



HDL643C PARTS LIST

(See Instructions 901-D00 for Operation and Maintenance)

Serial # _____

ID# _____

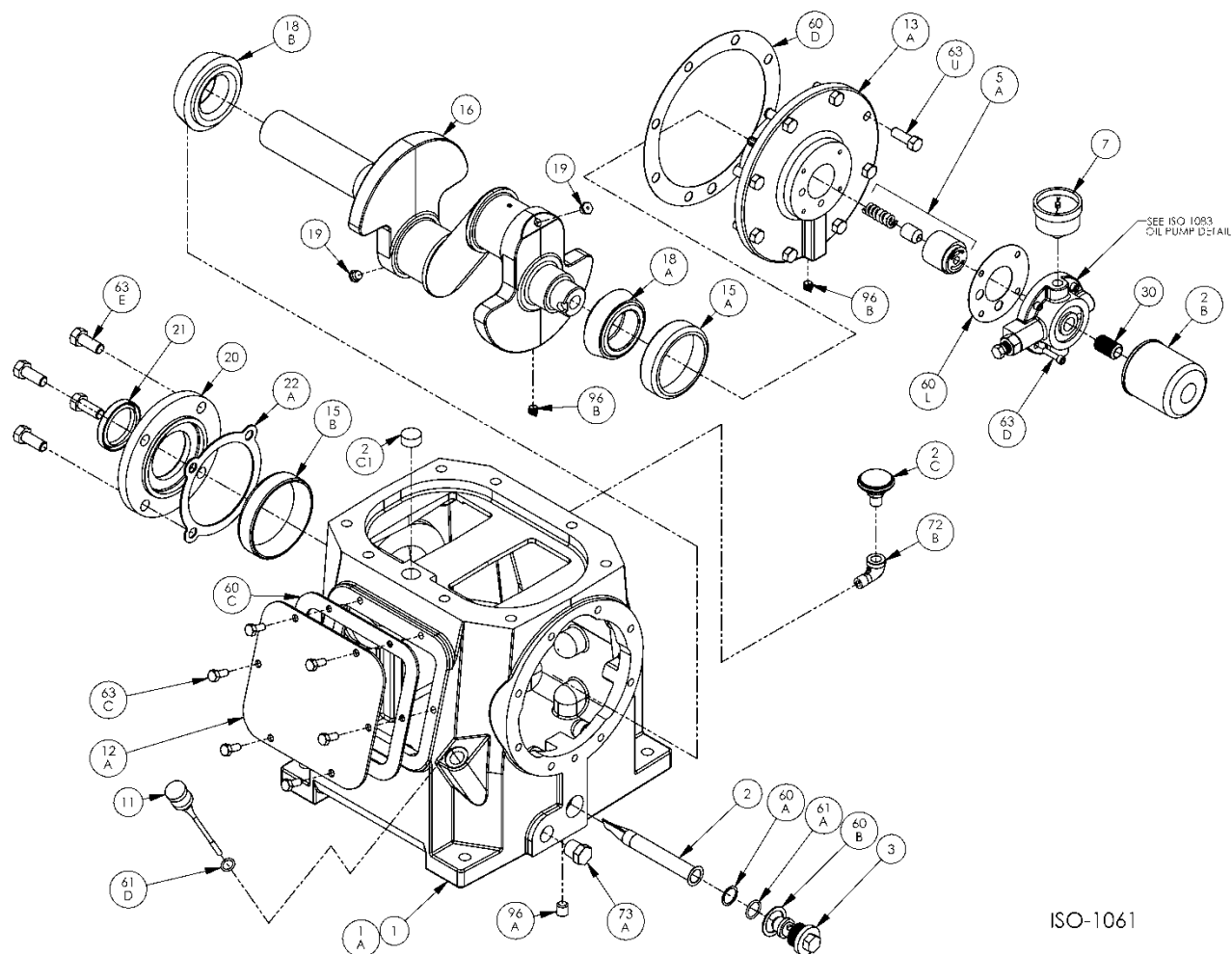
Gasket Sets and Special Tools

Gasket Set	Buna-N & Iron	794594
	PTFE & Iron	794592
	FKM & Iron	794593
	Neoprene & Iron	794590
	Ethylene Propylene & Iron	794589
Packing Installation Tool		790538
Spanner Wrench, 1/4" Adjustable		790316
Wrench for Valve Hold Down Screw		790535
Piston Tool		798008

Table of Contents

Cover Page	1
Crankcase	2
Oil Pump	3
Flywheel	4
Crosshead	5
Packing	6
Cylinder	7
Head	8
Head with Unloaders	9-10

Notes:



ISO-1061

Crankcase Assembly:

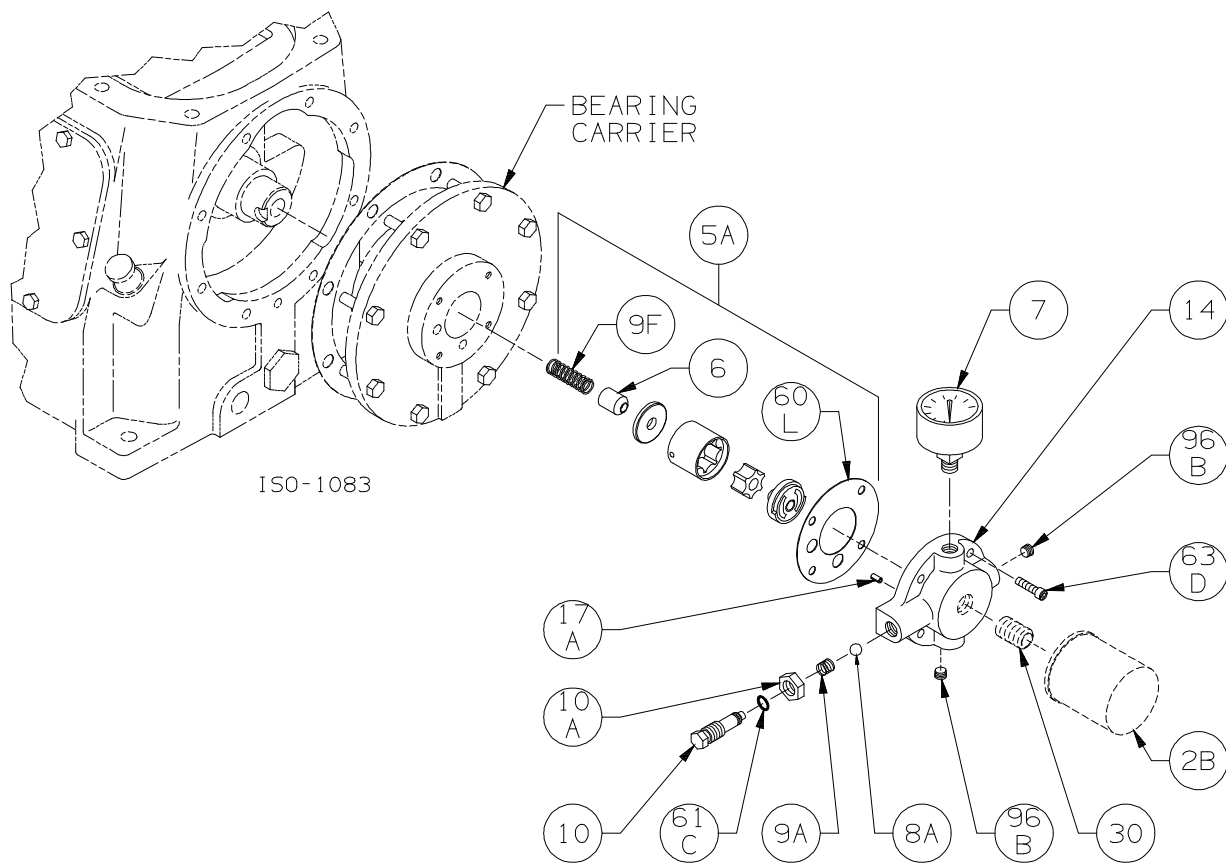
Models HD601B, HD602C|B, HD603C|B, HDL602C|B, HDL603C|B, HDL642C|B, HDL643C|B, HDS602C|B
HD612C|B, HD613C|B, HDL612C|B, HDL613C|B, HDS612C|B

ISO1061

Ref	Description	Qty	Part No
1	Crankcase Assembly – with Oil Filter (std.)	1	794758
	Crankcase Assembly – no Oil Filter		794759
1A	Crankcase	1	794709
2	Oil Intake Screen	1	792135
2B	Oil Filter	1	794726
2C	Breather Filter (current)	1	792070
2C1	Breather Filter (Previous Construction)		794752
3	Oil Screen Plug	1	792145
5A	Oil Pump Kit	1	794760
7	Oil Pressure Gauge	1	790012
11	Oil Bayonet Assembly	1	792162
12A	Inspection Plate	1	794140
13A	Bearing Carrier	1	794714
15A	Bearing Cup (Outboard)	1	794131
15B	Bearing Cup (Inboard)	1	794731
16	Crankshaft Assy (w\ 18A,18B,19,96B)	1	794708
18A	Bearing Cone (Outboard)	1	794130
18B	Bearing Cone (Inboard)	1	794730
19	Orifice	2	792146

