

INTRODUCTION

This Service Packet provides information for removal of factory-applied rust inhibitor from the pawl assembly of the CF Hand Chain Hoist, and the subsequent lubrication of the pawl assembly, in accordance with Harrington's Product Issue Notification issued November 11, 2019. This Product Issue Notification applies to all CF Hand Chain Hoists manufactured between March 1, 2019 and October 7, 2019. This specifically includes the following products.

- CF hoists, all capacities: ½ ton, 1 ton, 1-1/2 ton, 2 ton, 3 ton, and 5 ton.
- NTH Navy Trolley Hoists, push & geared, all capacities: 1 ton, 2 ton, 3 ton, and 5 ton.

[NTH is included because it is the combination of the CF hoist with a low headroom trolley]

SERVICE PACKET CONTENTS

- A. Arranging the Service
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- D. Service Centers

ARRANGING THE SERVICE

Included in this Service Packet is a list of service centers that are prepared to perform the service at no charge to you. In lieu of arranging the service by one of these facilities, this service can be performed by a person with good mechanical skills, knowledge, and experience with access to the CF or NTH Owner's Manual (available for download at Harrington's website: <https://www.harringtonhoists.com/>).

SERIAL NUMBER EXPLANATION

Two sets of characters are etched into the CF nameplate. The first is a set of four (4) numerals. This is the lot number. The second is a set of seven (7) characters. This is the serial number. The first character of the serial number is a letter (A through Z), and the next six (6) are numerical. The first character indicates the year of manufacture. The letter I indicates 2019 as the year of manufacture. And the six numerals that follow give the hoist a unique identifier.

SERVICE PROCEDURE

[Note: This procedure is based on and equivalent to, Harrington's internal work instruction EDOC1284, Rev. 04]

1. Record and report the hoist's serial number(s) to Harrington's Product Support Team.

Phone: (800) 233-3010

Email: techsupport@harringtonhoists.com

2. A supplemental informative video is available here to provide step-by-step instructions:

Go to the Technical Support tab of Harrington's website and click on "CF Pawl."

3. Tools and Materials required:

- #3 Phillips screw driver
- Needle nose pliers
- Side cutters
- Feeler gauge (up to 0.15 inches)
- Brakleen 05089 or equivalent
- Lubricating oil with anti-rust properties suitable for cold temperatures such as Super Lube Synthetic Oil (ISO 68)
- Clean, dry cloths

4. Remove Hand Wheel Cover / Hand Chain



Remove Hand Wheel Cover

- A. Use a #3 Phillips screwdriver to remove three (3) screws and lock washers. Set aside for reassembly.
- B. Remove hand wheel cover from the hoist and set aside.



Remove Hand Chain

- C. Place a link of hand chain into the hand wheel slot and rotate counter-clockwise.

5. Remove Hand Wheel / Ratchet Disc and Brake Pad



Remove Hand Wheel

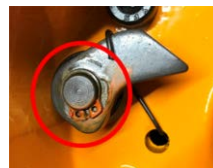
- A. Use side cutters and needle nose pliers to remove the split pin. DISCARD split pin.
- B. Remove wheel stopper pin and wheel stopper.
- C. Hold load chain to keep it from moving and rotate hand wheel counter-clockwise to remove.



Remove Ratchet Disc and Brake Pad

- D. Remove the top friction plate (brake pad) and ratchet disc.
- E. DO NOT REMOVE ratchet disc bushing, lower friction plate (brake pad), or friction disc. Leave these components in place.

6. Spray Cleaner / Exercise Pawl



Spray Cleaner

- A. Use a clean dry cloth to cover the brake area to protect the friction plate (brake pad) and friction disc from any contamination during spraying.
- B. Spray "Brakleen 05089" or equivalent on to the entire top area of the pawl pin and snap ring for 1 second. [non-chlorinated cleaner may be used if chlorinated is not available. DO NOT USE Carburetor Cleaner].

Exercise Pawl

- C. Rotate the pawl back-and-forth around the pawl pin SEVERAL times until the pawl moves freely.

DO NOT REMOVE or otherwise dislodge the snap ring on top of the pawl.

