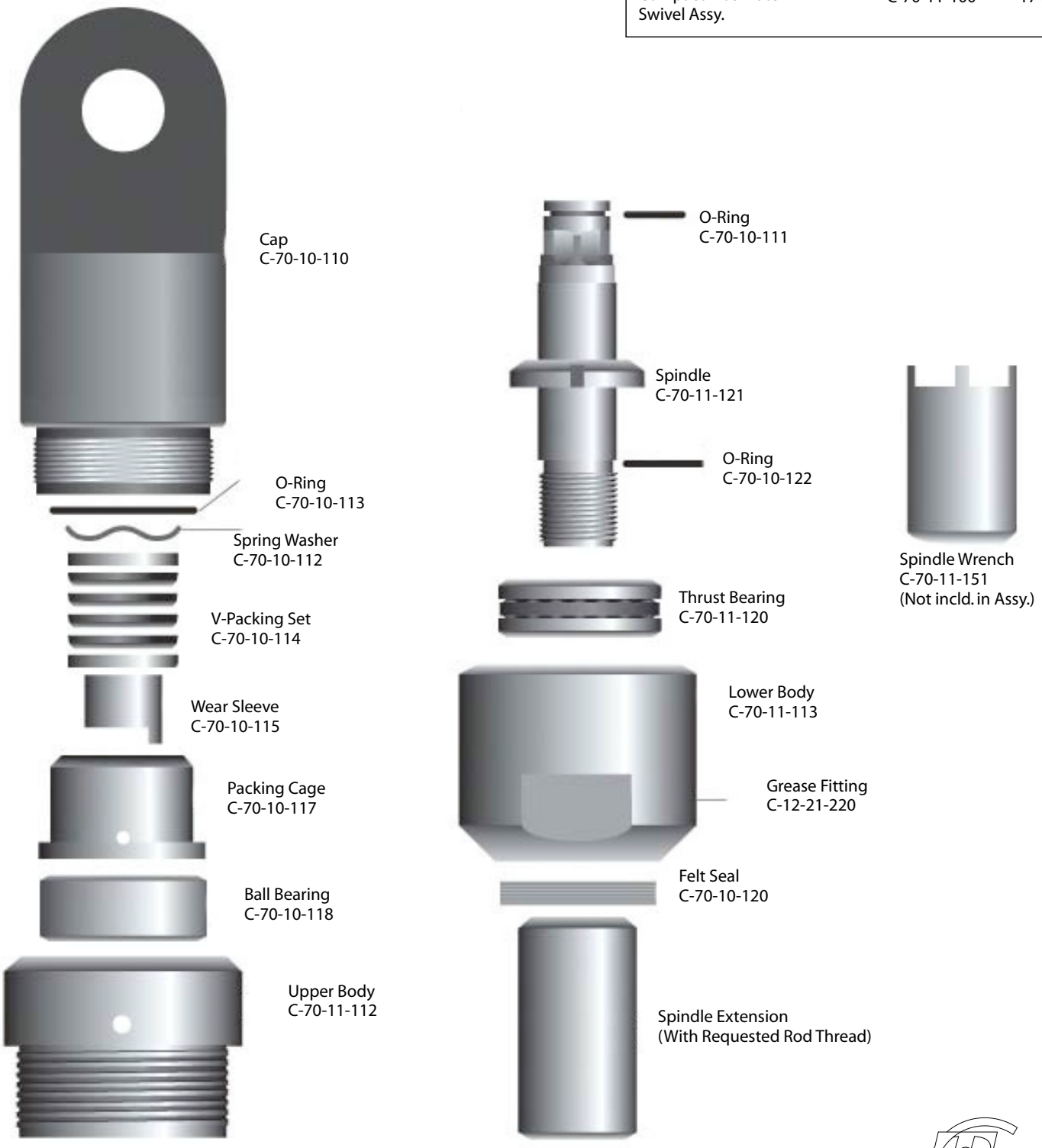
COMPACT WATER SWIVEL

ASSEMBLIES		
Description	*Part Number*	*Weight*
Compact Water Swivel Assy.	C-70-10-100	15 lbs.