Ref	Description	Qty	Part No
20	Bearing Cover Plate	1	794716
21	Oil Seal	1	794732
22A	Bearing Adjustment Shim Kit	1	794733
30	Oil Filter Fitting	1	794725
60A	Gasket - Oil Screen *	1	792136
60B	Gasket - Oil Screen Plug *	1	792123
60C	Gasket - Inspection Plate *	1	794122
60D	Gasket - Bearing Carrier Assembly*	1	794720
60L	Gasket - Oil Pump Cover *	1	794721
61A	O-Ring - Oil Screen *	1	792175
61D	O-Ring - Oil Bayonet *	1	792174
63C	Capscrew - Hex Hd	6	793116
63D	Capscrew - Soc Hd	4	790559
63E	Capscrew - Hex Hd	4	790484
63U	Capscrew - Hex Hd	8	792093
72B	Elbow	1	790453
73A	Pipe Plug	1	790024
96A	Pipe Plug	1	790488
96B	Pipe Plug	2	790309

* Included in Gasket Sets



Oil Pump Detail for Models:

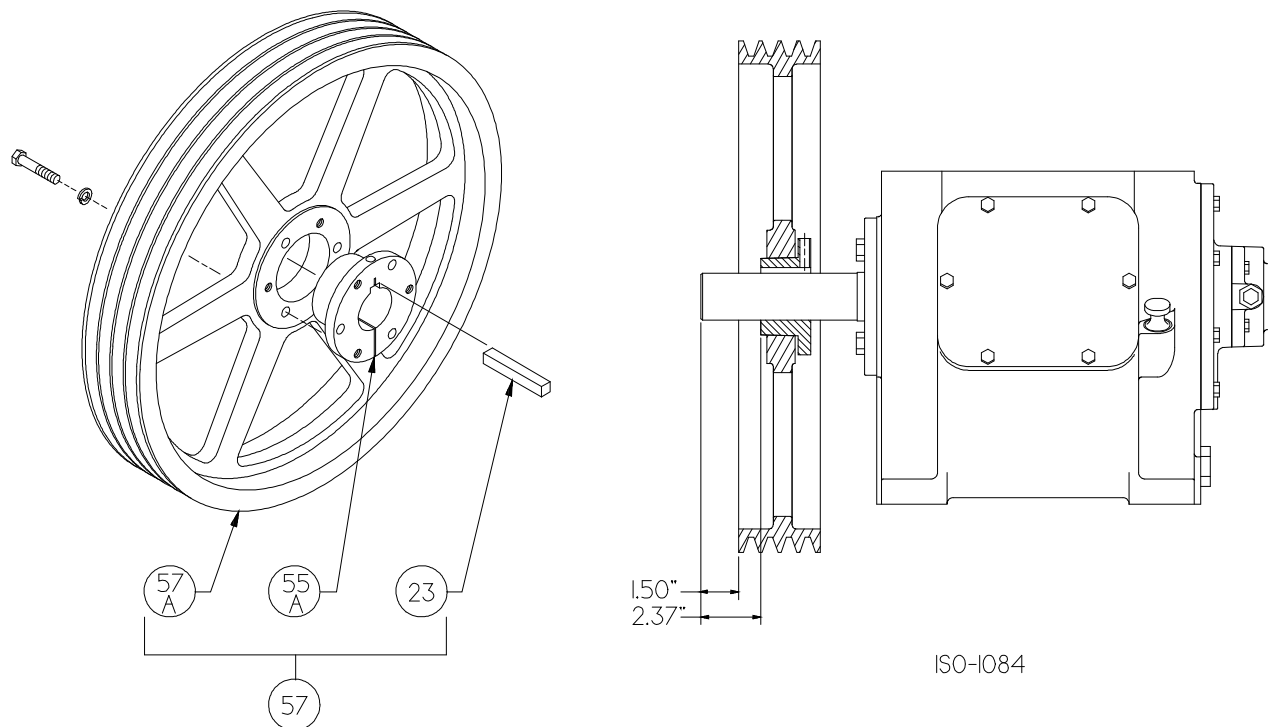
HD082C, HD161C|B, HD162C|B, HD163C, HDS162C
 HD172C|B, HD173C, HDL172C, HDL173C, HDS172C,
 HDL342C|B, HDL343C|B, HDL322C, HDL323C
 HD361C|B, HD362C|B, HD363|B, HDS362C, HDL362C|B, HDL363C|B,
 HD372C|B, HDL372C|B, HD373C, HDL373C|B, HDS372C
 HD601B, HD602C|B, HD603C|B, HDL602C|B, HDL603C|B, HDS602C, HDL642C|B, HDL643C|B,
 HD612C|B, HDL612C|B, HD613C|B, HDL613C|B, HDS612C|B
 HD942B|A, HDL942B|A, HDS942B, HD943B, HDL943B

ISO1083

Ref	Description	Qty	Part No
2B	Oil Filter	1	794726
5A	Oil Pump Kit (with 6, 9F, 60L)		794760
6	Oil Pump Cone	1	794750
7	Oil Pressure Gauge	1	790012
8A	Oil Pressure Adj. Ball	1	792154
9A	Oil Pressure Adj. Spring	1	792153
9F	Oil Pump Spring	1	794751
10	Oil Pressure Adj. Screw	1	792148
10A	Locknut	1	792152