7. Remove rust inhibitor from the pawl assembly



Blowing Air

- A. Keep the cloth from #5A in place. Blow air at the entire top area of the pawl and snap ring for at least 3 seconds to remove cleaner and dissolved rust inhibitor from the pawl assembly.



Wiping Cleaner and Rust Inhibitor

- DO NOT REMOVE or otherwise dislodge the snap ring on top of the pawl.
- B. Use a clean dry cloth to wipe away and remove all left-over or remaining cleaner and rust inhibitor. Pay particular attention to the areas in the blue circles.
- C. If you discover any remnants of the rust inhibitor on the friction plate (brake pad) or friction disc, use fresh cleaner and a fresh clean dry cloth to clean it off.



8. Apply Lubricant to Pawl Assembly / Begin Reassembly



Apply Lubricant

- A. Keep the cloth from #4A in place. DO NOT GET LUBRICANT ON BRAKE COMPONENTS.
- B. Apply lubricating oil with anti-rust properties suitable for cold temperatures such as Super Lube Synthetic Oil (ISO 68) (contact Harrington Product Support Team for questions) to top area of pawl pin, snap ring, and pawl spring.
- C. Exercise the pawl by rotating it back-and-forth around the pawl pin SEVERAL times to work the lubricant in and around the pawl assembly.
- D. Confirm one (1) friction plate (brake pad) is installed on the friction disc. This brake pad will be under the ratchet disc.



Install Ratchet Disc and Brake Pad

- E. Hold the pawl back against the spring tension while installing the ratchet disc.
- F. Release the pawl. It will contact the ratchet disc.
- G. Install the remaining friction plate (brake pad) on top of the ratchet disc.
- H. Rotate the ratchet disc clockwise. Confirm the pawl rides up and down the ratchet disc teeth, and snaps crisply from one tooth to the next, and makes a distinct clicking sound.
- I. Confirm there is one (1) brake pad under the ratchet disc, and one (1) brake pad on top of the ratchet disc.

9. Reassemble / Test



Install Hand Wheel

- A. Place hand wheel on to pinion shaft, then rotate hand wheel clockwise on to pinion shaft.
- B. Place wheel stopper on pinion shaft. Insert wheel stopper pin through hole in wheel stopper and hole in end of pinion shaft.
- C. Measure the gap between the underside of the wheel stopper and the hand wheel. Confirm it is no more than 0.106 inches (2.7 mm)..
- D. Install a NEW M2 x 8 split pin in the wheel stopper pin. Bend both legs of the split pin completely over.

Install Hand Chain

- E. Place hand chain into pockets of hand wheel with WELDS FACING AWAY FROM HAND WHEEL. Put one link in the slot in the hand wheel and rotate the hand wheel clockwise.

Install Hand Wheel Cover

- F. Place the hand wheel cover into place over the hand wheel.
- G. Install the three (3) screws and lock washers removed in step #4A. Tighten firmly using a screw driver. DO NOT OVER-TIGHTEN ... DO NOT USE POWER DRIVER TO TIGHTEN SCREWS.

Testing

- H. Exercise the hoist using the hand chain as in normal operation. Confirm no abnormalities.
- I. Perform an operational test in accordance with ASME B30.16: First confirm lifting and lowering functions work under no load. Then apply a load (minimum of 50 lbs per load supporting part of chain) and lift and lower to verify load control and brake operation. Perform a load test in accordance with ASME B30.16, unless a qualified person determines it is not required. Contact the Harrington Product Support Team at (800) 233-3010 with questions or for guidance.

LIST OF SERVICE CENTERS

These service centers are prepared to perform the service described in this Service Packet at no charge to you. Service centers will report the serial numbers of hoists serviced to Harrington in accordance with Harrington's Warranty Claim System.

