

Reclamation Manual for Ellcon-National
Model 2000 Series Slack Adjuster



Document ID: REC-20-12-99	Date of Issue: 12-31-1999
Approved By:	Date of Last Revision: 11-20-2008

RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

Table of Contents

1.0	GENERAL.....	1
2.0	APPROVED RECLAMATION FACILITY	1
3.0	IDENTIFICATION CHART AND DIMENSIONS	1
4.0	GENERAL INSPECTION.....	1-2
5.0	RECOMMENDED FIXTURES FOR DISASSEMBLY AND TESTING	2-3
6.0	DISASSEMBLY PROCEDURE	3-5
7.0	DISASSEMBLY OF SCREW SUB-ASSEMBLY	5
8.0	CLEANING	5-6
9.0	INSPECTION OF PARTS.....	6
10.0	REPLACEMENT OF PARTS.....	7
11.0	REASSEMBLY PROCEDURE	7-10
12.0	TESTING	10
13.0	FINAL ASSEMBLY	10-11
14.0	MARKING	11
15.0	PAINTING.....	11
16.0	SHIPPING.....	11
17.0	REPLACING OLDER MODEL SLACK ADJUSTERS.....	11
18.0	HISTORY OF DESIGN CHANGES	11-12
	DRAWING DX-2000	13
	DRAWING D-2000-DJRT	14
	SERVICE BULLETIN NO. 7202	15
	SERVICE BULLETIN NO. 7505	16
	SERVICE BULLETIN NO. 7905	17

RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

1.0 GENERAL

- 1.1 Reclamation of all Model 2000 series Slack Adjusters is governed by the following written procedures. These procedures have been drafted in order to facilitate a consistently high level of quality in the reclamation of all slack adjusters.
- 1.2 Reconditioned slack adjusters must meet performance requirements for new slack adjusters as stated in the AAR Manual of Standards and Recommended Practices, Standard S-423, latest revision.

WARNING: Do not handle or carry slack adjuster by the hexagonal screw extension. Hold only at jaw or any part of housing.

2.0 APPROVED RECLAMATION FACILITY

- 2.1 Provide a clean, well-lit workplace equipped with normal workbench tools, degreasing, or cleaning tanks, and special fixtures or equipment, as described, must also be available. Ellcon-National recommends that proper fixtures be used to disassemble, assemble, and test all slack adjusters.
- 2.2 Shop workers and supervisors should study these instructions and become thoroughly familiar with the construction and important design features of all slack adjusters provided in this manual.

3.0 IDENTIFICATION CHART AND DIMENSIONS

- 3.1 Identification chart is located on Sheet 13 and assembly on Sheet 14.
- 3.2 All slack adjusters will have month/year stamped on housing identifying date of manufacture or previous reclamation date.

4.0 GENERAL INSPECTION

- 4.1 Prior to disassembly, all Model 2000 series Slack Adjusters will be visually inspected for damage or wear conditions. Listed below are conditions that would be cause for scrapping of unit:
 - 4.1.1 Bent or damaged Housing (Part No. 3780):
 - 4.1.1.1 If housing has rub marks deeper than 1/8 inch.
 - 4.1.1.2 If housing is bent in any direction.
 - 4.1.2 Fixed Jaw damage (part of Housing Assembly):
 - 4.1.2.1 If jaw is bent beyond repair.

RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

4.1.2.2 If jaw is broken or torched off.

4.1.3 Screw Assembly damage (Part No. 3810):

4.1.3.1 If screw assembly is bent in any direction.

4.1.3.2 If hex section of screw assembly has marks deeper than 1/16 inch.

5.0 RECOMMENDED FIXTURES FOR DISASSEMBLY AND TESTING

5.1 Ellcon-National recommends that a slack adjuster disassembly fixture be used to tear down each unit (Figure 1).

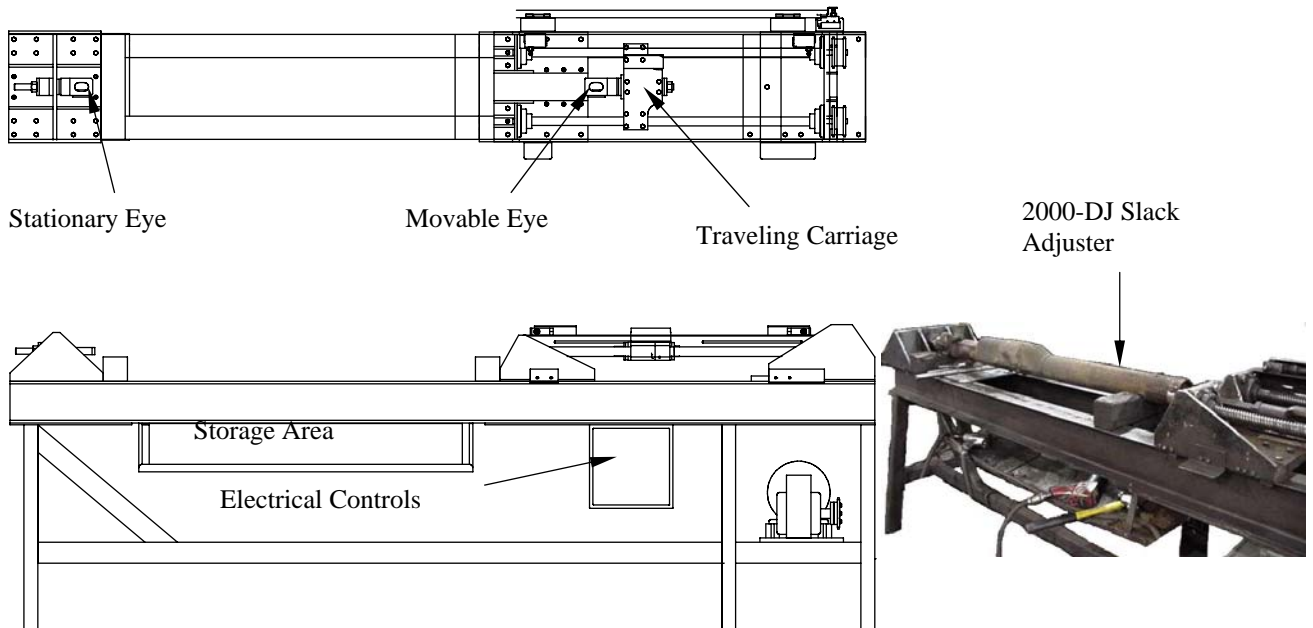


Figure 1: 2000-DJ Slack Adjuster Disassembly Fixture

5.2 Ellcon-National recommends that a load spring removal fixture be used for removal and replacement of load spring (Figure 2).

RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

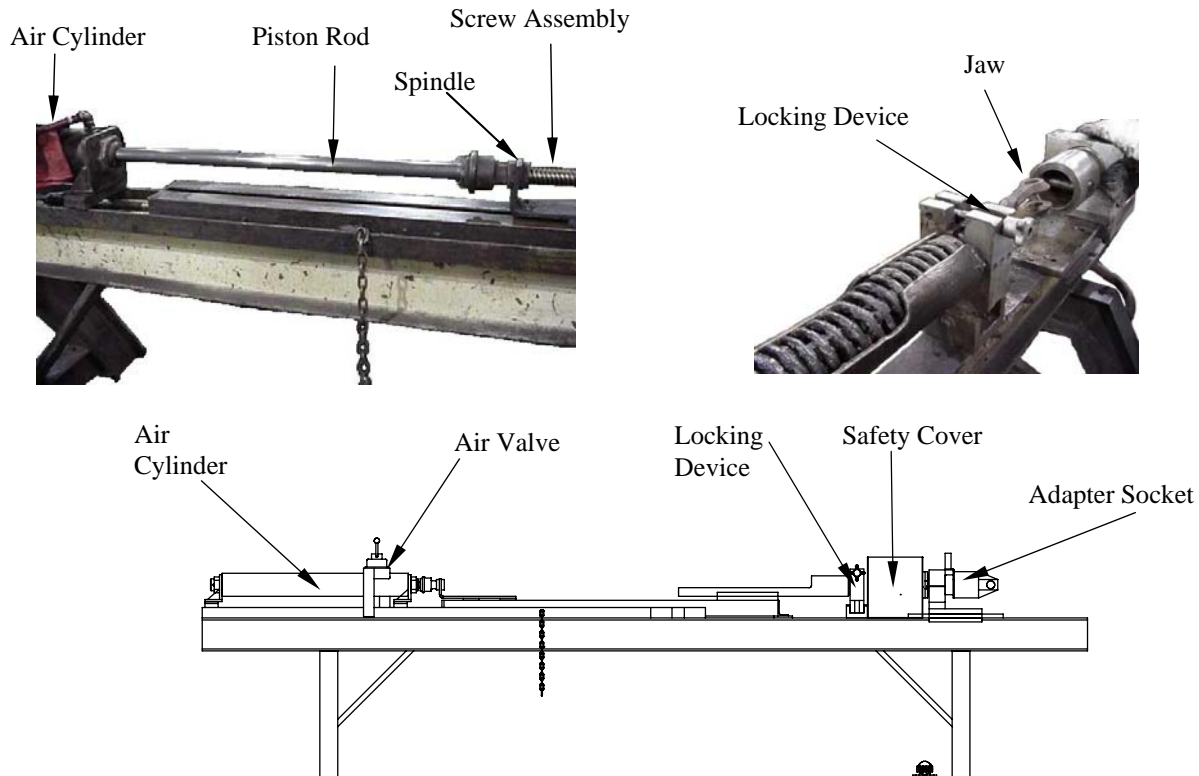


Figure 2: 2000-DJ Slack Adjuster Spring Removal Fixture

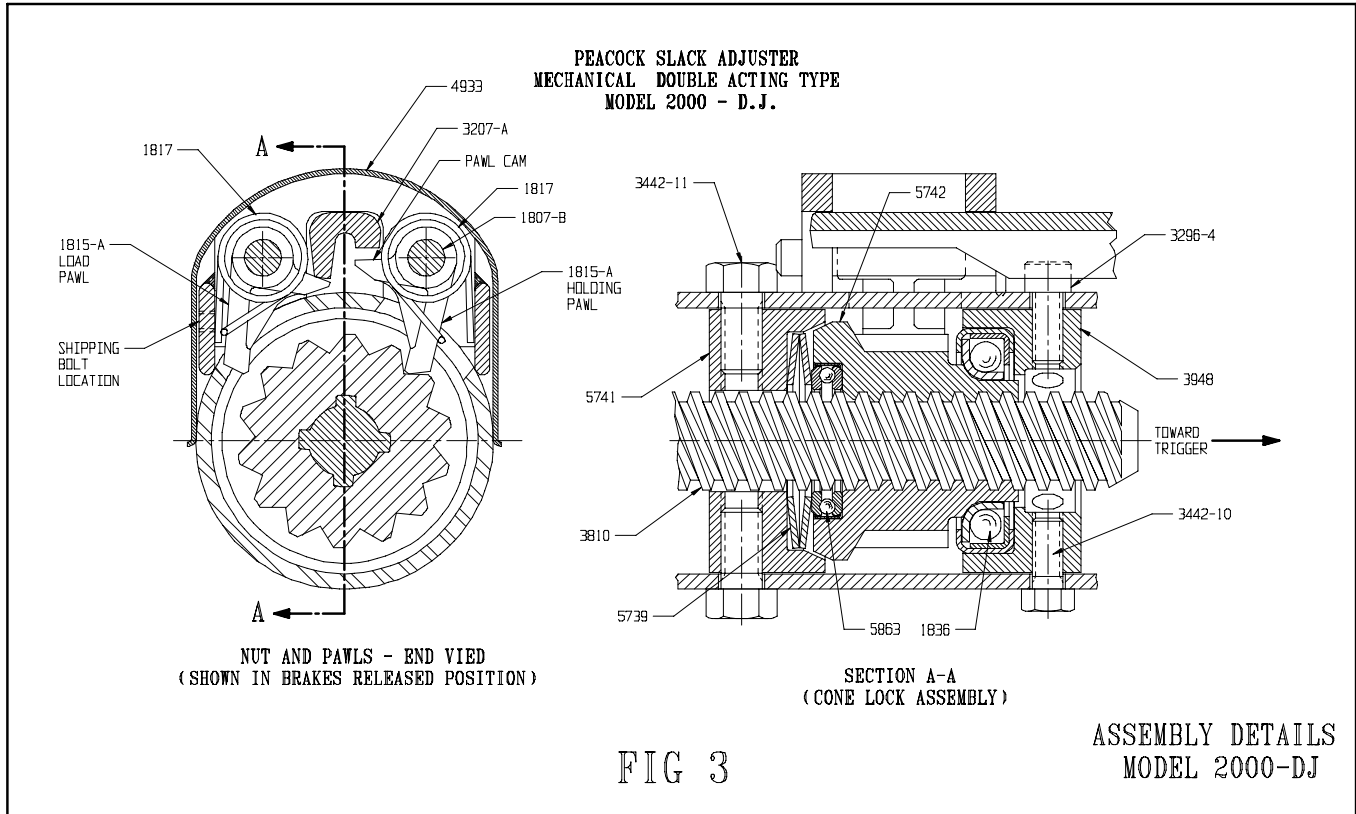
5.3 During disassembly process, make note of all “Warnings.”

