INSTALLATION and MAINTENANCE INSTRUCTIONS UH28 UNIVERSAL HOSE REEL-CHAIN DRIVE



NOTE: These instructions are written for machine pull reels.
If installing or servicing hand pull reel, use only those steps marked with hand Is a step with hand Is

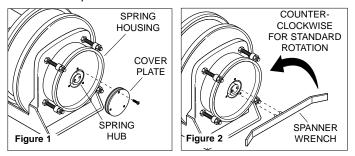
All units are provided with right hand rotation unless otherwise specified. This means that hose is pulled off spool top left or bottom right (spool rotates clockwise to wind hose) **when viewing spring end of reel.** See diagram on parts page.

Clock-type springs provide power for automatic hose take-up. **Spring must be pretensioned at time of installation** to insure that tension is applied to hose at all times. A tension adjustment spanner wrench is provided with each reel.

INSTALLATION

If machine pull reel, move machinery to position closest to reel before adjusting spring tension. Adjusting tension with hose extended may result in damage to reel or personal injury.

- 1. Install hose if reel was purchased without hose. See instructions on page 4.
- 2. Insure that machinery to be serviced by reel is at position closest to reel.
- CSF2. Securely mount reel in desired position using 1/2"(M12). Be sure spool is aligned with hose run.
- 3. Position hose guide if supplied so hose pays-out as straight as possible through hose guide.
- 4. Connect free end of hose to connections on machine or adjust hose stop so that desired length of hose extends from reel.
- CSP 5. Connect flexible supply lines to swivel fitting. See HOSE INSTALLATION REFERENCE DRAWING. NOTE: Do not hard plumb to swivel fitting.
- 6. Remove cover plate on spring housing to expose shaft and spring hub. (See Figure 1).
- 7. Insert spanner wrench into holes in spring hub (Fig 2). Rotate spanner wrench counter-clockwise. Number of 360° turns should match last digit in model number on serial plate.

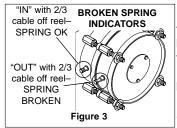


Do not exceed number of turns indicated on serial plate. Over-tensioning can cause a broken spring, sheared shaft or other damage.

Do not attempt to relieve spring tension using spanner wrench. Doing so may result in personal injury.

Some reels with large or multiple springs are equipped with a ratcheted adjustment wrench. Follow separate instructions for its use. Failure to use ratcheted wrench, on reels so equipped, could result in serious personal injury.

MAINTENANCE



Periodically: A. Inspect hose for wear and check mounting bolts and other hardware for tightness.

B. Check for broken springs by pulling about 2/3 hose off reel and observing "Broken Spring Indicators" on sides of spring canisters (Fig. 3).

C. Periodically remove top chain guard (Fig 4) and grease roller chain. **NOTE:** Bearings and springs are prelubricated and require no periodic maintenance.

SPRING REPLACEMENT

The unique SAFETYCHANGE® spring motor consists of a spring and hub sealed within a housing. A

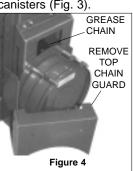
replacement spring is supplied sealed in its housing and the old unit should be discarded completely.

Do not attempt to remove spring from its housing. Clocktype springs can be dangerous to handle. Removal of spring from housing could result in personal injury.

- I. Turn off supply pressure to reel.
 - 2. Insure that machinery to be serviced by reel is at position closest to reel. Disconnect hose from machine connections.
- 3. Wind all hose onto reel to relieve all spring tension.
- 374. Remove inspection cover from face of spring housing.
- 5. Rotate spool clockwise and observe inner shaft. Shaft should rotate clockwise and hub (with spring attached) should remain stationary.

NOTE: Do not attempt to remove spring if resistance is met or hub tends to rotate with shaft. Continue to rotate spool and strike end of shaft several sharp blows with a lead hammer or rubber mallet until shaft rotates freely and hub remains stationary.

- 376. Remove (4) bolts which secure spring motor to frame.
- 37. Slide spring motor off shaft and discard.