ALABAMA

Alabama Sling
4104 Hoke Avenue
Dolomite 35061
(205) 744-0230

Tool-Smith Co. Inc.
1300 4th Ave. South
Birmingham 35233
(205) 323-2576

Tool-Smith Co. Inc.
927 Lakeside Drive
Mobile 36693
(251) 661-0404

ALASKA

Jackovich Industrial
1716 North Post Road
Anchorage 99501
(907) 277-1406

Washington Crane & Hoists
651 East 100th Ave Unit B
Anchorage 99515
(907) 336-6661

ARIZONA

Certex West
2535 North Jackrabbit Road
Tucson 85745
(520) 884-5846

ARKANSAS

Handling Systems & Conveyors
10909 Otter Creek East Blvd
Mabelvale 72103
(817) 236-2100

Hi-Speed Industrial Service
6812 Lindsey Road
Little Rock 72206
(501) 375-9178

Industrial Splicing & Sling Inc.
3729 Wheeler Avenue
Fort Smith 72902
(479) 649-8388

CALIFORNIA

Allied Crane Inc
855 North Parkside Drive
Pittsburg 94565
(925) 427-9200

American Rigging & Supply
2380 Main Street
San Diego 92113
619-233-5625

Barbary Coast / Signal Rite
2040 Farallon Drive
San Leandro 94577
(510) 315-7124

Crane Tech, Inc.
3540 East Carpenter Rd
Stockton 95215
(209) 824-4500

Craneveyor Corp.
1524 North Potrero Avenue
South El Monte 91733
(626) 442-1524

Carpenter Rigging Supply
222 Napoleon Street
San Francisco 94124
(415) 285-1954
Contact:
Email:

Pacific Coast Air Tool
3630 Placentia Court
Chino 91710
(909) 627-0948

COLORADO

Ace Industries, Inc.
6400 East Stapleton South Drive
Denver 80216
(800) 733-2231

Delta Rigging & Tools Inc
d/b/a D & M Wire Rope
722 Scarlet Street
Grand Junction 81505
(970) 242-1144

Denver Wire Rope & Supply
4100 Dalhia Street
Denver 80216
(303) 377-5166

CONNECTICUT

Production Equipment
401 Liberty Street
Meriden 06450
(203) 235-5795

Cableworks Inc.
58 Highland Drive
Putnam 06260
(860) 928-0478

DELAWARE

Bruce Industrial Co.
4049 New Castle Avenue
New Castle 19720
(302) 655-9616

Fiduks Industrial Services
7 Mecocircle
Wilmington 19804
(302) 994-2534

FLORIDA

Certex USA
4720 110th Avenue North
Clearwater 33762
(727) 540-0720

Certified Slings, Inc.
6820 E Adamo Drive
Tampa 33619
(813) 623-6677

Consolidated Rigging & Marine
4700 North Pearl Street
Jacksonville 32206
(904) 765-7177

Diversified Lifting Systems
4702 Distribution Drive
Tampa 33605
(813) 248-2299

Florida Handling Sys.
2651 State Road 60 West
Bartow 33830
(800) 664-3380

GEORGIA

Ace Industries
6295 McDonough Dr
Norcross 30093
(770) 441-0898

Ashley Sling Inc
100 Great Southwest Parkway
Atlanta 30336
(404) 691-2604

HAWAII

Coordinated Wire Rope of Hawaii
120 Mokauea Street Suite F
Honolulu 96819
(808) 843-2020

IDAHO

Boise Rigging Supply
6750 West Victory
Boise 83709
(208) 342-8919

ILLINOIS

Chicago Jack Service
2000 South 25th Avenue
Broadview 60155
(708) 681-1800

Industrial Tool Products
919 North Central Ave.
Wood Dale 60191
(630) 766-4040

Illinois Electric Works
2161 Adams Street
Granite City 62040
(618) 451-6900

John Sakach Company
30 Central Industrial Drive
Granite City 62040
(618) 451-2907