Ref	Description	Qty	Part No
14	Oil Pump Cover Assembly - For Filter		794764
	Oil Pump Cover Assembly (both include 17A, 96B)	1	794763
17A	Roll Pin	1	794753
30	Oil Filter Fitting	1	794725
60L	Gasket - Oil Pump Cover *	1	794721
61C	O-Ring - Adjusting Screw *	1	792168
63D	Capscrew - Socket Head	4	790559
96B	Pipe Plug	2	790309

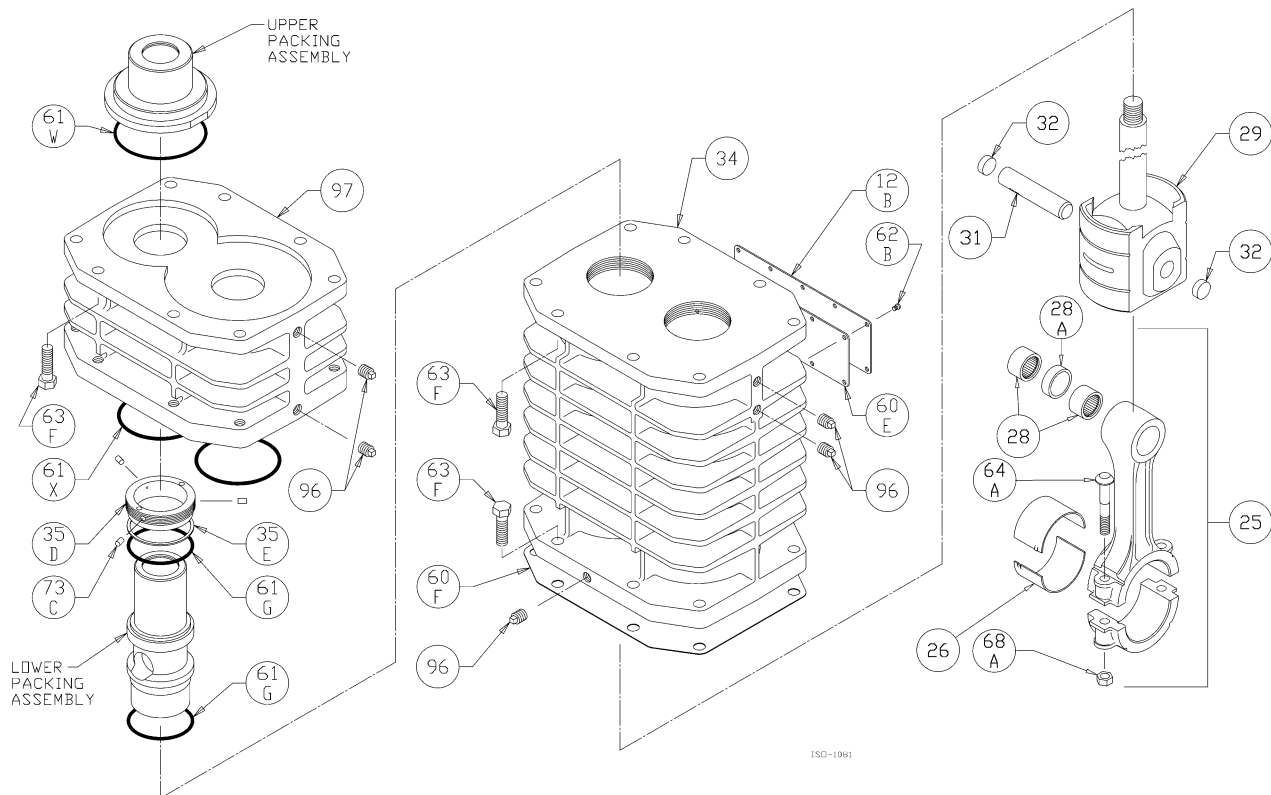
* Included in Gasket Sets



Standard Flywheel Assembly:
 HD601B, HD602C|B, HD603C|B
 HDL602C|B, HDL603C|B, HDS602C|B
 HDL642C|B, HDL643C|B

ISO1084

Ref	Description	Qty	Part No
23	Key	1	794267
55A	Hub (SF 1.875)	1	790149
57	Flywheel Assembly	1	794132
57A	Flywheel	1	790545



Crosshead Assembly: HD603C, HDL603C, HDL643C

ISO1081

Ref	Description	Qty	Part No
12B	Inspection Plate	1	794093
25	Connecting Rod Assembly	2	794767
26	Connecting Rod Bearing	2	794710
28	Wrist Pin Roller Bearing	4	794776
28A	Bearing Spacer	2	794770
29	Crosshead Assembly	2	794435
31	Wrist Pin	2	794727
32	Wrist Pin Plug	4	794724
34	Crosshead Guide	1	794430
35D	Hold-down Ring	2	794220
35E	Spacer Ring	2	794403
60E	Gasket - Inspection Plate *	1	794092
60F	Gasket - Crankcase *	1	794121
61G	O-Ring (Buna-N) *	4	794082
	O-Ring (FKM) *		794213
	O-Ring (PTFE) *		794208
	O-Ring (Neoprene) *		794090
	O-Ring (Ethylene Propylene) *		794206
61W	HD603C, HDL603C only	2	793177
	O-Ring (Buna-N) *		793212
	O-Ring (FKM) *		793210
	O-Ring (PTFE) *		793216
	O-Ring (Neoprene) *		793216
	O-Ring (Ethylene Propylene) *		793206