CHAIN DRIVE UH28 UNIVERSAL HOSE REEL REPLACEMENT PARTS LIST

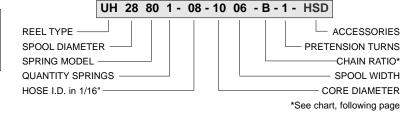
ITEM	PART NO.	DESCRIPTION	QTY.		PART NO	. DESCRIPTION	
1	042018	Vertical Frame Assy., Swivel Side		QTY. 20	103826	Housing. 1" Bore Bearing	4
2	012140	Housing, 2" Bore Bearing	2			ũ ũ	
3	103837	Ball Bearing, 2" Bore	1	21	103825	Ball Bearing, 1" Bore	2
				22	042042	Outside Gearbox Plate	1
4	038424	Flat Washer, M8	9	23	042043	Stub Shaft, Chain Drive	1
5	028268	ESNA Lock Nut, M8–1.25	8	24	029880	Кеу	1
6	042008	Vertical Frame Assy., Drive Side	1	25	046803	Sprocket-50B12	1 1
7	119114	Housing, 1.75" Bore Bearing	2	25 25	042045 042046	Sprocket–50B15 Sprocket–50B16	1
8	103823	Ball Bearing, 1.75" Bore	1	25 25	042047 042049	Sprocket–50B18 Sprocket–50B24	1 1
9	042030	Spool Support Hub, Drive Side	1	25 25	042050 046804	Sprocket–50B36 Sprocket–50B39	1 1
10	012137	Stub Shaft Drive Pin	1	25 25	042051 046802	Sprocket–50B40 Sprocket–50B45	1 1
11	118322	Retaining Ring	1	25	042052	Sprocket–50B48	1
12	042028	Spool Disk, U28	2	26 Not showr	104789 015680	Roller Chain (May be shortened as Required) Connecting Link	3.5 ft. 1
13	04271001	Wrapper Assy. Kit, 6"w, 10"–12"dia. core (Includes segments & hardware)	1	27	031484	Hex Hd. Cap Screw, M12–1.75 x 35L	4
13 13	04271002 04271003	Wrapper Assy. Kit, 8"w, 10"–12"día. core Wrapper Assy. Kit, 10"w, 10"–12"dia. core	1 1	28	025942	Lockwasher, M12	4
13 13	04271004 04271005	Wrapper Assy. Kit, 12"w, 10"–12"dia. core Wrapper Assy. Kit, 14"w, 10"–12"dia. core	1 1	29	025941	Hex Nut, M12–1.75	4
13 13	04271006 04271007	Wrapper Assy. Kit, 6"w, 14"–18"dia. core Wrapper Assy. Kit, 8"w, 14"–18"dia. core	1	30	042044	Bottom Guard, Chain Drive	1
13	04271008 04271009	Wrapper Assy. Kit, 10"w, 14"–18"dia. core Wrapper Assy. Kit, 12"w, 14"–18"dia. core	1 1	31	042184	Top Guard, Chain Drive	1
13	04271009	Wrapper Assy. Kit, 12 w, 14 – 16 dia. core Wrapper Assy. Kit, 14"w, 14"–18"dia. core	1	32	028151	Hex Hd. Cap Screw. M6-1.0 x 12L	4
14	042711	Hose Adapter Kit, 0.25NPT, Standard Rotation	1	33	042168	•	1
14	042712	(Includes swivel, hub, reducer & elbow) Hose Adapter Kit, 0.38NPT, Standard Rotation	1	33	042169	Stub Shaft, 1002, Chain, Standard Rotation Stub Shaft, 1001, Chain, Standard Rotation	1
14 14	042713 042714	Hose Adapter Kit, 0.50NPT, Standard Rotation Hose Adapter Kit, 0.75NPT, Standard Rotation	1 1	33 33	042172 042173	Stub Shaft, 802/622/752, Chain, Std. Rot. Stub Shaft, 801/621/751, Chain, Std. Rot.	1 1