Rockford Rigging Inc.
5401 Main Sail Drive
Roscoe 61073
(815) 877-0007

S & K Air Power Tool & Supply
2202 North 40th
Decatur 62526
(217) 424-8500

UESCO Industries Inc.
5908 W 118th Street
Alsip 60803
(708) 385-7700

INDIANA

American Wire Rope & Sling
3122 Engle Road
Fort Wayne 46809
(260) 478-4700

Cranewerks
511 North Range Line Road
Morristown 46161
(765) 763-8959

Fulcrum Lifting
400 N. Yankeetown Road
Boonville 47601
(812) 897-3488

Fulcrum Lifting
3335 Industrial Parkway
Jeffersonville 47130
(812) 282-3667

Hoosier Crane Service Co
58144 Charlotte Ave
Elkhart 46517
(574) 523-2945

KANSAS

American Riggers Supply
1010 Kansas Avenue
Kansas City 66105
(913) 371-1357

Nelson, Inc.
8900 West Monroe Circle
Wichita 67209
(316) 722-9020

WM F Hurst Co LLC
2121 S W Blvd
Wichita 67213
(972) 647-0161

KENTUCKY

Carroll Engineering
227 Industrial Park Road
Harlan 40831
(606) 573-1000

LOUISIANA

Beerman Precision Inc.
4206 Howard Avenue
New Orleans 70125
(504) 207-6000

Delta Rigging & Tools
6938 Exchequer Drive
Baton Rouge 70809
(225) 752-4884

Hoist & Crane Service Group
9221 Raton Avenue
Baton Rouge 70814
(225) 926-7262

Sigler Industrial Inc.
6911 Exchequer Dr.
Baton Rouge 70809
(225) 751-8262

MAINE

New England Crane
2 Cedar Street
Lewistown 04240
(207) 782-7353

Somatex Inc.
Route 100
Pittsfield 04967
(207) 487-6141

MARYLAND

Crane 1 Services
7 Ann Avenue
Baltimore 21221
(410) 238-7680

Freeland Hoist & Crane
1600 South Caton Avenue
Baltimore 21227
(410) 644-6161

Indusco
1200 West Hamburg Street
Baltimore 21230
(410) 727-0665

Zenmar LLC
243 Cockeysville Road
Cockeysville 21030
(410) 785-5790

MASSACHUSETTS

Associated Electro Mechanics
185 Rowland Street
Springfield 01107
(413) 781-4276

Mass Crane & Hoist
72 Progress Avenue
Tyngsboro 01879
(978) 244-0477

MEXICO

Aplicaciones Y Productos Industriales
Norteamerica No 147
Fraccionamiento Industrial
Santa Catarina N.L. C.P. 66350
347-50-44

Hancar Industrial SA de CV
Peninsula 3220 Col Sta
Eduwiges
Guadlajara Jalisco 44850
33-31333444

Polipastos Y Mas S.A. de C.V.
Alfonso Reyes #1898
Fracc B Reyes
Monterrey 64280
818-373-2203

MICHIGAN

Midland Tool
21610 Meyers Road
Oak Park 48237
(248) 548-5800

Mount Clemens Crane & Service
42827 Irwin Drive
Harrison Twp. 48045
(586) 468-0909

Star Crane & Hoist Service
11340 54th Avenue
Allendale 49401
(616) 892-5500

MINNESOTA

Olsen Chain & Cable
7225 Washington Ave. S
Edina 55439
(952) 944-7678

Sharrow Lifting Products
301 Country Road E2 West
New Brighton 55112
(651) 489-1341

Southern Minnesota Inspection
211 Johnson Street
Eagle Lake 56024
(507) 257-3742

MISSOURI

Marcal Rope & Rigging, Inc.
1450 East Trafficway
Springfield 65802
(417) 831-1511

Shannahan Crane & Hoist
11695 Lakeside Crossing Ct
St. Louis 63146
(314) 291-4878

Tri State Equipment Company
4000 Fee Fee Road
Bridgeton 63044
(314) 869-7200

MONTANA

Span-well Service Inc.
1584 Old Highway 10
Forsyth 59327
(406) 356-7653

Industrial Sales & Service
1224 Cordova Street
Billings 59101
(406) 652-7600

NEBRASKA

Crane Sales & Service
5910 South 27th Street
Omaha 68107
(877) 545-9715

Rockford Rigging Inc.
4895 F Street
Omaha 68117
(402) 734-0962

NEVADA

Silver State Wire Rope
8740 S Jones Blvd
Las Vegas 89139
(702) 597-2010

Precision Crane & Hoist Services
2047 Pabco Road
Henderson 89011
(702) 307-3543

Precision Crane & Hoist Services
42 East Freeport
Sparks 89431
(775) 358-0437

NEW JERSEY

Maximum Material Handling
750 Edwards Road
Parsippany 07054
(973) 227-1227

Shupper Brickle Equipment Company
11 Burnt Tavern Road
Clarksburg 08510
(609) 259-1223