6.0 DISASSEMBLY PROCEDURE

- 6.1 Place the slack adjuster in the disassembly fixture (Figure 1) with fixed jaw pinned to stationary eye. Fixed jaw will be on operator’s left, facing the fixture.
- 6.2 Remove the Shipping Bolt, Part No. 3442-27, if present.
- 6.3 Remove Part No. 4933 Housing Cover attached with four (4) Part No. 3978-1 Screws.
- 6.4 Inside are two (2) identical Part No. 1815-A Pawls (See Figure 3). One is engaged with Part No. 5742 Nut when brakes are set and is called a load pawl; the other is engaged when brakes are released and is called a holding pawl. Each pawl is activated by a Part No. 1817 Spring.



RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER



- 6.5 Looking into housing, the holding pawl is engaged with nut. The slack adjuster is in released position (Figure 3).
- 6.6 To shorten adjuster, slowly allow piston of operating cylinder to extend until adjuster housing begins to move and holding pawl disengages from nut. Using a small chisel or screwdriver, force pawl's cam downward and hold in this position. Release cylinder pressure, allowing housing to move over screw extension until extension is retracted into housing, and spacer is held tight between Part No. 3443-2 Nut and Part No. 3888 Retainer (Sheet 13). Release holding pawl allowing it to snap back against nut.
- 6.7 Remove two (2) Trigger Screws, Part No. 3442-2 (old units have three screws), Trigger, Part No. 3895, Retainer, Part No. 3452, and Trigger Cap, Part No. 4794.
- 6.8 Remove two (2) Part No. 3219 Camming Bar Screws, Part No. 1916-A Retainer, and slide Part No. 3207-A Camming Bar out of housing. Remove two (2) Part No. 3296-4 Socket Head Cap Screws and withdraw two (2) Part No. 1807-B Pawl Shafts. Lift out two (2) Part No. 1815-A Pawls and two (2) Part No. 1817 Springs. (See Figure 3 and Sheet 13)

RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

- 6.9 Remove six (6) Part No. 3442-11 Screws (earlier models use 4), four (4) Part No. 3442-12 Retainer Screws and two (2) Part No. 7165 Retainers.
- 6.10 Pull Part No. 3810 Screw Assembly, with load springs attached, out of housing. (See Figure 3 and Sheet 13.) Cone lock components, including Part No. 5741 Retainer, two (2) Part No. 5739 Spring Washer, Part No. 5863 Bearing, Part No. 5742 Nut, Part No. 4183 Jaw and Part No. 3443-2 Nut should come out with the screw assembly. However, Part No. 5741 Rear Bearing Collar may be wedged by distortion of housing at bolt holes. In this case, try to free this part by removing two (2) Part No. 3442-10 Screws allowing tension in Part No. 7191 Actuator Spring to free these parts. Slide Part No. 3860 Actuator with Part No. 7191 Actuator Spring out of open end of housing.
- 6.11 Remove cone lock parts and Part No. 1836 Bearing, Part No. 3948 Front Bearing Collar with Part No. 3947 Screw cover. This completes the disassembly of housing assembly.

WARNING: DEPENDING ON HOW TIGHT BEARING COLLARS ARE IN HOUSING, RELEASE OF ACTUATOR SPRING TENSION MAY PROPEL PARTS THROUGH OPEN END OF HOUSING.

7.0 DISASSEMBLY OF SCREW SUB –ASSEMBLY

- 7.1 Place sub-assembly into spring removal fixture (see Figure 2) Part No. 4183 Loose Jaw, to operator’s right when facing fixture. Activate air cylinder piston rod to contact end of Part No. 3810 Screw Assembly. Align end of screw with hole in spindle.

Note: Cylinder piston rod will be stopped automatically when sufficient resistance is met.
- 7.2 Secure screw assembly hex with fixture locking device. Close safety cover.
- 7.3 Remove Part No. 4183 Jaw from screw assembly. Remove Part No. 3443-2 Jam Nut.
- 7.4 Open safety cover; unlock hex locking device.
- 7.5 Release air pressure from air cylinder piston rod and remove screw assembly, Part Nos. 1945 Outer Load Spring, and 1955 Inner Load Spring, 7076 Spring Positioner and 3888 Retainer from fixture. Fixture is ready for next unit. Discard springs.

8.0 CLEANING

- 8.1 All of the following parts will be saved and cleaned:
 - 8.1.1 (1) – Part No. 3780 Housing Assembly
 - 8.1.2 (1) – Part No. 3810 Screw Assembly

RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

- 8.1.3 (1) – Part No. 3860 Actuator Assembly
- 8.1.4 (2) – Part No. 1807-B Pawl Shaft
- 8.1.5 (1) – Part No. 4183 Jaw
- 8.1.6 (1) – Part No. 4933 Cover
- 8.1.7 (1) – Part No. 3895 Trigger (If Trigger has 3 holes, the old trigger will be scrapped)
- 8.1.8 (1) – Part No. 3947 Screw Cover
- 8.1.9 (1) – Part No. 7076 Spring Positioner
- 8.1.10 (1) – Part No. 3948 Bearing Collar – Front
- 8.1.11 (1) – Part No. 5741 Bearing Collar - Rear

8.2 All components are to be cleaned to remove dirt, grease, and excess rust.

Note: Follow all applicable manufacturer’s recommendations and safety precautions while cleaning component parts.

9.0 INSPECTION OF PARTS

9.1 Parts previously mentioned to be saved should be separated, labeled, and visually inspected under normal Quality Assurance procedures. All parts that meet the following acceptance criteria will be utilized in the remanufacture of all Model 2000 series Slack Adjusters only.

9.2 The following parts saved will be inspected to the following criteria:

9.2.1 Housing Assembly – Part No. 3780

- 9.2.1.1 Inspect the pawl box area for excessive wear.
- 9.2.1.2 The maximum diameter allowed on the fixed Jaw hole is 1.313 inches.
- 9.2.1.3 Housing must be upgraded to the latest revision, if required (see Section 18.0).

9.2.2 Jaw - Part No. 4183

- 9.2.2.1 Maximum diameter allowed on the hole is 1.313 inches.

9.2.3 Screw Assembly - Part No. 3810

- 9.2.3.1 Hex section, minimum measurement, across the flats, 1.060 inches.

9.3 Any deviations to the parts listed above will be considered scrap; new parts will be required.

RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

10.0 REPLACEMENT OF PARTS

10.1 All of the following parts will be scrapped (if present) and new parts will need to be ordered. These parts are included in Reclamation Kit KT220.