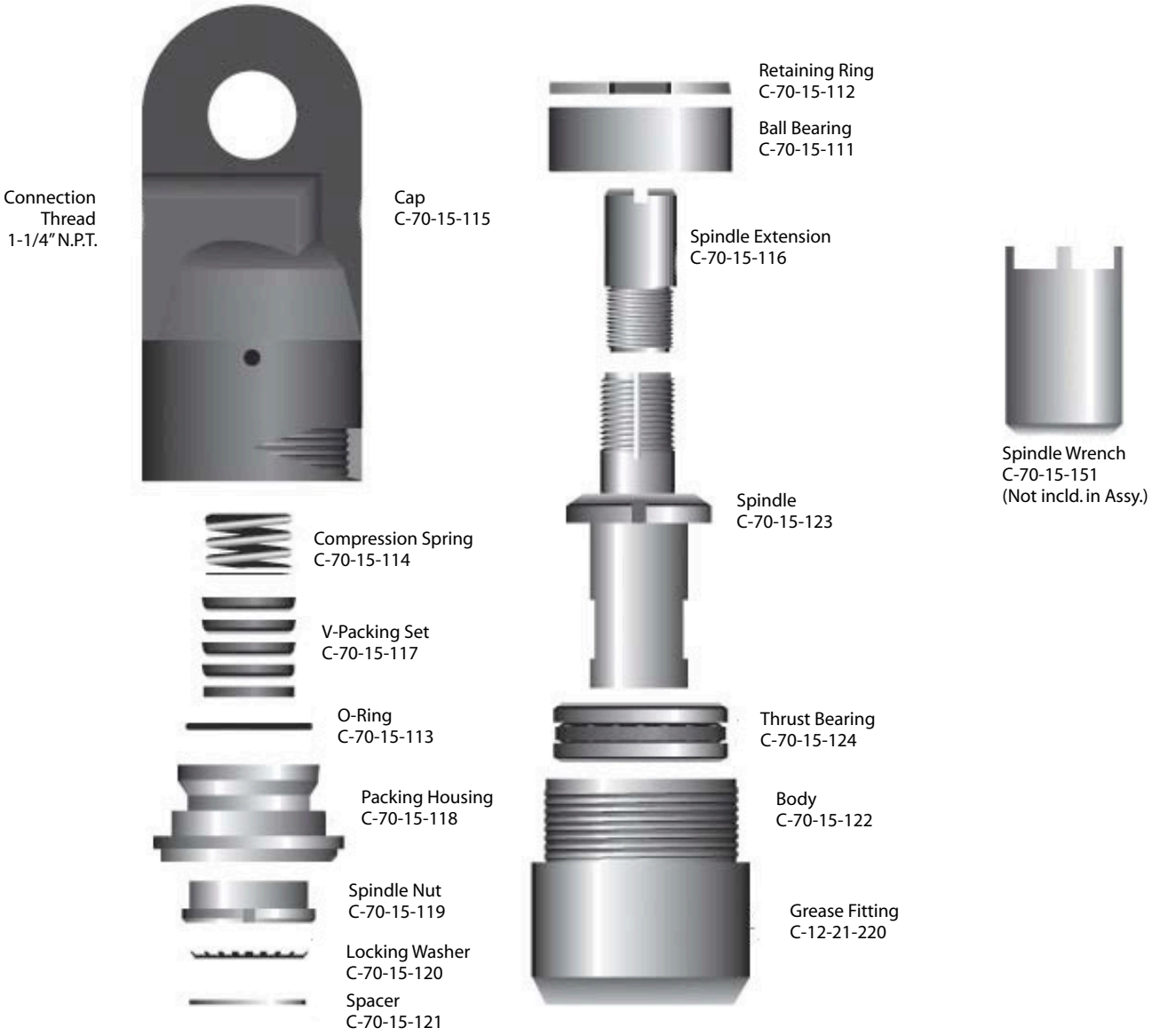
COMPACT PLUS WATER SWIVEL

ASSEMBLIES		
Description	*Part Number*	*Weight*
Compact Plus Water Swivel Assy.	C-70-11-100	17 lbs.