NEW MEXICO

Cranes & Material Handling
1715 North 1st Street
Bloomfield 87413
(505) 632-3113

Southwest Power Tools
2029 San Juan Blvd
Farmington 87401
(505) 327-4773

NEW YORK

All Lifts, Inc.
27-39 Thatcher Street
Albany 12207
(518) 465-3461

Carter Milchman & Frank
28-10 37th Avenue
Long Island City 11101
(718) 361-2300

Hanes Supply
55 James E Casey Drive
Buffalo 14206
(716) 826-2636

Zinter Handling
4313 Route 50
Saratoga Springs 12866
(518) 583-0853

NORTH CAROLINA

F & M Mafo
6811 Belt Road
Concord 28027
(704) 792-0144

Hoists Direct Inc.
123 Charter Street
Albemarle 28001
(704) 985-1110

Piedmont Hoist and Crane
8511 A Norcross Road
Colfax 27235
(336) 992-1355

NORTH DAKOTA

Northwest Industrial Supply
2228 East Front Avenue
Bismark 58504
(701) 258-1766

OHIO

Americrane & Hoist Corp.
13224 Enterprise Avenue
Cleveland 44135
(216) 267-9100

Bohl Crane Company
534 West Laskey Road
Toledo 43612
(419) 476-7525

F & M Mafo Inc.
9149 Dry Fork Road
Harrison 45030
(513) 367-2151

Fulcrum Lifting
5246 Wooster Road
Cincinnati 45226
(513) 918-3344

Mazzella Lifting
21000 Aerospace Parkway
Cleveland 44142
(440) 239-7000

West Equipment Company Inc.
1545 East Broadway
Toledo 43605
(419) 698-1601

OKLAHOMA

Air Power Inc.
6336 East 13th Street
Tulsa 74112
(918) 836-1499

Mazzella Lifting Tech
301 South Eagle Lane
Oklahoma City 73128
(405) 206-6719

Wise Choice Crane and Controls
2307 Industrial Road
Sapulpa 74066
(918) 240-2726

Ameracrane & Hoist LLC
16645 East Eastpark
Tulsa 74116
(918) 437-4775

Industrial Splicing & Sling
1842 N. 109th E. Avenue
Tulsa 74116
(918) 835-4452

OREGON

General Tool & Supply Co
2705 N.W. Nicolai Street
Portland 97210
(503) 226-3411

Mallory Safety & Supply
3241 NW Industrial Street
Portland 97210
(360) 636-5750

West Coast Wire Rope
2900 Northwest 29th Ave
Portland 97210
(800) 275-0447

PENNSYLVANIA

Altoona Hoist & Crane
3269 Rt. 764
Duncansville 16635
(814) 696-0350

Amick and Associates
14 Sycamore Street
Carnegie 15106
(412) 429-1212

D R Cordell & Assoc., Inc.
95 West Butler Ave
Chalfont 18914
(215) 822-9345

Hoist & Crane Repair
3321 High Street
Emigsville 17318
(717) 764-8218

Florida Handling Systems Inc.
15550 Elm Drive
New Freedom 17349
(800) 664-3380

Hoist & Crane Service Group
51 Thousand Oak Blvd Suite B
Morgantown 19543
(484) 228-8324

I & I Sling
205 Bridgewater Road
Aston 19014
(610) 485-8500

Keystone Crane & Hoist
396 Morganza Road
Canonsburg 15317
(724) 746-5080

Keystone Maintenance
120 Woodland Avenue
Mohnton 19540
(610) 796-6713

Reading Crane & Engineering
11 Vanguard Drive
Reading 19606
(800) 220-7203

Reliance Crane and Hoist Inc.
1447 West Orange Street
York 17404
(717) 846-0954

Tool Sales & Service
1137 Electric Avenue
East Pittsburgh 15112
(412) 824-0021

SOUTH CAROLINA

Charleston's Rigging & Marine
Hardware Inc.
1304 Meeting Street
North Charleston 29405
(843) 723-7145

SOUTH DAKOTA

Dakota Riggers & Tool
Supply
704 East Benson Road
Sioux Falls 57104
(605) 335-0041

TENNESSEE

Contractors & Industrial Supply Co.
Inc.