10.1.1	(1) – Part No. 3443-2	Nut
10.1.2	(1) – Part No. 1945	Load Spring - Outer
10.1.3	(1) – Part No. 1955	Load Spring - Inner
10.1.4	(2) – Part No. 7165	Retainer
10.1.5	(4) – Part No. 3442-12	Screw
10.1.6	(2) – Part No. 1817	Pawl Spring
10.1.7	(2) – Part No. 1815-A	Load and Holding Pawl
10.1.8	(6) – Part No. 3442-11	Screw
10.1.9	(2) – Part No. 3296-4	Screw
10.1.10	(4) – Part No. 3978-1	Screw
10.1.11	(2) – Part No. 5739	Spring Washer
10.1.12	(1) – Part No. 5863	Bearing
10.1.13	(1) – Part No. 1836	Bearing
10.1.14	(1) – Part No. 7191	Spring
10.1.15	(1) – Part No. 1916-A	Retainer
10.1.16	(1) – Part No. 3207-A	Camming Bar
10.1.17	(2) – Part No. 3219	Screw
10.1.18	(2) – Part No. 3442-2	Screw
10.1.19	(1) – Part No. 3452	Retainer
10.1.20	(2) – Part No. 3442-10	Screw
10.1.21	(1) – Part No. 5742	Nut
10.1.22	(1) – Part No. 4794	Trigger Cap
10.1.23	(1) – Part No. 3888	Retainer
10.1.24	(1) – Part No. 3442-27	Screw
10.1.25	(1) – Part No. 3896	Control Rod
10.1.26	(1) – Part No. 3897	Control Rod Collar
10.1.27	(1) – Part No. 3977-1	Set Screw
10.1.28	(1) – Part No. 5584-DJRT	Warning Sticker
10.1.29	(1) – Part No. 4001	Warning Tag

11.0 REASSEMBLY PROCEDURE

11.1 Reassembling Slack Adjuster:

- 11.1.1** Lubricate entire inner surface of Part No. 3780 Housing with AAR approved slack adjuster grease.
- 11.1.2** Grease lightly entire outer surface of Part No. 3860 Actuator, and slide end with three (3) threaded holes first, through entire length of Part No. 3780

RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

Housing. The threaded holes are to be aligned with the opening in the housing for the trigger.

11.1.3 If outside of housing is bare in trigger area, apply a coating of paint primer to help prevent rusting.

11.1.4 Attach Part No. 3895 Trigger with Part No. 4794 Trigger Cap to Part No. 3860 Actuator with two (2) Part No. 3442-2 Screws and Part No. 3452 Retainer. Bend corners of retainer against screw heads. Trigger cap should be loose fitting.

IMPORTANT: ACTUATOR MUST MOVE FREELY AFTER SCREWS ARE TIGHTENED.

11.1.5 Insert Part No. 3947 Screw Cover into Part No. 3948 Front Bearing Collar.

11.1.6 Pack Part No. 1836 Bearing with grease and insert (flat side down) in Part No. 3948 Front Bearing Collar.

Note: Part No. 1836 Bearing's inner race is contoured to match Part No. 5742 Nut. Bearing must be installed properly for all parts to fit. Place Part No. 7191 Spring over Part No. 3947 Screw Cover and slide into housing.

11.1.7 Using fixture shown on Figure 1, compress actuator spring until holes in Part No. 3948 Front Bearing Collar are in line with those in housing, and attach collar with two (2) Part No. 3442-10 Screws. The two (2) Part No. 3296-4 Screws used on portion of housing that is under the cover should not be installed at this time.

Note: Check operation of Actuator by pulling back on Trigger and releasing. It MUST return freely.

11.2 Load Springs Assembly:

Install on Part No. 3810 Screw Assembly in following order (Sheet 13):

11.2.1 Part No. 1955 Inner Load Spring, Part No. 7076 Spring Positioner, Part No. 1945 Outer Load Spring, and Part No. 3888 Retainer using fixture shown on Figure 2. Restrain springs on screw assembly using Part No. 3443-2 Nut. Attach Part No. 4183 Jaw.

RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

11.3 Screw and Cone Lock Components (See Figure 3):

11.3.1 Apply light coating of grease to threaded portion of Part No. 3810 Screw Assembly; and pack Part No. 5863 Bearing with same grease. With screw end held upright, place on Part No. 5741 Rear Bearing Collar (flat side first), two (2) Part No. 5739 Spring Washers (**POSITIONED SO OUTER EDGES CONTACT EACH OTHER**), Part No. 5863 Bearing and Part No. 5742 Nut (tapered side first). Unit is now ready for assembly into housing.

11.4 Housing Assembly:

11.4.1 Slide screw assembly with cone lock components into housing, aligning holes in Part No. 5741 Bearing Collar with those in housing.

11.4.2 Attach Part No. 5741 Bearing Collar – Rear with six (6) Part No. 3442-11 Screws.

11.4.3 Attach Part No. 3888 Retainer with four (4) Part No. 3442-12 Screws and two (2) Part No. 7165 Retainers. Bend corners of retainers against screw heads.

11.5 Pawl Assembly (See Figure 3):

11.5.1 Place Part No. 1817 Pawl Spring over each of the two (2) Part No. 1815-A Pawls and install in housing.

11.5.2 Grease and insert Part No. 1807-B Pawl Shafts and hold in place by installing two (2) Part No. 3296-4 Screws.

Note: Check for free movement of each pawl by pressing down on pawl's cam. Liberally grease cam surfaces.

11.5.3 Apply coating of grease to Part No. 3207-A Camming Bar and attach to Part No. 3860 Actuator with two (2) Part No. 3219 Screws using Part No. 1916-A Retainer. Bend corners of retainer against screw heads.

RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

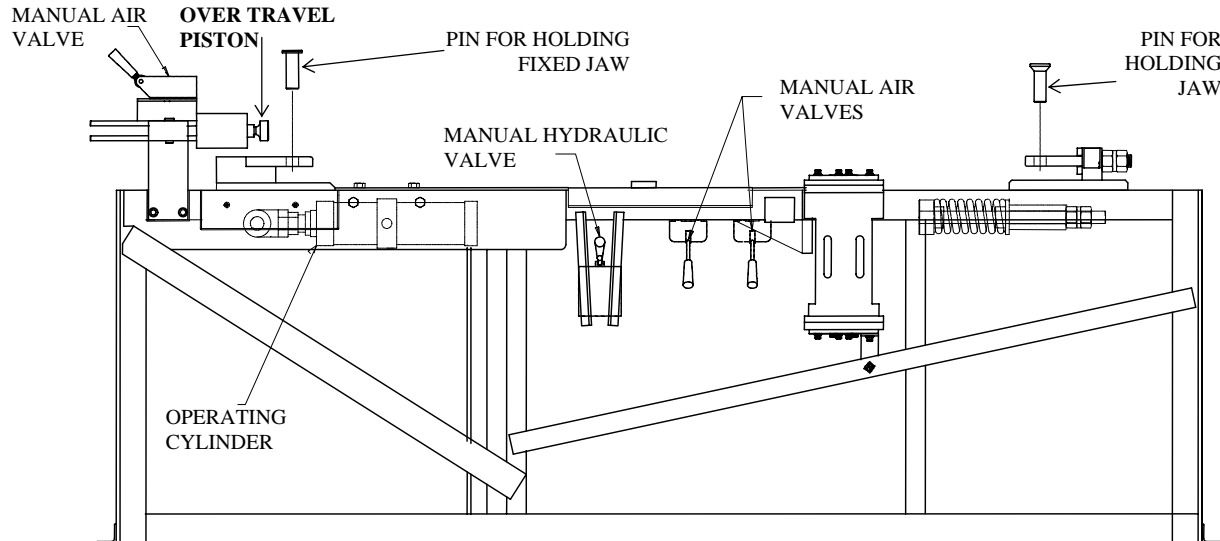


Figure 4: 2000-DJ Slack Adjuster Test Fixture

12.0 TESTING

- 12.1 Place slack adjuster in the test fixture (See Figure 4).
- 12.2 Extend operating cylinder slowly. As housing moves, observe that holding pawl ratchets over nut teeth. When trigger contacts over travel piston, holding pawl will disengage from nut and load pawl will engage with it.