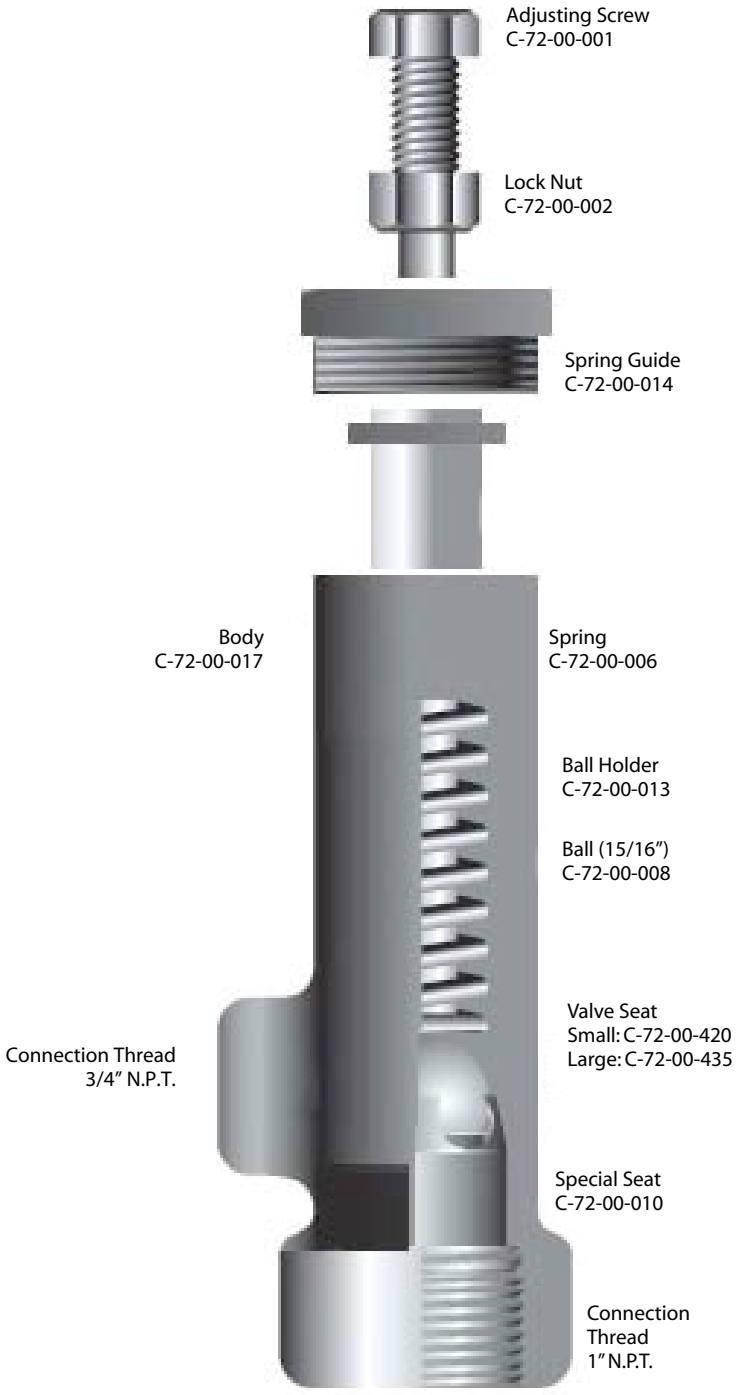
UNIVERSAL WATER SWIVEL

ASSEMBLIES		
Description	*Part Number*	*Weight*
Universal Water Swivel Assy.	C-70-11-100	17 lbs.