1241 Foster Avenue
Nashville 37210
(615) 256-8658

Hi-Speed Industrial Service
7030 Ryburn Drive
Millington 38053
(901) 873-5300

Hoist and Crane Company
100 Fernco Drive
Nashville 37207
(615) 242-3383

Protek Crane Solutions LLC
2784 Highway 31 West
White House 37188
(606) 275-2696

TEXAS

Advanced Crane & Hoist
1706 Roy Road
Pearland 77581
(281) 485-0795

B & M Machinery Company
7170 Copperqueen Drive
El Paso 79915
(915) 772-9007

Crane Tech
2384 West Catlin Street
Odessa 79766
(432) 334-7879

Delta Services
1149 West Hurst Blvd.
Hurst 76053
(817) 589-7983

Delta Rigging & Tools
21525 North Highway 288B
Angleton 77515
(281) 595-4940

F & G Industries
14891 State Hwy 205

Terrell 75160
(972) 563-8333
Global Crane & Service
400 Union Bower Court
Suite 410

Irving 75061
(214) 441-3400
Handling Systems & Conveyors
1300 Meacham Blvd
Ft Worth 76106
(501) 455-5898

Hoist & Crane Service Group
771 East Southlake Blvd Suite 113
Southlake 76092
(469) 904-1113

Kennedy Wire Rope & Sling
302 Flato Road
Corpus Christi 78405
(361) 289-1444

Lone Star Air & Hydraulics
124 S Ward Drive
Longview 75604
(903) 234-8222

Simmers Crane Design & Services Co
14497 Day Road Unit 200
Roanoke 76262
(682) 209-1743

Tool & Hoist Specialities
350 Jordan Valley Drive
Longview 75604
(903) 759-2334

WM F Hurst Co LLC
1209 West Carrier Parkway Suite 300
Grand Prairie 75050
(972) 647-0161

UTAH

American Equipment
451 West 3440 South
Salt Lake City 84115
(801) 269-0896

Elko Wire Rope Inc
2425 West Bridger Road
Salt Lake City 84104
(801) 954-0300

VIRGINIA

Ashley Enterprises
220 Pennsylvania Avenue
Virginia Beach 23462
(757) 793-0535

Foley Material Handling
11327 Virginia Crane Drive
Ashland 23005
(804) 798-1343

I & I Sling
7403 Lockport Place Suite B
Lorton 22079
(703) 550-9405

J Henry Holland Corp
5931-33 Thurston Avenue
Virginia Beach 23455
(757) 460-3300

Williamson & Wilmer Inc.
5110 Byrdhill Road
Richmond 23228
(804) 266-7623

WASHINGTON

Crane Technology
831 South 176th Street
Burien 98148
(206) 248-8146

H & N Electric Inc.
4224 East B Street
Pasco 99301
(509) 547-1691

L. G. Isaacson Company Inc
1331 Industrial Way
Longview 98632
(360) 425-3620

Wemco Inc.
2823 South Craig Road
Airway Heights 99001
(509) 244-4773

WEST VIRGINIA

Crane 1 Services
11301 B McCorkle Avenue
Charleston 25315
(304) 949-1201

WISCONSIN

Kenrich Industrial
W229 N591 Foster Ct.
Waukesha 53186
(262) 548-6200

Wisco Lift
W6396 Specialty Drive
Greenville 54942
(920) 757-8832

Wisconsin Lifting Specialists
2033 West St. Paul Ave.
Milwaukee 53233
(414) 342-7475

WYOMING

Howard Supply Company
1745 South Loop Ave.
Casper 82601
(307) 235-1569

Industrial Hoist & Crane
645 Jonah Rock Springs
Rock Springs 82901
(307) 382-0089

Rocky Mountain Hoist Service
5351 S. Winland Court
Gillette 82717
(307) 682-5724

END