Ref	Description	Qty	Part No
61W	HDL643C only	2	794082
	O-Ring (Buna-N) *		794213
	O-Ring (FKM) *		794208
	O-Ring (PTFE) *		794090
	O-Ring (Neoprene) *		794206
	O-Ring (Ethylene Propylene) *		794426
61X	O-Ring (Buna-N) *	2	794425
	O-Ring (FKM) *		794427
	O-Ring (PTFE) *		794424
	O-Ring (Neoprene) *		794428
	O-Ring (Ethylene Propylene) *		793096
62B	Machine Screw - Inspection Plate	10	793096
63F	Capscrew - Hex Hd	24	794094
	Capscrew - Stainless Steel #		801185
64A	Connecting Rod Bolt	4	794012
68A	Connecting Rod Bolt Nut	4	794013
72A	Elbow - Vent	1	790453
73C	Lock Plug *	6	794028
96	Pipe Plug	9	908198
97	Distance Piece	1	794410

* Included in Gasket Sets

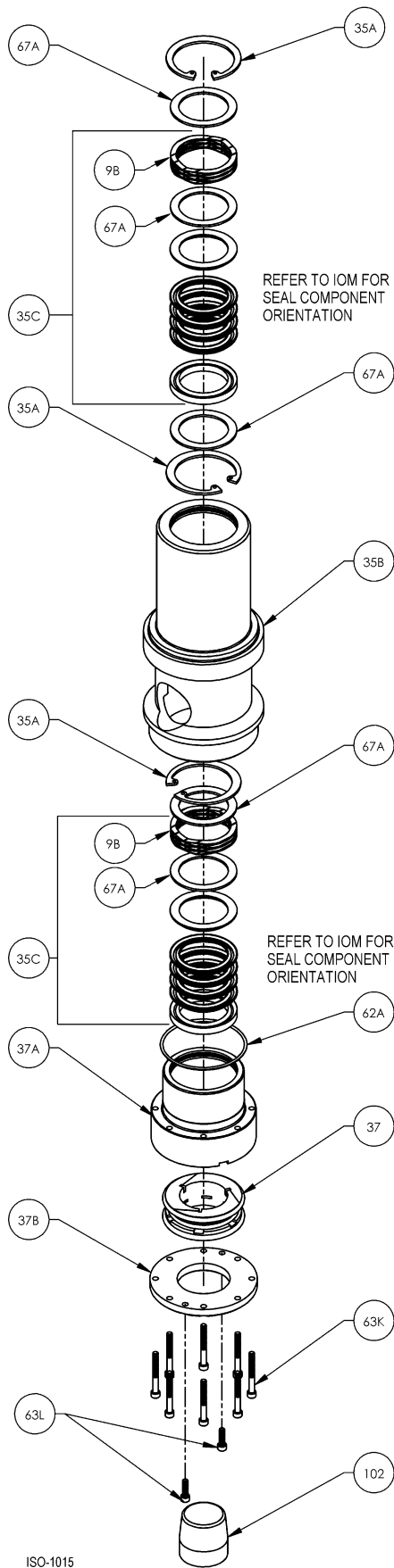
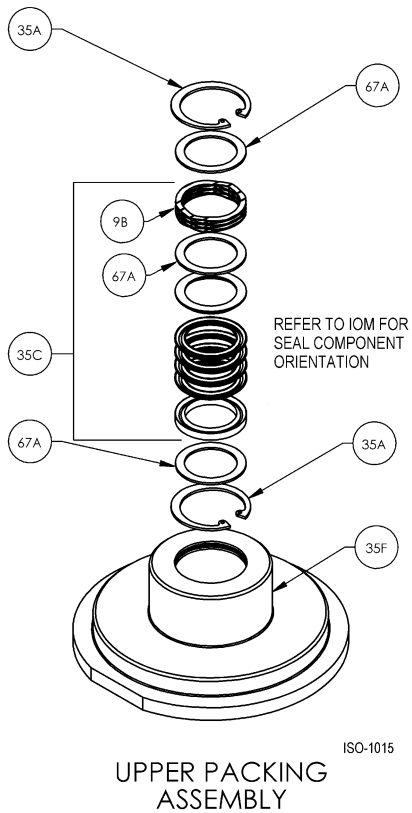
Standard with TNT-12 Cylinder