14	042715	(Includes swivel, hub & goose neck fitting) Hose Adapter Kit, 1.00NPT, Standard Rotation	1	33 33	042176 042177	Stub Shaft, 1002, Chain, Reverse Rotation Stub Shaft, 1001, Chain, Reverse Rotation	1 1
14 14	042716 042717	Hose Adapter Kit, 1.25NPT, Standard Rotation Hose Adapter Kit, 1.50NPT, Standard Rotation	1 1	33 33	042180	Stub Shaft, 802/622/752, Chain, Rev. Rot.	1
14 14	04271401 04271501	Hose Adapter Kit, 0.75NPT, Reverse Rotation Hose Adapter Kit, 1.00NPT, Reverse Rotation	1 1		042181	Stub Shaft, 801/621/751, Chain, Rev. Rot.	1
14 14	04271601 04271701	Hose Adapter Kit, 1.25NPT, Reverse Rotation Hose Adapter Kit, 1.50NPT, Reverse Rotation	1 1	34	012426	Pawl Kit (62, 75 & 80 Springs) (Includes 2 pawls & springs)	AR
14a	102159	Swivel Joint Only, 0.25 (Reducer Required)	1	34	012427	Pawl Kit (100 Spring)	AR
14a	102159	Swivel Joint Only, 0.38 (Reducer Required)	1	35 35	042183 042182	Stand–off, 62, 75 & 80 Springs Stand–off, 100 Spring	AR AR
14a 14a	102159 024670	Swivel Joint Only, 0.50 Swivel Joint Only, 0.75	1 1	36	029159	Flat Washer, M12	4
14a	102160	Swivel Joint Only, 1.00	1	37	028502	ESNA Nut, M12–1.75	4
14a 14a	102161 041276	Swivel Joint Only, 1.25 Swivel Joint Only, 1.50	1 1			,	
15	028138	Lockwasher, M10	4	38	042725	Spring Motor Kit, 62, Standard Rotation (Includes items 20, 27, 28, 29, & 30)	AR
16	028131	Hex Hd. Cap Screw, M10–1.5 x 20L	4	38 38	042730 042726	Spring Motor Kit, 62, Reverse Rotation Spring Motor Kit, 75, Standard Rotation	AR AR
17	04272201	Bottom Base Kit, 6" wide Wrapper	1	38 38	042731 042724	Spring Motor Kit, 75, Reverse Rotation Spring Motor Kit, 80, Standard Rotation	AR AR
		(Includes mounting hardware) Bottom Base Kit, 8" wide Wrapper		38 38	042729 042723	Spring Motor Kit, 80, Reverse Rotation Spring Motor Kit, 100, Standard Rotation	AR AR
17	04272202 04272203	Bottom Base Kit, 10" wide Wrapper	1	38	042728	Spring Motor Kit, 100, Reverse Rotation	AR
17 17	04272204 04272205	Bottom Base Kit, 12" wide Wrapper Bottom Base Kit, 14" wide Wrapper	1 1	39	G51–23	Gasket, Hub Cover	1
18	042733	Spanner Wrench (35–80 Springs)	1	40	G27–42	Hub Cover, Springs	1
18	042734	(Includes mounting hardware) Spanner Wrench (100 Springs)	1	41	101220	Screw, #8–32 x 0.25" Lg.	3
19	042041	Gearbox backplate	1	42	021762	Hub Lock Pin Kit (100 Springs) (Includes two pins)	1
20	103826	Housing. 1" Bore Bearing	4	42	021761	Hub Lock Pin Kit (All Other Springs)	1
				43 43	042735 042736	Ratchet Wrench Kit (35–80 Springs) Ratchet Wrench Kit (100 Springs)	1 1