PRESSURE RELIEF VALVE

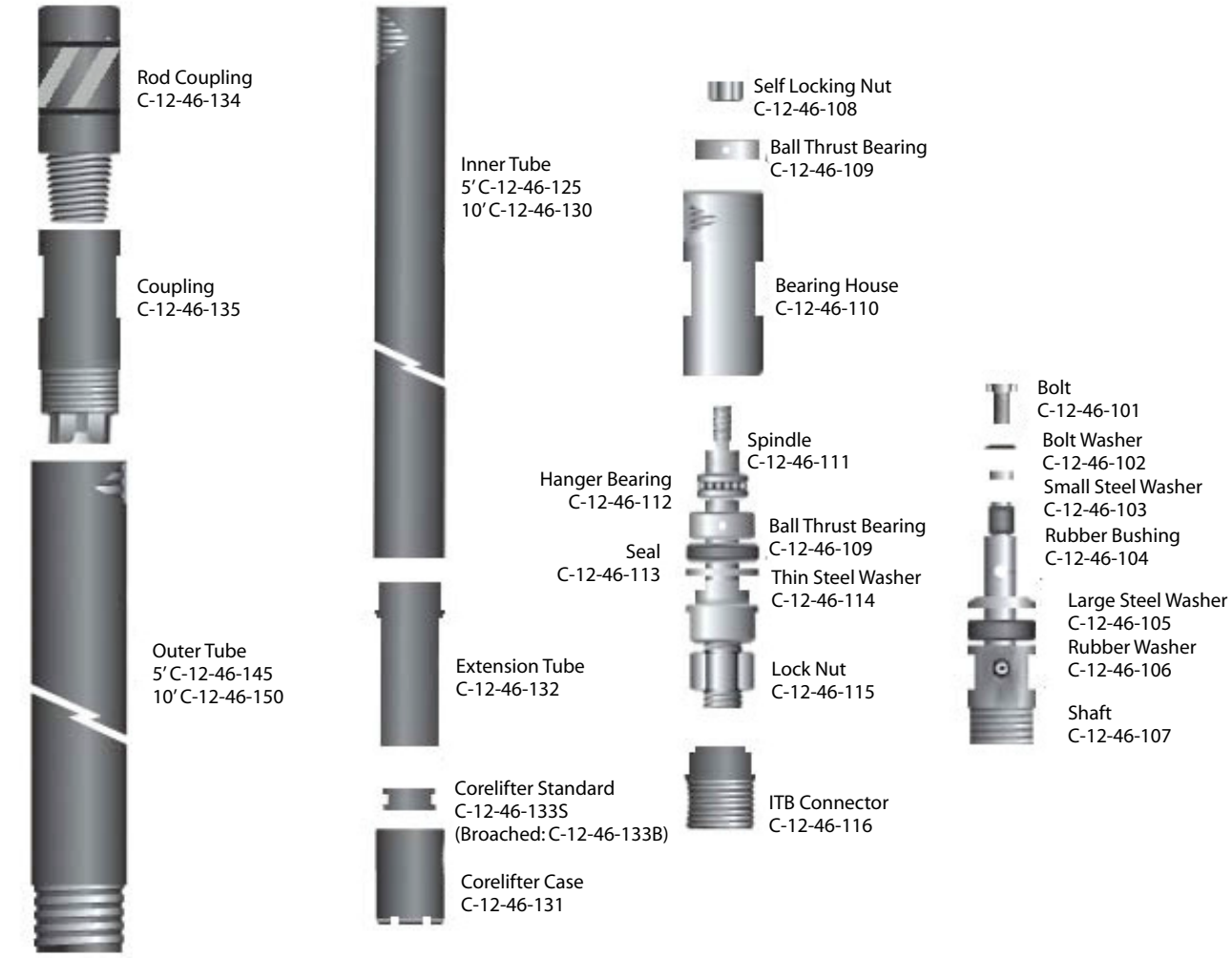
ASSEMBLY		
Description	*Part Number*	*Weight*
Pressure Relief Value Assy.	C-72-00-016	8.2 lbs.



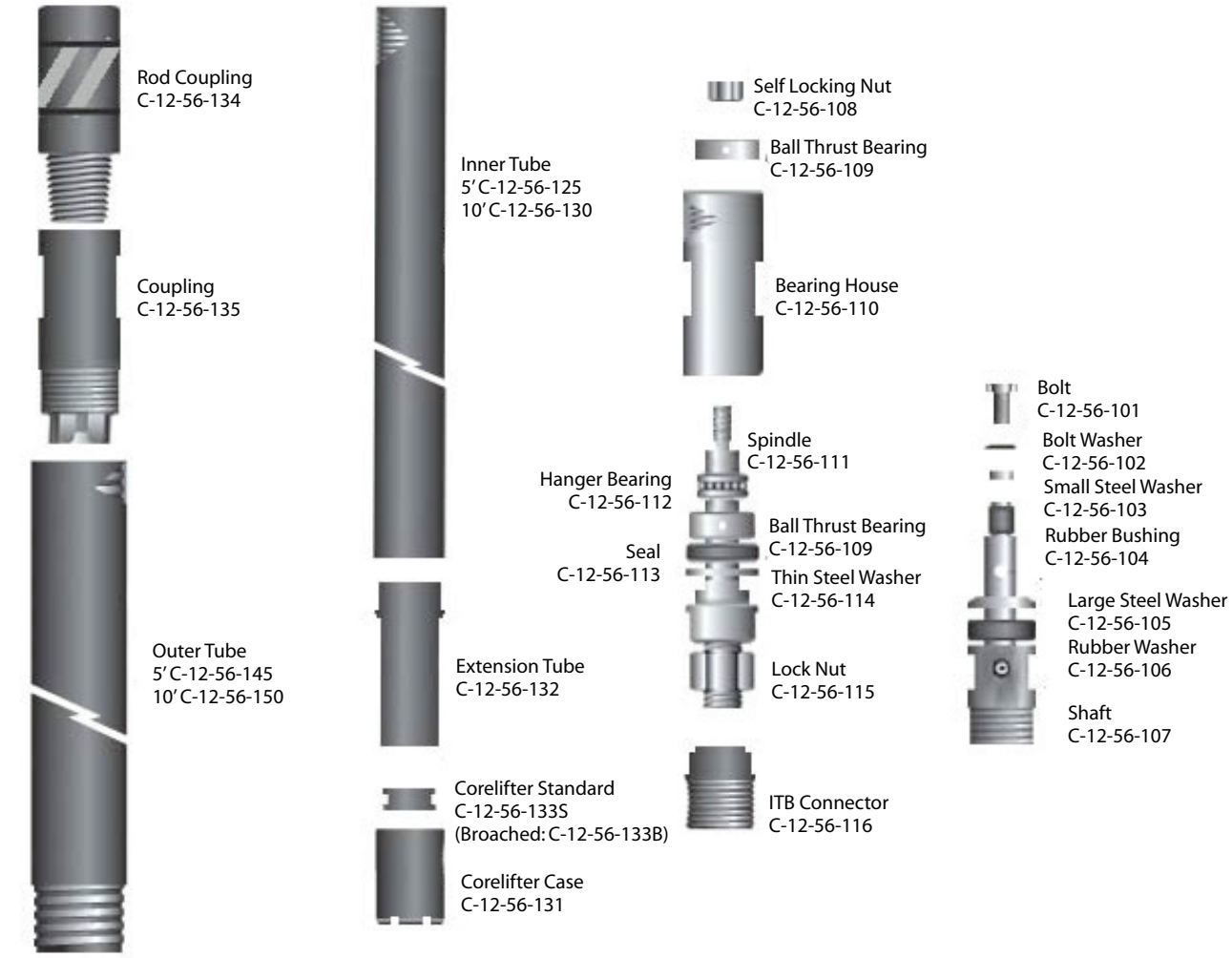
HOISTING PLUG

ASSEMBLIES			
Group	*Description*	*Part Number*	*Weight*
A	6,000 lb Assy	C-64-00-200	11 lbs.
B	13,000 lb Assy	C-64-00-400	17 lbs.
C	30,000 lb Assy	C-64-00-450	35 lbs.