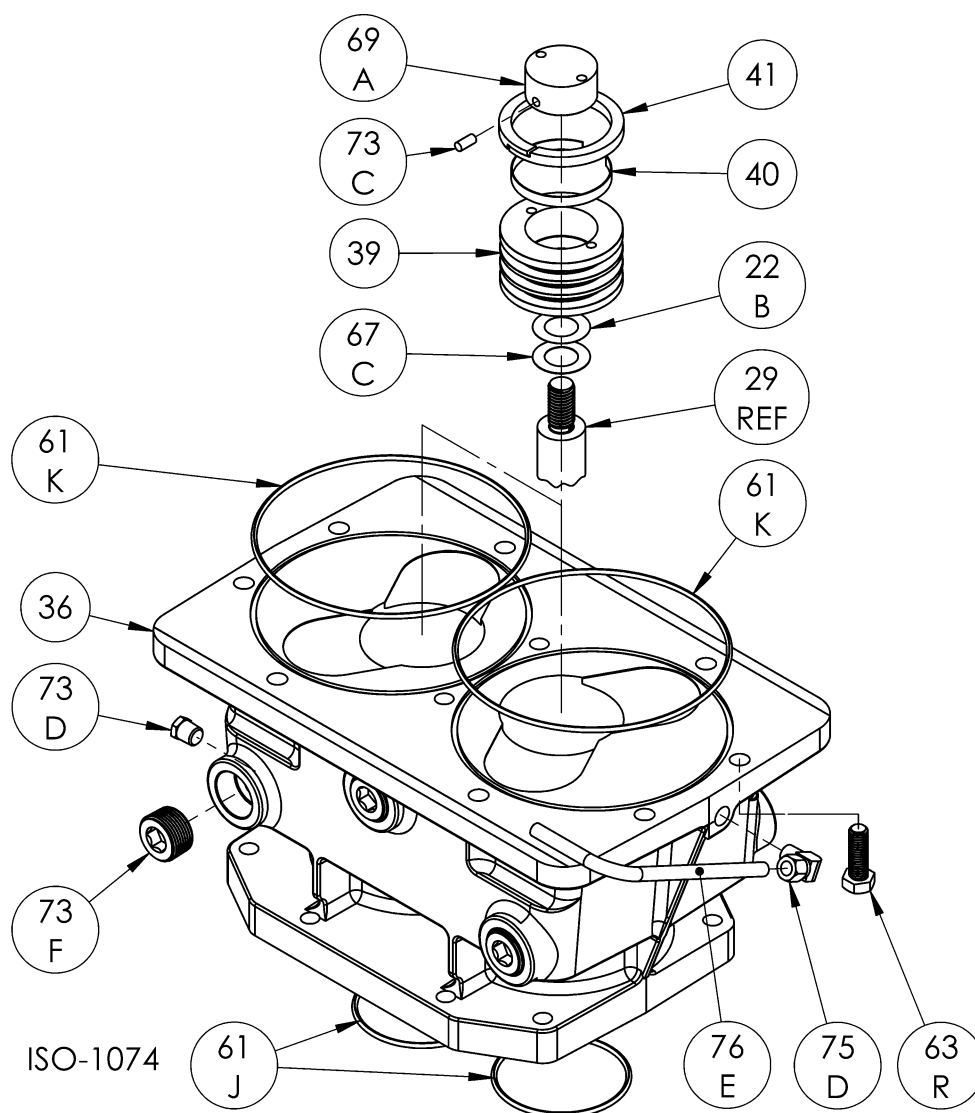
Packing Assembly: HD603C, HDL603C, HDL643C

Ref	Description	Qty	Part No
9B	Packing Spring	6	794041
35A	Retainer Ring	10	794080
35B	Packing Box – Lower Packing Box – Lower, TNT-12	2	794445 794463
35C	Packing Set	6	794498
35F	Packing Box – Upper HD(L)603	2	794404
	Packing Box – Upper, TNT-12		792886
	Packing Box – Upper HDL643	2	794413
	Packing Box – Upper, TNT-12		792843
37	S3R Seal	2	794456
37A	Seal Cup	2	794455
	Seal Cup, TNT-12		794462
37B	Seal Cup Cover	2	794454
62A	O-ring (Buna-N)	2	792311
	O-Ring (FKM) *		792313
	O-Ring (PTFE) *		792312
	O-Ring (Neoprene) *		792314
	O-Ring (Ethylene Propylene) *		792320
63K	Capscrew – Socket Head	16	794460
63L	Capscrew – Socket Head	4	794461
67A	Washer - Packing Box	16	794084
102	Packing Installation Tool	1	790538

* Included in gasket sets.

Refer to the Compressor IOM for proper orientation of components.