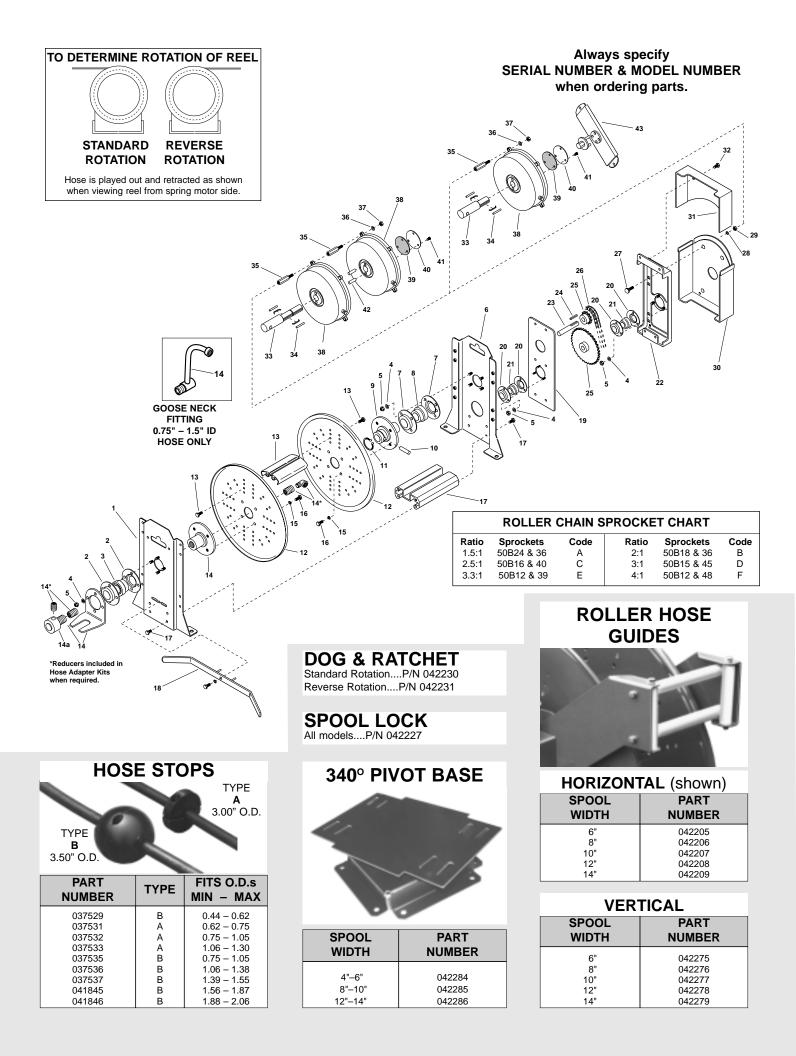
ACCESSORY CODE

Vertical Roller Guide = V Spool Lock = S

Horizontal Roller Guide = H 340° Pivot Base = P Dog & Ratchet (ratchet lock) = D Limit Switch = L

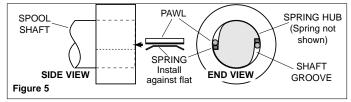
Reel Model Number Structure





38. Install replacement spring motor, pawls and pawl springs.

NOTE: Pawl springs must be located between the pawls and the deepest section of the shaft grooves. Make sure that pawls and pawl springs are inserted flush with ends of shaft and hub or they may rub against inspection cover (Fig. 5).



39. Tighten bolts securing spring housing to reel frame.

- 10. Connect free end of hose to connections on machine or adjust hose stop so that desired length of hose extends from reel.
 - 11. Tension spring with spanner wrench. Refer to **INSTALLATION** section.
- 12. Replace inspection cover.

HOSE REMOVAL

Use the following procedure to remove worn or damaged hose from reel prior to installation of new hose.

1. Move machine serviced by reel to a position closest to reel. Spring will still be under pre-tension at this point.

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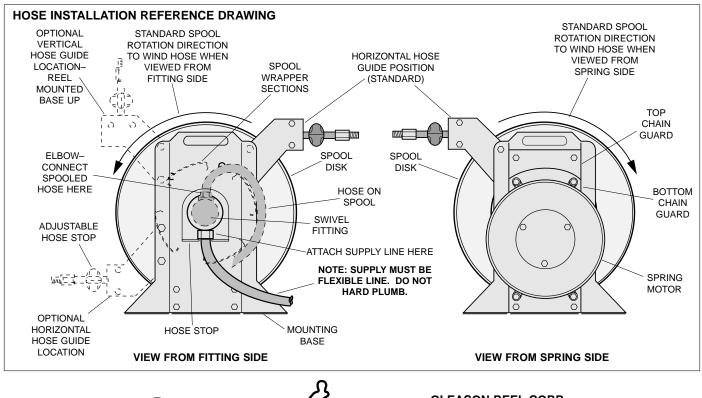
^{CST}2. Turn off supply pressure to reel.

- 3. Disconnect hose from machine or other attachments. Remove hose stop, if installed, and allow hose to retract onto spool. Ensure all tension is off spring by manually rotating spool (normally clockwise when viewed from spring side).
- 4. Unwrap hose without allowing spool to turn.
- ⁽³⁾5. Disconnect hose from elbows inside spool wrapper.
- 6. Install new hose following directions below.

HOSE INSTALLATION

Use the following procedure to replace hose or if reel was ordered without hose. Refer to HOSE INSTALLATION REFERENCE DRAWING, below.

- 1. Unspool new hose from shipping spool and lay out to eliminate twist.
 - NOTE: This step is not essential, but will aid in winding operation of the reel and prolong hose life.
- 2. Insert hose end through guide and connect to elbows inside spool wrapper. (See drawing below.)
- 5. Wind the hose onto the reel spool by hand rotating spool in direction it turns free of spring tension. (Normally clockwise when viewed from spring side)
- 6. Adjust hose stop (not used on machine pull reel).
- ^C7. Complete working end connections.
- *8. Pretension reel and complete installation as described in REEL INSTALLATION section.



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