ASSEMBLIES			
Group	*Description*	*Part Number*	*Weight*
A	Corebarrel Assy.		
	5FT/1.5M	C-12-04-105	20 lbs.
	10FT/3M	C-12-04-110	38 lbs.
C	Head Assy.	C-12-04-100	4.3 lbs.



ASSEMBLIES			
Group	*Description*	*Part Number*	*Weight*
A	Corebarrel Assy.		
	5FT/1.5M	C-12-05-105	30 lbs.
	10FT/3M	C-12-05-110	46 lbs.
C	Head Assy.	C-12-05-100	12.5 lbs.



CORELIFTERS

ATW	Standard	C-12-23-233
A W/L-TK	Spiral	C-12-21-233TKS
	Broached	C-12-21-233TKB
B W/L-TK	Slotted	C-12-21-333TK
JTK-48	Standard	C-12-48-333
LTK-48	Standard	C-12-48-433
TT-56	Standard	C-12-56-133S
	Broached	C-12-56-133B
TNW Coarse	Slotted	C-12-51-133C
TNW Fine	Slotted	C-12-51-133F
	Broached	C-12-51-133B
TBW	Slotted	C-12-61-133S
	Broached	C-12-61-133B
AW-34	Broached	C-12-34-233
BW-34	Broached	C-12-34-333
EXT 7 3/4	Broached	C-12-77-134
EXT 7 7/8	Broached	C-12-77-178
EXT 10 Degee	Broached	C-12-10-133
AXT 7 Degree	Broached	C-12-77-233
AXT 10 Degree	Broached	C-12-10-233
BX 7 Degree	Broached	C-12-77-333
BX 10 Degree	Broached	C-12-10-333
NX 7 Degree	Broached	C-12-77-433
NX 10 Degree	Broached	C-12-10-433
HWG 10 Degree	Broached	C-12-10-533
NXL	Broached	C-12-21-004

DIAMOND COATED CORELIFTERS

B W/L	Slotted	C-12-21-333SDC
	Broached	C-12-21-333BDC
N W/L	Slotted	C-12-21-433SDC
	Broached	C-12-21-433BDC
H W/L	Slotted	C-12-21-533SDC
	Broached	C-12-21-533BDC
P W/L	Slotted	C-12-21-633SDC
	Broached	C-12-21-633BDC
N W/L-2	Slotted	C-12-27-433SDC
	Broached	C-12-27-433BDC
N W/L-3	Slotted	C-14-21-433SDC
	Broached	C-14-21-433BDC
H W/L-3	Slotted	C-14-21-533SDC
	Broached	C-14-21-533BDC
P W/L-3	Slotted	C-14-21-633SDC
	Broached	C-14-21-633BDC

CORELIFTER CASES

ATW	C-12-23-231
A W/L-TK	C-12-21-231TK
B W/L-TK	C-12-21-331TK
B W/L-TT	C-12-21-331TT
N W/L-TT	C-12-21-431TT
H W/L-TT	C-12-21-531TT
P W/L-TT	C-12-21-631TT
JTK-48	C-12-48-331
LTK-48	C-12-48-431
TT-56	C-12-56-131
AW-34	C-12-34-231
BW-34	C-12-34-331

STOP RINGS

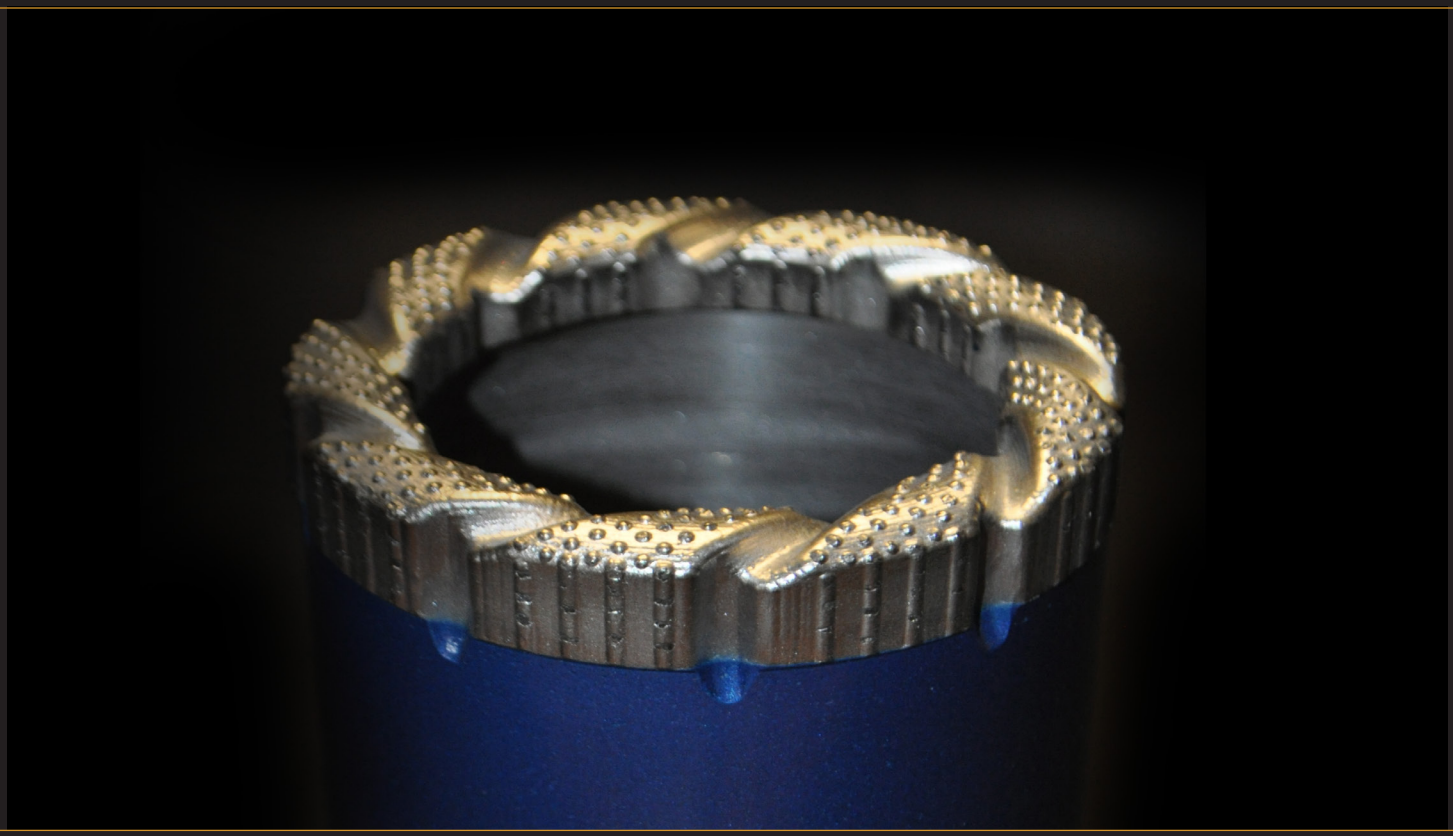
A W/L-TK	C-12-21-232TK
B W/L-TK	C-12-21-332TK

LANDING RINGS

ATW	C-12-23-236
A W/L-TK	C-12-21-236TK
B W/L-TK	C-12-21-336TK

CORELIFTER CASES

ATW	C-12-23-239
A W/L-TK	C-12-21-239K
B W/L-TK	C-12-21-339TK
JTK-48	C-12-48-339
LTK-48	C-12-48-439



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