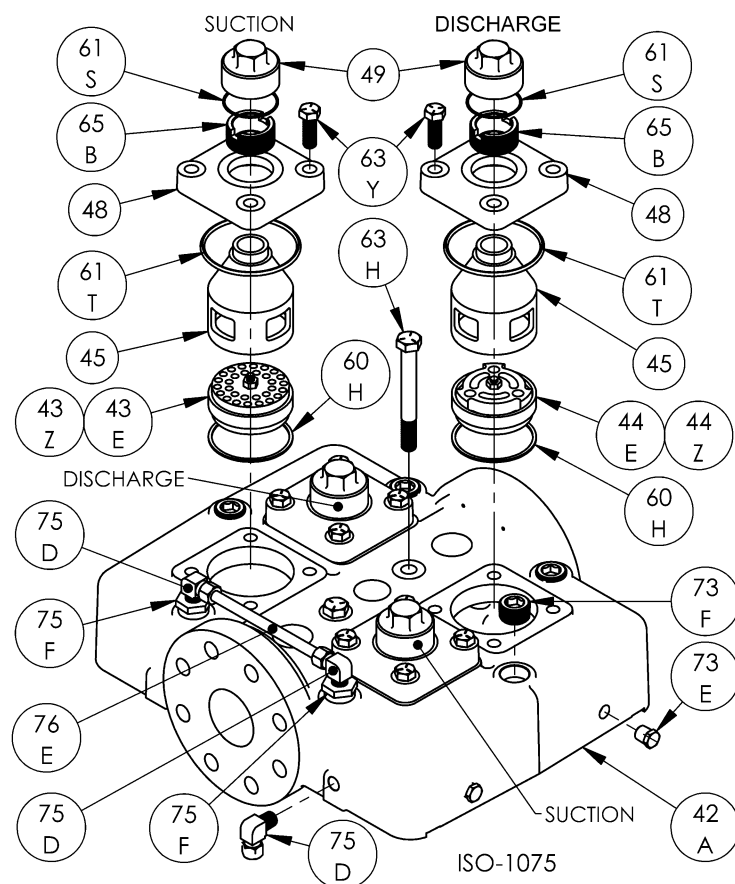
Cylinder Assembly: HDL642C|B, HDL643C|B

ISO1074

Ref	Description	Qty	Part No
22B	Piston Shim - 0.015	AR	794434
	Piston Shim - 0.007		794436
36	Cylinder Cylinder TNT-12	1	794505 792890
39	Piston Piston TNT-12	2	794508 792891
40	Expander	6	794615
41	Piston Ring – Glass/Moly Filled, Std Piston Ring - Poly Filled	6	794611 794613
61J	O-Ring (Buna N) Std *	2	794651
	O-Ring (FKM) *		794653
	O-Ring (PTFE) *		794652
	O-Ring (Neoprene) *		794654
	O-Ring (Ethylene Propylene) *		794655

Ref	Description	Qty	Part No
61K	O-Ring (Buna N) Std *	2	794104
	O-Ring (FKM) *		794106
	O-Ring (PTFE) *		794105
	O-Ring (Neoprene) *		794108
	O-Ring (Ethylene Propylene) *		794110
63R	Capscrew - Hex Hd ¹	8	794097
67C	Thrust Washer	2	794433
69A	Piston Nut Piston Nut TNT-12	2	794422 792834
73C	Lock Plug *	4	794222
73D	Pipe Plug	1	908198
73F	Pipe Plug 1"	6	790452
75D	Tube Elbow	1	790367
76E	Tube – 3/8" Copper	1	790319

* Included in Gasket Sets



Head Assembly: HDL642C|B, HDL643C|B

Ref	Description	Qty	Part No
42A	Head Head TNT-12	1	794504 792877
43E	Suction Valve Assy, Stainless Steel Suction Valve Assembly TNT-12 Suction Valve Assembly, PEEK	2	794506 792872 793659
43Z	Valve Repair Kit - For 794506 Valve Repair Kit - For 793659/793679		794509 793660
44E	Discharge Valve Assy, Stainless Steel Discharge Valve Assembly TNT-12 Discharge Valve Assembly, PEEK	2	794507 792873 793679
44Z	Valve Repair Kit - For 794507 Valve Repair Kit - For 793659/793679		794510 793660
45	Cage Cage TNT-12	4	794620 792835
48	Valve Cover Plate Valve Cover Plate TNT-12	4	794284 792817
49	Valve Cap Valve Cap TNT-12	4	792003 792804

ISO1075

Ref	Description	Qty	Part No
60H	Gasket - Valve *	4	794198
61S	O-Ring (Buna-N) Std * O-Ring (FKM) * O-Ring (PTFE) * O-Ring (Neoprene) * O-Ring (Ethylene Propylene) *	4	792306 792308 792307 792309 792310
61T	O-Ring (Buna-N) Std * O-Ring (FKM) * O-Ring (PTFE) * O-Ring (Neoprene) * O-Ring (Ethylene Propylene) *	4	792112 792213 792210 792110 792206
63H	Capscrew - Hex Hd	2	794115
63Y	Capscrew - Hex Hd	16	793094
65B	Valve Holddown Screw Valve Holddown Screw TNT-12	4	792002 792806
73E	Pipe Plug	2	908198
73F	Pipe Plug 3/4"	4	790451
75D	Tube Elbow	3	790367
75F	Pipe Bushing	2	790450
76E	Tube - 3/8" Copper	1	790359