Note: Screw extension at this time should be about 16 inches. If extension is more than this, move over travel piston closer to trigger; if extension is less, move over travel piston away from trigger.

- 12.1 Release and apply operating cylinder several times to check operation of pawls. Holding pawl must engage nut when trigger loses contact with over travel piston. Screw extension should be slightly less than when load pawl is engaged.

13.0 FINAL ASSEMBLY

- 13.1 When operation is satisfactory, place Part No. 4933 Cover on housing, and attach with four (4) Part No. 3978-1 Screws.
- 13.2 With cylinder still applied, install Part No. 3442-27 Shipping Bolt, a ¼-inch-20 x ¾-inch Grade 5 Bolt through threaded hole in housing in line with load pawl. Make sure bolt is completely screwed in.

Note: This screw will keep load pawl engaged with nut when cylinder is released, holding adjuster in proper position for installing on car.

RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

13.3 Release cylinder, and attach Part No. 4001 **YELLOW** Warning Tag by winding the wire under the head of the shipping bolt. This tag states that bolt should be removed only after installation is complete and while the brakes are set.

13.4 Tighten Part No. 3443-2 Nut, making sure that Part No. 4183 Jaw is tightened and aligned with housing jaw.

14.0 MARKING

14.1 Stamp body of slack adjuster as required in AAR Specifications S-423, latest revision.

15.0 PAINTING

15.1 All slack adjusters shall be painted with a self-adhering primer, prior to shipment.

16.0 SHIPPING

16.1 The following parts will be shipped loose with the slack adjuster:

16.1.2 Part No. 3896 Control Rod

16.1.3 Part No. 3897 Control Rod Collar

16.1.4 Part No. 3977-1 Set Screw

17.0 REPLACING OLDER MODEL SLACK ADJUSTERS

17.1 Model 2000-DJ Slack Adjuster can be used as a replacement in an existing Model 2000 installation by removing Part No. 4183, Jaw, and using existing Part No. 3891, Welding Tail. It can also be used in a Model 1340 or Model 1480 installation by replacing its Part No. 3895, Trigger, with a Part No 3431, Trigger, and its Part No. 4183, Jaw, with a Part No. 3997, Coupling. When these changes are made, adjuster is called Model 2000-R.

18.0 HISTORY OF DESIGN CHANGES

18.1 Part No. 5863, Bearing, has been supplied as a three (3) piece assembly, a ball retainer between two (2) flat washers. It is interchangeable with the banded bearing assembly currently used.

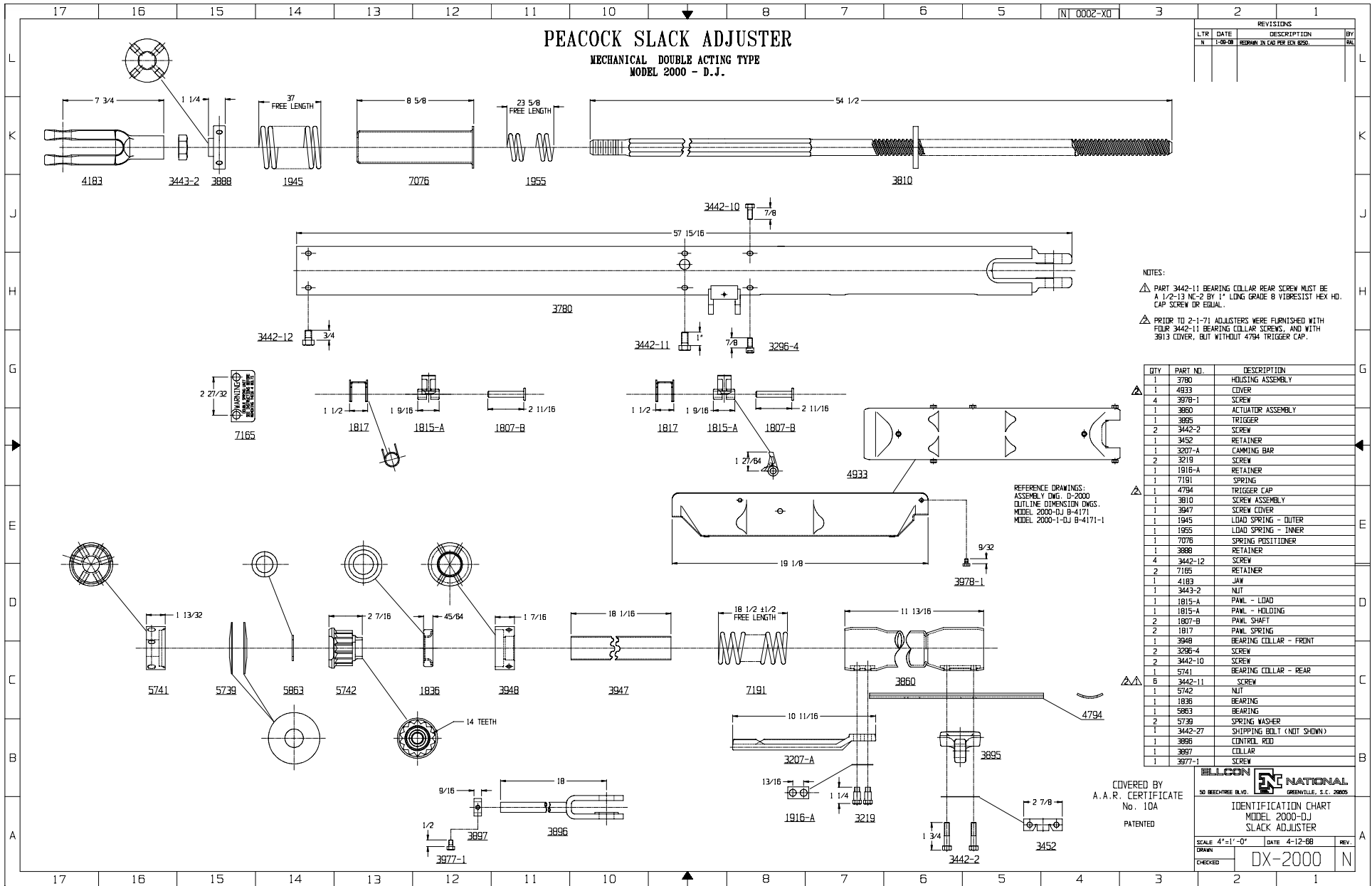
18.2 Slack adjusters made before September 1970 used four (4) Part No. 3442-11 Screws to attach rear bearing collar. To upgrade to current design using six (6) screws requires two (2) additional 9/16-inch holes in housing.

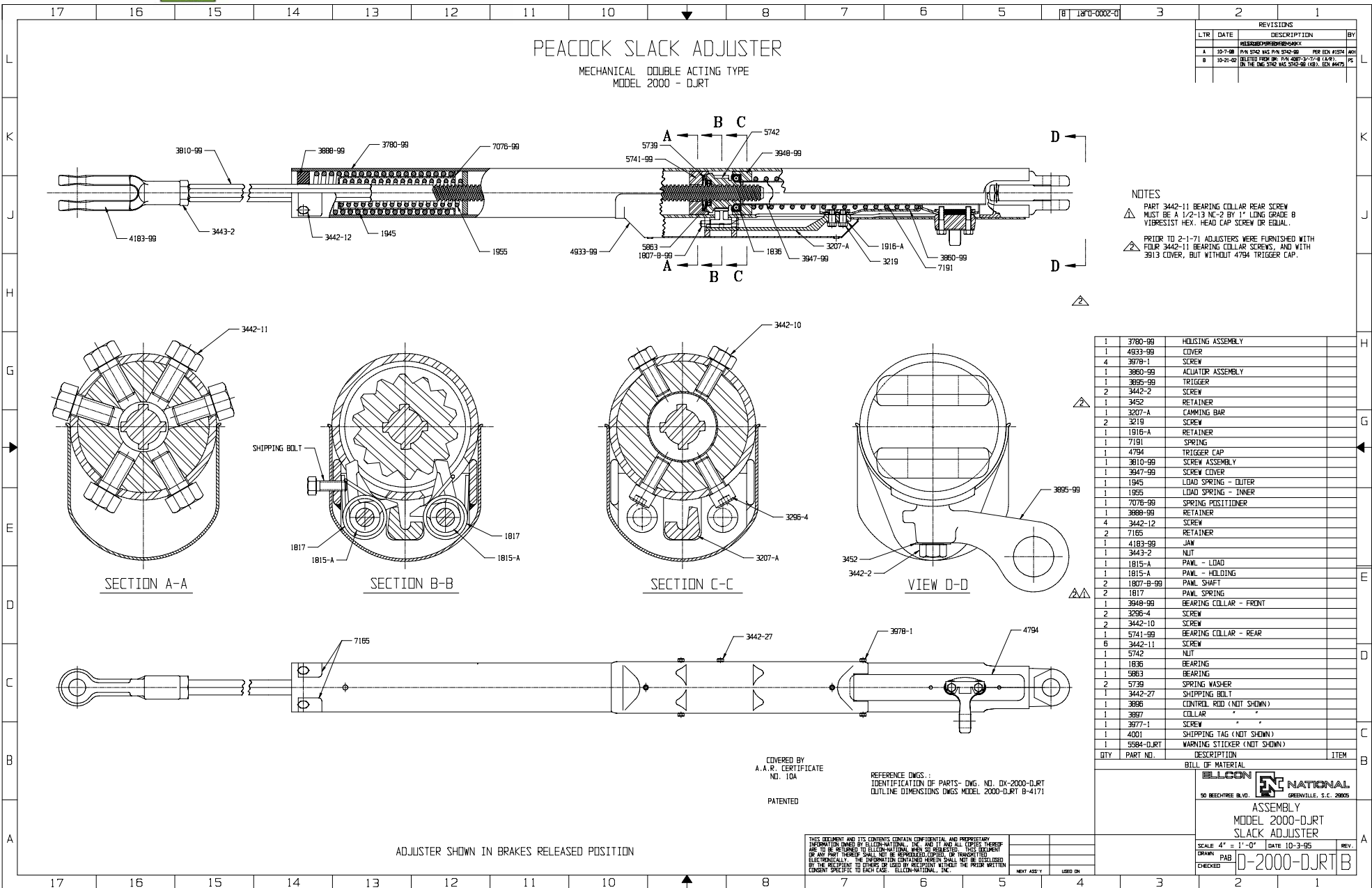
RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

- 18.3** Slack adjusters made before February 1971 did not have a Part No. 4794 Trigger Cap. Housing Cover was Part No. 3913 and was attached with three (3) Part No. 3978-1 Screws. Upgrade to latest drawing using Service Bulletin No. 7202 (Sheet 15).
- 18.4** Slack adjusters made before March 1972 used a Part No. 1942 Actuator Spring. Part No. 7191 Actuator Spring should be used as a replacement.
- 18.5** Slack adjusters made before April 1972 used Part No. 1815 Pawls (forged steel). These pawls must be replaced with Part No. 1815-A Pawls (manganese bronze).
- 18.6** Slack adjusters made from April 1972 through April 1974 used a Part No. 3207-B Camming Bar with pawl assist ramp.
- 18.7** Slack adjusters made before May 1974 used a Part No. 3852 Nut with a Part No. 1836 Bearing on each side with two (2) Part No. 1825 Spring Washers and a Part No. 3907 Rear Bearing Collar in place of the cone lock parts now used. To upgrade to current design, see Service Bulletin No. 7505 (Sheet 16).
- 18.8** Slack adjusters made before 1978 used only Part No. 1945 Outer Load Spring. To upgrade to current design, see Service Bulletin No. 7905 (Sheet 17).
- 18.9** Slack adjusters made from March 1972 through 1977 used Part No. 1924 Actuator Spring. From 1978 through 1980, both Part Nos. 1924 and 7191 Actuator Springs were used.



PEACOCK SLACK ADJUSTER
MECHANICAL DOUBLE ACTING TYPE
MODEL 2000 - D.J.





PEACOCK SLACK ADJUSTER
 MECHANICAL DOUBLE ACTING TYPE
 MODEL 2000 - DJRT

REVISIONS			
LTR	DATE	DESCRIPTION	BY
A	10-7-00	PER DWG NO. P/N 5242-00 PER REV. #1504 AND	
B	10-25-00	REVISED FROM P/N 4933-99 TO P/N 4933-00 IN THE ENG. 5242 WAS 5242-00 (REV. 1504) MATS	PS

- NOTES**
- △ PART 3442-11 BEARING COLLAR REAR SCREW MUST BE A 1/2-13 NC-2 BY 1" LEAD GRADE 8 VIBRESIST HEX. HEAD CAP SCREW OR EQUAL.
 - △ PRIOR TO 2-1-71 ADJUSTERS WERE FURNISHED WITH FOUR 3442-11 BEARING COLLAR SCREWS, AND WITH 3913 COVER, BUT WITHOUT 4794 TRIGGER CAP.

QTY	PART NO.	DESCRIPTION	ITEM
1	3780-99	HOUSING ASSEMBLY	
1	4933-99	COVER	
4	3978-1	SCREW	
1	3860-99	ACTUATOR ASSEMBLY	
1	3895-99	TRIGGER	
2	3442-2	SCREW	
1	3452	RETAINER	
1	3207-A	CAMMING BAR	
2	3219	SCREW	
1	1916-A	RETAINER	
1	7191	SPRING	
1	4794	TRIGGER CAP	
1	3810-99	SCREW ASSEMBLY	
1	3947-99	SCREW COVER	
1	1945	LOAD SPRING - OUTER	
1	1955	LOAD SPRING - INNER	
1	7076-99	SPRING POSITIONER	
1	3880-99	RETAINER	
4	3442-12	SCREW	
2	7165	RETAINER	
1	4183-99	JAW	
1	3443-2	NUT	
1	1815-A	PAWL - LOAD	
1	1815-A	PAWL - HOLDING	
2	1807-B-99	PAWL SHAFT	
2	1817	PAWL SPRING	
1	3949-99	BEARING COLLAR - FRONT	
2	3296-4	SCREW	
2	3442-10	SCREW	
1	5741-99	BEARING COLLAR - REAR	
6	3442-11	SCREW	
1	5742	NUT	
1	1836	BEARING	
1	5863	BEARING	
2	5739	SPRING WASHER	
1	3442-27	SHIPPING BOLT	
1	3896	CONTROL ROD (NOT SHOWN)	
1	3897	COLLAR	
1	3977-1	SCREW	
1	4001	SHIPPING TAG (NOT SHOWN)	
1	5584-DJRT	WARNING STICKER (NOT SHOWN)	
		DESCRIPTION	ITEM

COVERED BY
 A. A. R. CERTIFICATE
 NO. 10A

REFERENCE DWGS.:
 IDENTIFICATION OF PARTS- DWG. NO. DX-2000-DJRT
 OUTLINE DIMENSIONS DWGS MODEL 2000-DJRT B-4171

THIS DOCUMENT AND ITS CONTENTS CONTAIN CONFIDENTIAL AND PROPRIETARY INFORMATION OWNED BY ELLCON-NATIONAL, INC. AND IT AND ALL COPIES THEREOF ARE TO BE RETURNED TO ELLCON-NATIONAL, INC. UPON REQUEST. THIS DOCUMENT OR ANY PART THEREOF SHALL NOT BE REPRODUCED, COPIED, OR TRANSMITTED ELECTRONICALLY. THE INFORMATION CONTAINED HEREIN SHALL NOT BE DISCLOSED BY THE RECEIPTOR TO EMPLOYEES OR USED BY THE RECEIPTOR WITHOUT THE PRIOR WRITTEN CONSENT SPECIFIC TO EACH CASE. ELLCON-NATIONAL, INC.

ELLCON NATIONAL
 50 BEECHCREK BLVD.
 GREENVILLE, S.C. 29605

ASSEMBLY MODEL 2000-DJRT SLACK ADJUSTER

SCALE 4" = 1'-0" DATE 10-3-95 REV.
 DRAWN PAB
 CHECKED D-2000-DJRT

ADJUSTER SHOWN IN BRAKES RELEASED POSITION

RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

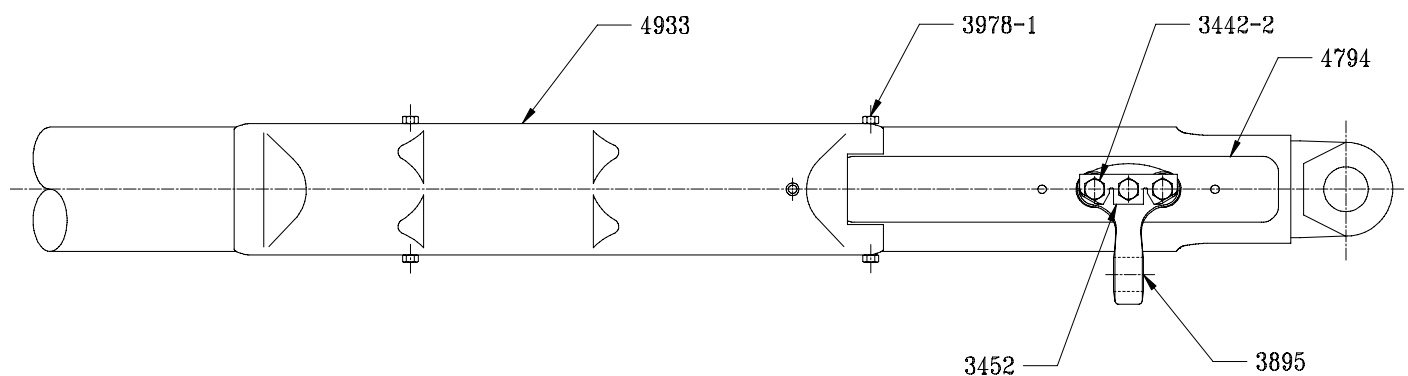
SERVICE BULLETIN NO. 7202

**HOUSING COVER REPLACEMENT INSTRUCTIONS
 FOR
 PEACOCK MODEL 2000 & 2000-DJ SLACK ADJUSTERS**

TO REDUCE THE POSSIBILITY OF FOREIGN MATTER ENTERING THE SLACK ADJUSTER AT THE TRIGGER OPENING, CURRENT UNITS ARE FURNISHED WITH A NO. 4794 ACTUATOR TRIGGER CAP AND A NO. 4933 HOUSING COVER. TO ADD THE TRIGGER CAP TO OLDER UNITS, PROCEED AS FOLLOWS:

1. REMOVE EXISTING NO. 3913 HOUSING COVER, WHICH IS ATTACHED WITH THREE NO. 3978-1 SCREWS.
2. APPLY NEW STYLE NO. 4933 COVER WITH OPEN END TOWARD TRIGGER. INSERT TWO NO. 3978-1 SCREWS (1/4"-20 X 9/32") INTO EXISTING HOLES.
3. DRILL TWO 7/32" HOLES INTO HOUSING AT OTHER END OF COVER, USING COVER AS TEMPLATE. **SLACK ADJUSTER SHOULD BE DISASSEMBLED, AS ALL DRILLING CHIPS AND BURRS MUST BE REMOVED FROM INSIDE OF HOUSING.** SEE INSTRUCTION MANUAL FOR DISASSEMBLY PROCEDURE.
4. INSERT TWO NO. 3978-1 SCREWS INTO HOLES. DO NOT THREAD HOLES AS SCREWS ARE SELF-TAPPING.
5. REMOVE NO. 3895 TRIGGER, WHICH IS ATTACHED WITH THREE NO. 3442-2 SCREWS AND A NO. 3452 SCREW RETAINER.
6. REMOVE DIRT AND LOOSE PAINT FROM TOP OF HOUSING IN AREA COVERED BY NO. 4794 TRIGGER CAP. PRIME THIS SURFACE WITH PAINT PRIMER AND ALLOW TO DRY BEFORE APPLYING TRIGGER AND TRIGGER CAP.
7. SLIDE NO. 4794 ACTUATOR TRIGGER CAP, LONG END FIRST, INTO SLOT IN COVER.
8. INSERT TRIGGER IN ORIGINAL POSITION THROUGH OPENING IN TRIGGER CAP AND ATTACH WITH SAME SCREWS AND SCREW RETAINER. BEND CORNERS OF RETAINER AGAINST SCREW HEADS.

NOTE: TRIGGER CAP MUST BE ABLE TO MOVE FREELY INTO AND OUT OF COVER WITHOUT BINDING, WHEN BRAKES ARE SET AND RELEASED, AND TO MOVE Laterally BY HAND WHEN BRAKES ARE RELEASED.



RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

SERVICE BULLETIN NO. 7505

UPGRADING OF MODEL NOS. 2000 & 2000-DJ SLACK ADJUSTERS

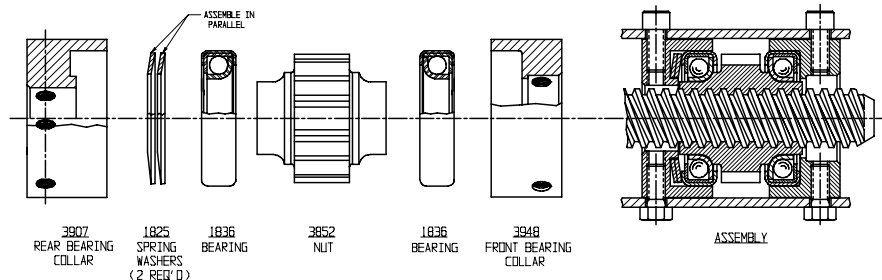
SUPERCEDES SERVICE BULLETIN NO. 7203

When a Model 2000 or 2000-DJ Slack Adjuster is to be repaired, the new Cone Lock Assembly should be applied in place of the Old Style Assembly, as shown in exploded view below.

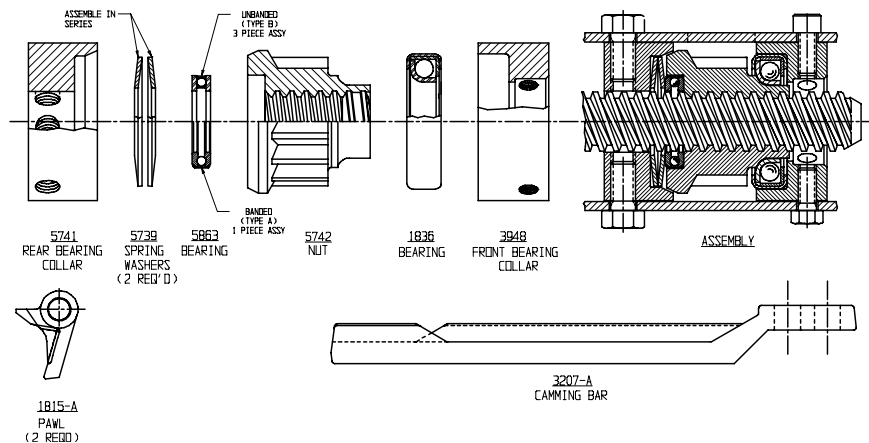
For dismantling and assembly instructions of slack adjusters, refer to Instruction Manual. **Replace obsolete parts** as outlined below.

1. Part No. 5741 Rear Bearing Collar replaces Part No. 3907 Rear Bearing Collar.
2. Two Part No. 5739 Spring Washers replace two Part No. 1825 Spring Washers. These springs must be assembled in series as shown.
3. Part No. 5863 Bearing (this bearing can be made up of a one-piece or three-piece assembly) replaces Part No. 1836 Bearing and seats in nut cavity.
4. Part No. 5742 Nut replaces Part No. 3852 Nut.
5. Part No. 3948 Front Bearing Collar and Part No. 1836 Front Bearing remain as part of Cone Lock Assembly.
6. Part No. 3207-A Camming Bar and two Part No. 1815-A Pawls replace the existing camming bar and pawls.
7. All replaced parts should be returned to Ellcon in exchange for the cone lock parts.
8. After unit is assembled and tested, it must be stamped in accordance with AAR requirements with the letter "C" added for cone lock and the housing cover painted black.

OLD STYLE ASSEMBLY



NEW STYLE CONE LOCK ASSEMBLY



RECLAMATION MANUAL FOR MODEL 2000 SLACK ADJUSTER

SERVICE BULLETIN NO. 7905
LOAD SPRING ASEMBLY FOR
PEACOCK MODEL 2000 & 2000-DJ SLACK ADJUSTER

THE AAR REQUIRES THAT ALL NEW SLACK ADJUSTERS BUILT AFTER JANUARY 1, 1978 MUST HAVE A MINIMUM LET-OUT FORCE OF 500 POUNDS AT 17 INCHES OF TAKE-UP PER PARAGRAPH 3.12 OF MANUAL PAGE E-268-1978.

TO COMPLY WITH THIS REQUIREMENT, ELLCON-NATIONAL HAS ADDED THE NO. 1955 INNER LOAD SPRING AND NO. 7076 SPRING POSITIONER, WHILE STILL MAINTAINING THE NO. 1945 OUTER LOAD SPRING.

THE NO. 1955 INNER LOAD SPRING AND NO. 7076 SPRING POSITIONER CAN BE INSTALLED IN ALL MODEL 2000 AND 2000-DJ SLACK ADJUSTERS BUILT PRIOR TO JANUARY 1, 1978 WHEN THEY ARE BEING REPAIRED OR UPGRADED. THE ONLY CHANGE IN ASSEMBLY WHEN INSTALLING THE NEW PARTS IS THAT THE NO. 3888 SPRING RETAINER MUST BE REVERSED WITH THE EXTENDED SIDE FACING AWAY FROM THE SPRINGS, AS SHOWN IN THE DIAGRAM, TO INSURE 19 INCHES TAKE-UP CAPACITY.

THE WARNING TAG, PART NO. 1611-B, IS ALSO REPLACED BY WARNING TAG, PART NO. 7165.