* Included in Gasket Sets

Head Assembly with Unloaders: HDL642C|B, HDL643C|B

Ref	Description	Qty	Part No
9E	Unloader Spring	2	793293
42A	Head Head TNT-12	1	794504 792877
43E	Suction Valve Assy, Stainless Steel Suction Valve Assembly TNT-12 Suction Valve Assembly, PEEK	2	794506 792872 793659
43Z	Valve Repair Kit - For 794506 Valve Repair Kit - For 793659/793679		794509 793660
44E	Discharge Valve Assy, Stainless Steel Discharge Valve Assembly TNT-12 Discharge Valve Assembly, PEEK	2	794507 792873 793679
44Z	Valve Repair Kit - For 794507 Valve Repair Kit - For 793659/793679		794510 793660
45	Cage Cage TNT-12	4	794620 792835
48	Valve Cover Plate Valve Cover Plate TNT-12	4	794284 792817
49	Valve Cap Valve Cap TNT-12	2	792003 792804
60H	Gasket - Valve *	4	794198
61S	O-Ring (Buna-N) Std * O-Ring (FKM) * O-Ring (PTFE) * O-Ring (Neoprene) * O-Ring (Ethylene Propylene) *	4	792306 792308 792307 792309 792310
61T	O-Ring (Buna-N) Std * O-Ring (FKM) * O-Ring (PTFE) * O-Ring (Neoprene) * O-Ring (Ethylene Propylene) *	4	792112 792213 792210 792110 792206

Ref	Description	Qty	Part No
61Z	O-Ring (Buna-N) Std * O-Ring (FKM) * O-Ring (PTFE) * O-Ring (Neoprene) * O-Ring (Ethylene Propylene) *	2	792311 792313 792312 792314 792320
63H	Capscrew - Hex Hd	2	794115
63M	Capscrew - Hex Hd	12	797093
63Y	Capscrew - Hex Hd	16	793094
65B	Valve Holddown Screw Valve Holddown Screw TNT-12	4	792002 792806
73E	Pipe Plug	2	908198
73F	Pipe Plug 3/4"	4	790451
75D	Tube Elbow	1	790355
75E	Tube Tee	1	790356
75F	Pipe Bushing	2	790450
75G	Tube Elbow	3	790367
76D	Tube - 1/4" SS	1	790357
76E	Tube - 3/8" Copper	1	790359
98A	Actuator Assembly Actuator Assy, for SS Valve	2	794296 794298
98B	Unloader Post w/bolt ¹ Unloader Post w/bolt ¹ , for SS Valve	2	793291 794291
98C	Unloader Piston	2	793288
98D	Unloader Body	2	793286
98E	Unloader Plunger	2	794290
98F	Unloader Seal	4	792284
98G	Unloader Cap	2	793287
98H	Lockwasher (2 Piece)	2	793473

* Included in Gasket Sets

¹ Unloader Post with bolt replaces earlier style unloader post with retainer ring.

Suggested Spare Parts for HDL643C compressors:

Part #	Description	Qty./ Unit	Comm. Qty.	Spare Qty.
794594	Gasket Set – Buna-N	1	1	1
794593	Gasket Set - PTFE *			
794592	Gasket Set - FKM *			
794590	Gasket Set - Neoprene *			
794589	Gasket Set - Ethylene Propylene *			
794509	Suction Valve Repair Kit - Stainless Steel	2		2
793660	Suction Valve Repair Kit – PEEK *			
794510	Discharge Valve Repair Kit - Stainless Steel	2		2
793660	Discharge Valve Repair Kit – PEEK *			
792284	Unloader Seal *	4		4
794611	Piston Ring - Glass/Moly Filled	6	6	6
794613	Piston Ring - Poly Filled *			
794615	Piston Ring Expander	6	6	6
794498	Packing Set	6	6	6
790538	Packing Installation Tool	1	1	1
794726	Oil Filter	1		6
794727	Wrist Pin	2		2
794776	Wrist Pin Roller Bearing	4	4	4
794710	Conrod Bearing	2	2	2
The following parts would normally be required only for major compressor overhaul.				
794730	Inboard Bearing Cone	1		1
794731	Inboard Bearing Cup	1		1
794130	Outboard Bearing Cone	1		1
794131	Outboard Bearing Cup	1		1
794435	Crosshead Assembly	2		2
794456	S3R Seal	2		2
794767	Conrod Assembly	2		
794760	Oil Pump Repair Kit	1		
794708	Crankshaft Assembly	1		
794733	Bearing Adjustment Shim Kit	1		
794505	Cylinder	1		
792890	TNT-12 Treated Cyl. *			

* Optional Equipment on New Compressors

Notes: