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www.linamar.com

September 14, 2005

Re: Inaccurate SJM 3219 Safety Alerts & Skyjack Service Bulletins 60 and 77

To Whom It May Concern:

Skyjack has recently learned that a number of alerts, bulletins and notifications, both formal and informal, relating to Skyjack model SJM 3219 scissor lifts have been generated and widely disseminated by various entities and organizations, all external to Skyjack. More specifically, it has been reported, in some cases, that all Skyjack model 3219 lifts, regardless of the series, date of manufacture or site of manufacture, are potentially subject to structural failure. Be advised that many of the facts underlying the referenced communications are inaccurate or have been otherwise misreported. Further, the contents, significance and import of these alerts have been clearly misinterpreted or misrepresented by some of the recipients of the communications during different stages of dissemination. This letter is intended to provide accurate and timely information regarding Skyjack SJM 3219 lifts, as well as other Skyjack products, and to ensure that Skyjack equipment is always being operated and maintained in accordance with our stringent standards.

Specifically, Skyjack has received information and documentation that a safety alert referencing a Skyjack SJM 3219 structural failure, reportedly resulting in both a fatality and a critical injury, has been widely circulated. The original alert was published as an internal document for a large construction contractor. Apparently, that internal communication was then made available to the general public by some unidentified person within that organization. Skyjack was not consulted prior to either the publication of the internal document or the public issuance of the referenced alert. Our subsequent, extensive investigation into the genesis of, as well as the factual basis for, the alert has revealed that the cited incident in no way involved nor related to a Skyjack scissor lift nor to any other Skyjack product. Any report suggesting otherwise is simply incorrect and without any factual basis. Skyjack has now determined that neither the originator of the subject safety alert nor the entities that have chosen to further publish its content, and thus perpetuate the dissemination of the incorrect and inaccurate information contained within the alert, made any attempt to first contact Skyjack, before their respective publications, in order to verify the accuracy of the statements, assertions and conclusions set forth within those communications.



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Further, the original alert appears to have been subsequently modified or altered, and exists in at least two different forms of which Skyjack is currently aware. The alert, whether the original or a modified version, has been distributed to and through safety, contractor, trade and insurance organizations. Attached to one version of the alert was a series of photographs, known to be from an unrelated incident, but which were represented as being part of the original alert and even including the originator's letterhead. Due to the highly prejudicial and extremely deleterious nature of the referenced publications, Skyjack has requested a retraction, correction or clarification from those persons and entities known to have disseminated this factually deficient, inaccurate misinformation.

In actuality, a limited, finite number of SJM 3219 scissor lifts, manufactured by Skyjack in the mid 1990s at one particular facility, were, and continue to be, subject to an extensive and aggressive identification and repair campaign, which was effectuated as Service Bulletins #60 and #77. The subject units were believed to be susceptible to structural failure, if not repaired in accordance with the applicable Skyjack Service Bulletins. Acting with an abundance of caution, and in an effort to ensure that any and all potentially deficient machines were promptly identified and repaired, Skyjack issued Bulletins #60 and #77(attached below), which included repair kits, to known owners of all SJM 3219 scissor lifts ever manufactured, whether or not a particular lift was in the group of lifts identified as potentially defective. Skyjack also included in these campaigns the first 30 model SJIII 3219 units, the next generation lift, even though those lifts were not within the set of machines identified as potentially defective.

Over the last several years, Skyjack has learned of several failures in the scissors stacks of SJM 3219 lifts, all manufactured prior to March 1998. Contrary to assertions made in the alerts discussed above, reported failures typically occur, in whole or in part, because the safety related Service Bulletins, including repair kits, that had been published and forwarded to all known equipment owners were not heeded and simple upgrades not implemented. The referenced incidents might also have been avoided through daily operator inspections or industry standard periodic maintenance.

Service Bulletins #60 and #77 require the welding of reinforcement plates on the scissor arms. The work will be performed at the expense of Skyjack. The Bulletins were first issued in March of 1998 and July of 2000, respectively. Skyjack continues to be very aggressive in its attempts to identify and effectuate the repair of any potentially deficient SJM 3219 lifts. Despite its best efforts, Skyjack is aware that a limited number of the subject lifts have not yet been subjected to the requisites of Bulletins #60 and #77. As ownership changes and Skyjack is made aware of equipment transfers and exchanges, it attempts to contact those owners and communicate the need to remove from service any SJM 3219 that has not been repaired as required by Bulletins #60 and #77. Unfortunately, in some instances, we either cannot identify the current owners, or, in many cases, the owners have chosen to ignore the Bulletins and to forego necessary repairs, despite Skyjack's repeated warnings.



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The recent safety alerts, published by entities other than Skyjack and addressed above, are potentially, if at all, only those SJM 3219 lifts manufactured prior to March 1998 and not any other Skyjack product, including SJIII 3219 lifts. Only the model SJM 3219 lifts delineated above are potentially susceptible to the noted structural deficiency, and, even then, only when Service Bulletins #60 and #77 have not been completed.

Please note that Skyjack does retain records of all the Service Bulletins that have been completed and reported to it. If you own, rent or lease any Skyjack lift, you can quickly determine whether that particular lift requires any Service Bulletins to be completed by contacting the Skyjack Product Support department (1-800-275-9522) with the appropriate Serial Number(s).

If you have any questions or wish to further discuss the foregoing, please feel free to contact the undersigned.

Best Regards,

A handwritten signature in blue ink, appearing to read "BRAD BOEHLER", with a long horizontal line extending to the right.

Brad Boehler, P.Eng, *Director, Product Safety & Quality Assurance*
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Service Bulletin #60 SJM3219 Scissor Ends Inspection And Repair

March 9, 1998

Product Affected: SJM3219

SJM3219

221964 and below.

Introduction:

To ensure the safety of our customers and yours, we require that the following inspection and repair for SJM3219 machines listed above, be completed. Please follow the instructions included to complete this inspection and repair.

Items Required:

- P/N 310242 STRAP, SCISSOR WIDE, SJ QTY. 2
- P/N 310243 STRAP, SCISSOR NARROW, SJ QTY. 12
- Gray touch-up paint, qty.1

Procedure:

INSPECTION (SEE FIG. #1)

1. Raise the machine to approximately a platform height of six feet.
2. Set safety bar in place
3. Visually inspect for cracks on all male and female scissor end weldments. Special attention should be focused on the second and third inner level scissor end weldments, both ends and the tubes up to approximately one-inch from the weld. (Note: Level #1 is the bottom level)

SCISSOR END FOUND CRACKED AND SEPARATED

If the scissor ends have separation from the scissor tubes, immediately remove the unit from service and contact Skyjack Service at: (800) 275-9522 or (630) 262-0005. Please refer to Service Bulletin # 60 when calling.

SCISSOR ENDS FOUND CRACKED WITH NO SEPARATION

All weld repairs must be performed by a qualified welder, certified to weld 1/8" or thicker mild steel (up to 70,000 PSI yield strength) using the SMAW process in the overhead position. Qualifications in all positions is acceptable.



If welding in the vertical position, welding must be performed in the vertical up position.

1. Raise or lower the machine to an appropriate height.
2. Reset the safety bar. **(Note: If the safety bar cannot be used, support the platform with an overhead crane or use other means of support to prevent the scissor set form inadvertently lowering.)**
3. Grind out crack and blow out all weld debris.
4. Visually inspect the ground out area to assure the crack has been fully removed.
5. Re-weld the ground out crack using the vertical up position. For the female scissor ends, place weld on inside and up a minimum $\frac{3}{4}$ ". **(See Figure #3) (Note: This weld must fuse the end face of the scissor tube to the inside face of the female scissor.)**
6. Weld the STRAP, SCISSOR WIDE, SJ, P/N 310242, to the female scissor ends on inside level 3 **(See Figures #4 & #5)**
7. On the inside of all female scissor ends, except roller ends at the platform and base, weld a $\frac{1}{8}$ " fillet up on the inside of the female scissors a minimum of $\frac{3}{4}$ ". **(See Figure#3) (Note: This weld must fuse the end face of the scissor tube to the inside face of the female scissor.)**
8. On male scissor ends on inside levels 1, 2 and 3, and on outside levels 1, 2 and 3 install STRAP, SCISSOR NARROW SJ, P/N 310243 **(See Figures #4 & #5)**
9. Place a weld bead between the level 3 female ends and the upper cylinder box 1" long from the bottom of the scissor tube. This weld is designed to fill the groove formed by the original fillet welds on the female end and the cylinder box. **(See Figure #6)**
10. After weld has cooled, wire brush the re-welded areas and re-inspect for cracks. **Do not grind.**

ALL UNITS WITHOUT CRACKS

1. On the inside of all female scissor ends, except roller ends at the platform and base, weld a $\frac{1}{8}$ " fillet up on the inside of the females scissors a minimum of $\frac{3}{4}$ " **(See Figure #3) (Note: This weld must fuse the end face of the scissor tube to the inside face of the female scissor.)**
2. Weld the STRAP SCISSOR WIDE, SJ, P/N 310242, to the female scissor ends on inside level 3. **(See Figures #4 & #5)**
3. On male scissor ends on inside levels 1, 2 and 3, and on outside levels 1,2 and 3, install STRAP SCISSOR NARROW, SJ, P/N 310243. **(See Figures #4 & #5)**
4. Place a weld bead between the level 3 female ends and the upper cylinder box 1" long from the bottom of the scissor tube. This weld is designed to fill the groove formed by the original fillet welds on the female end and the cylinder box. **(See Figure #6)**
5. After weld has cooled, wire brush the re-welded areas and re-inspect for cracks. **Do not grind.**

PAINT

1. Remove all weld splatter from the affected area. **DO NOT GRIND THE WELDS.**
2. Paint the repaired area with gray touch-up paint provided by Skyjack.



FINAL INSPECTION

1. Completely lower the machine.
2. Connect pressure gauge to the lift hose and set lift pressure to the pressure stated on the unit's identification plate.
3. Ensure unit lifts 500 lbs. And no more.
4. Cycle the unit to ensure smooth operation and re-inspect scissor ends for any cracking.
(See Figures #1 & #2)

Parts and Warranty Policy:

Upon completion, send in a warranty claim form for each machine, stating that Service Bulletin #60 has been completed.

The warranty claim form should include the following information.

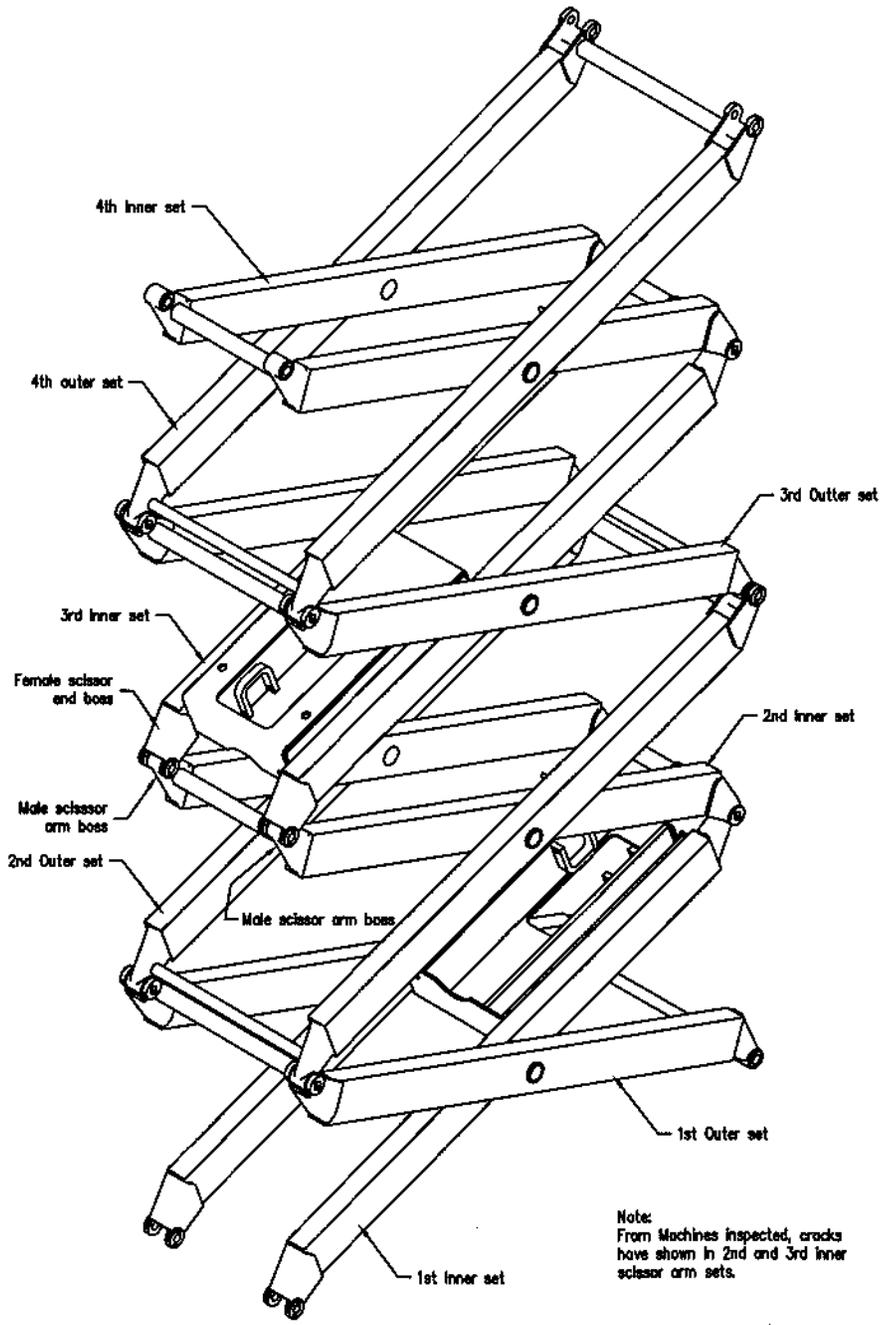
1. Serial number of the machine.
2. Number of hours from hour meter.
3. Location of any cracks found.
4. Name of Welder performing the repair.
5. A copy of the welder's certificate.
6. Date the repair was completed.

Ownership of Machines:

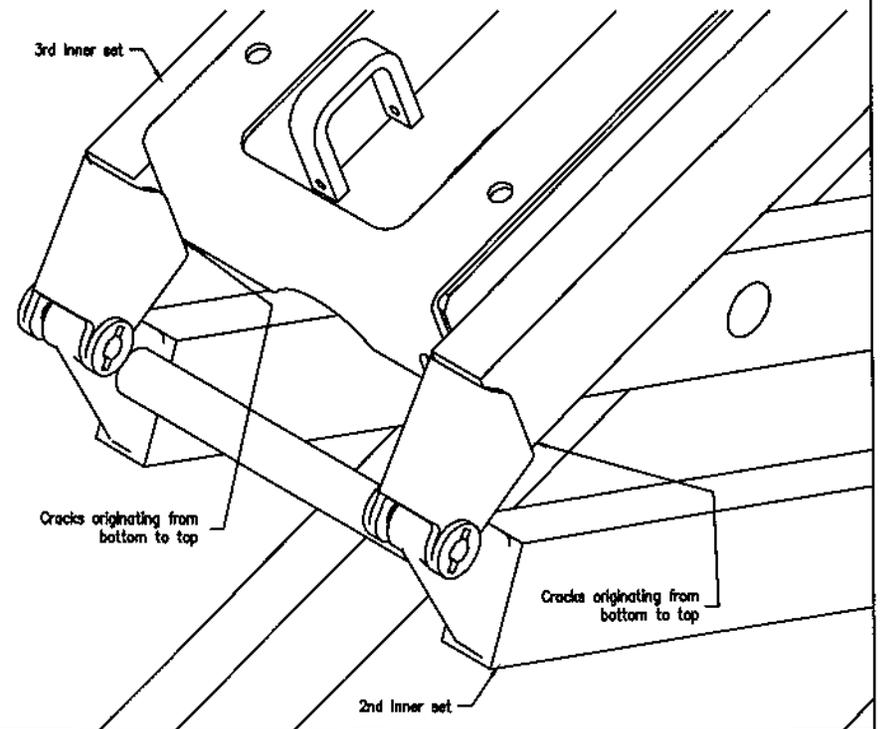
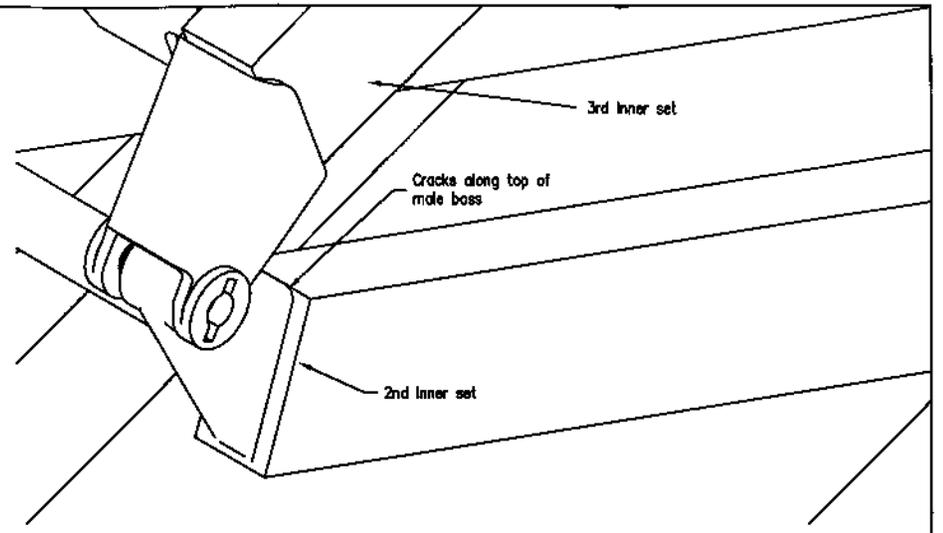
If you have sold or transferred SJM3219 machine(s) with the serial numbers listed above, it is your responsibility to forward this service bulletin to the current owner and to notify Skyjack Inc.

Contact Information:

We regret the inconvenience and appreciate your cooperation. If you have any questions please call Skyjack Service at **800-275-9522** or **630-262-0005**. You can e-mail any questions to service@skyjackinc.com



Note:
From Machines inspected, cracks
have shown in 2nd and 3rd inner
scissor arm sets.



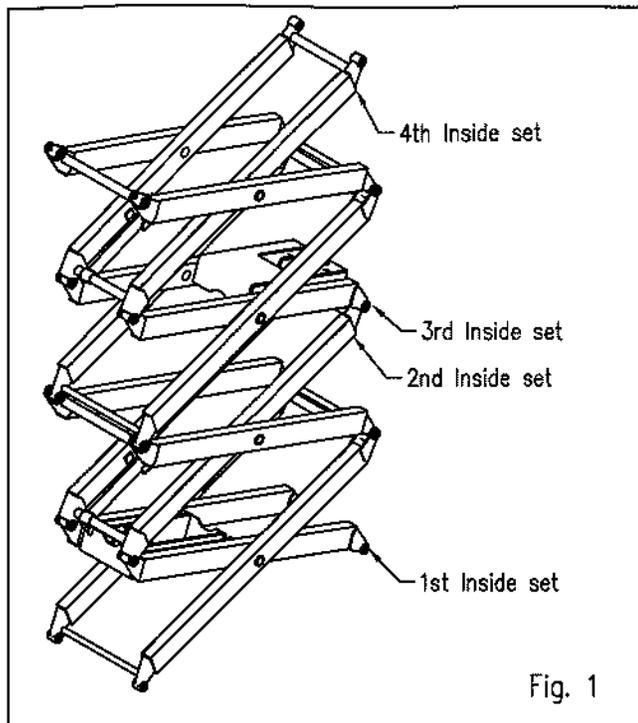


Fig. 1

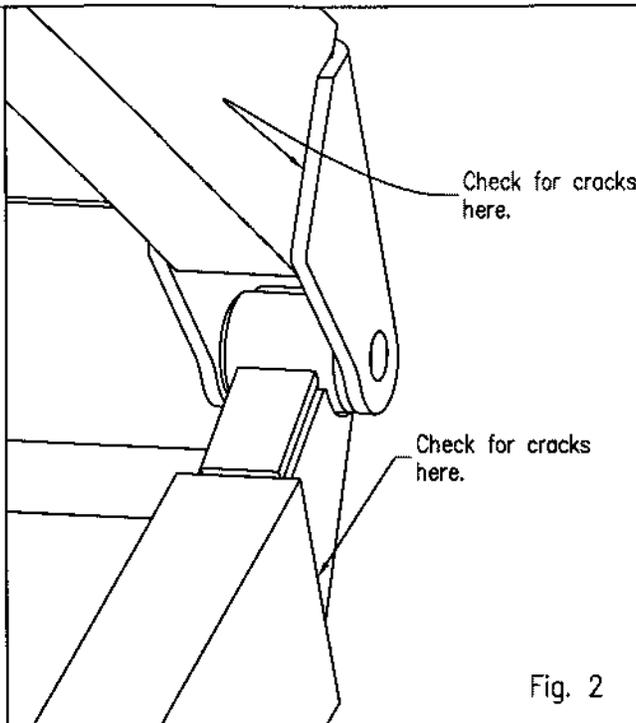


Fig. 2

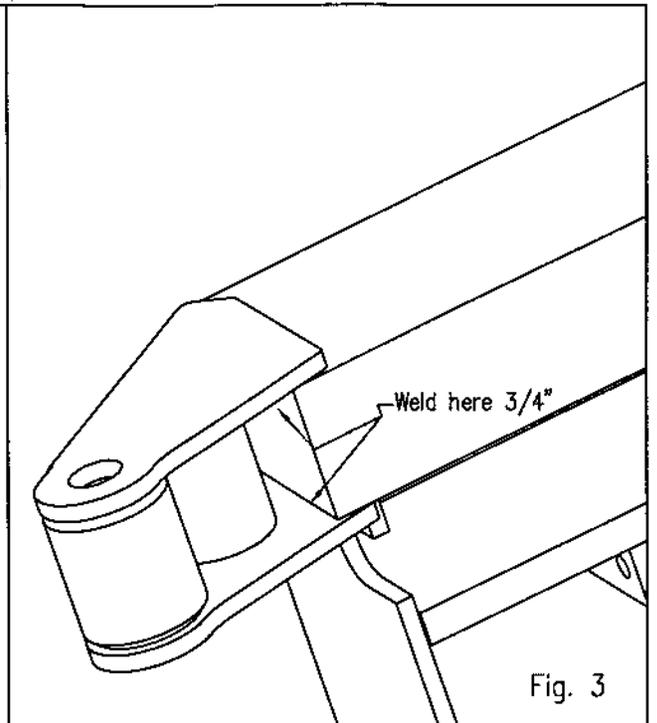


Fig. 3

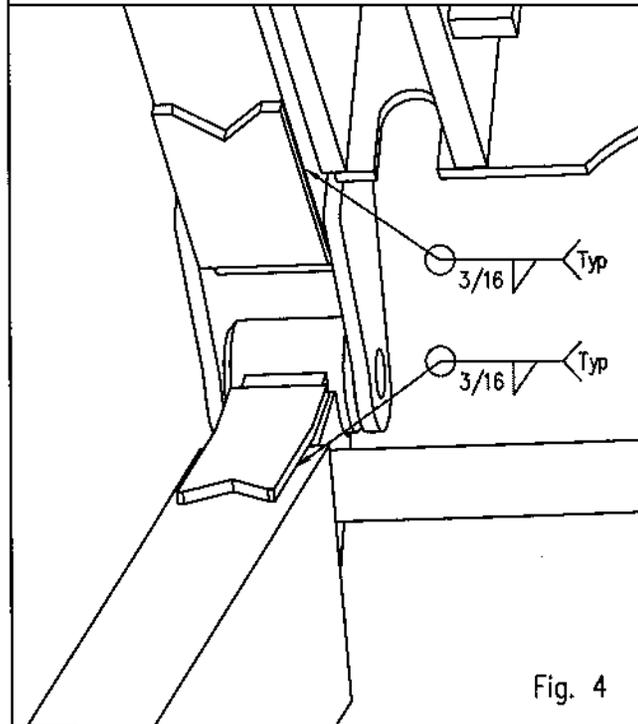


Fig. 4

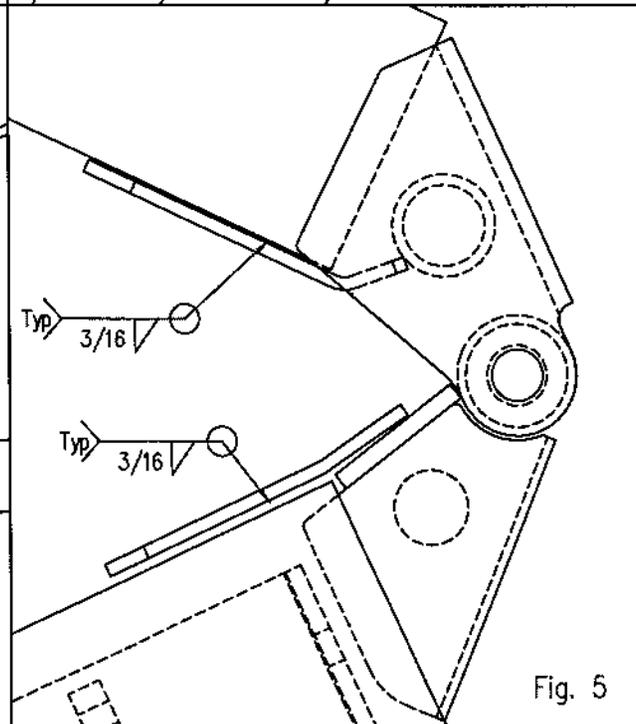


Fig. 5

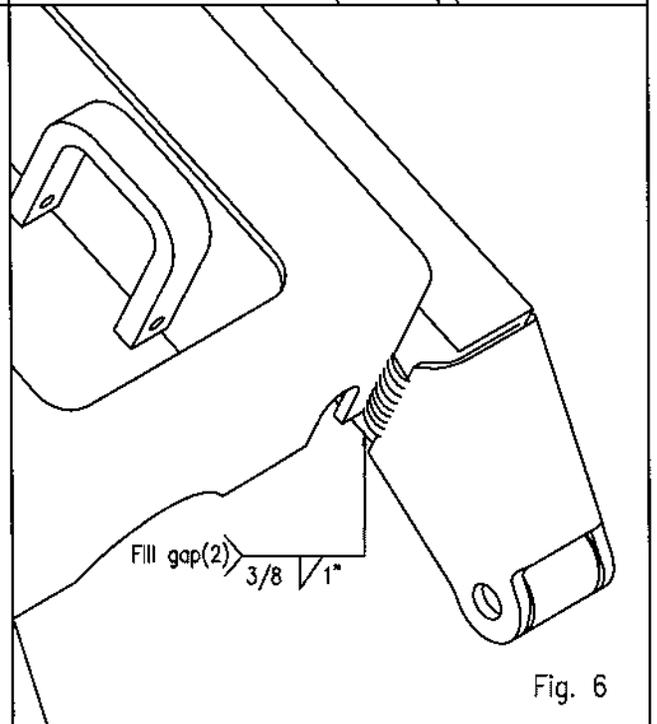
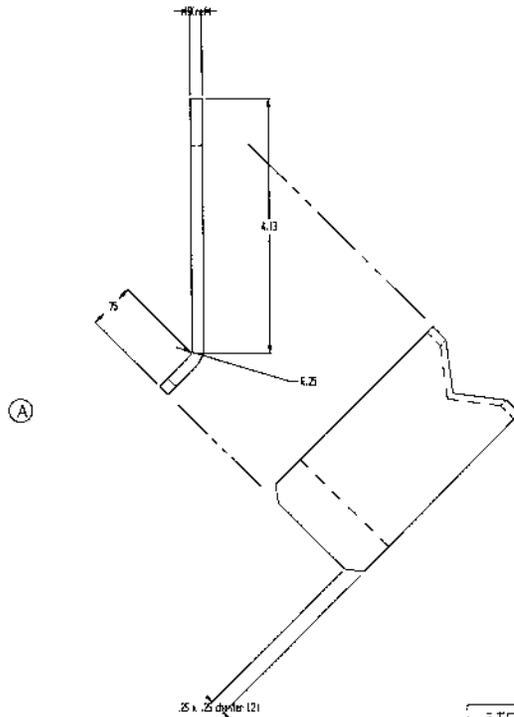
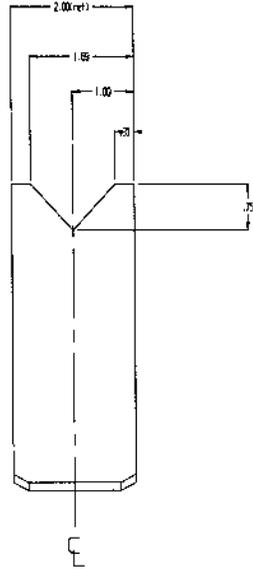


Fig. 6

DRAWING NO.	REV
310242	C

LTR	REVISION DESCRIPTION	E.C.D. #	DATE	BY
A	Change: .75 was 1.00	C1232	18Feb98	mdo
B	Change: Material A575 M1044 was A36 HR 234 4.9231 ±.016 was 5.1731 ±.016	HR 234	2/25/98	DDH
C	Change: Material A36 HR was A575 M	0421253	3/6/98	DDH

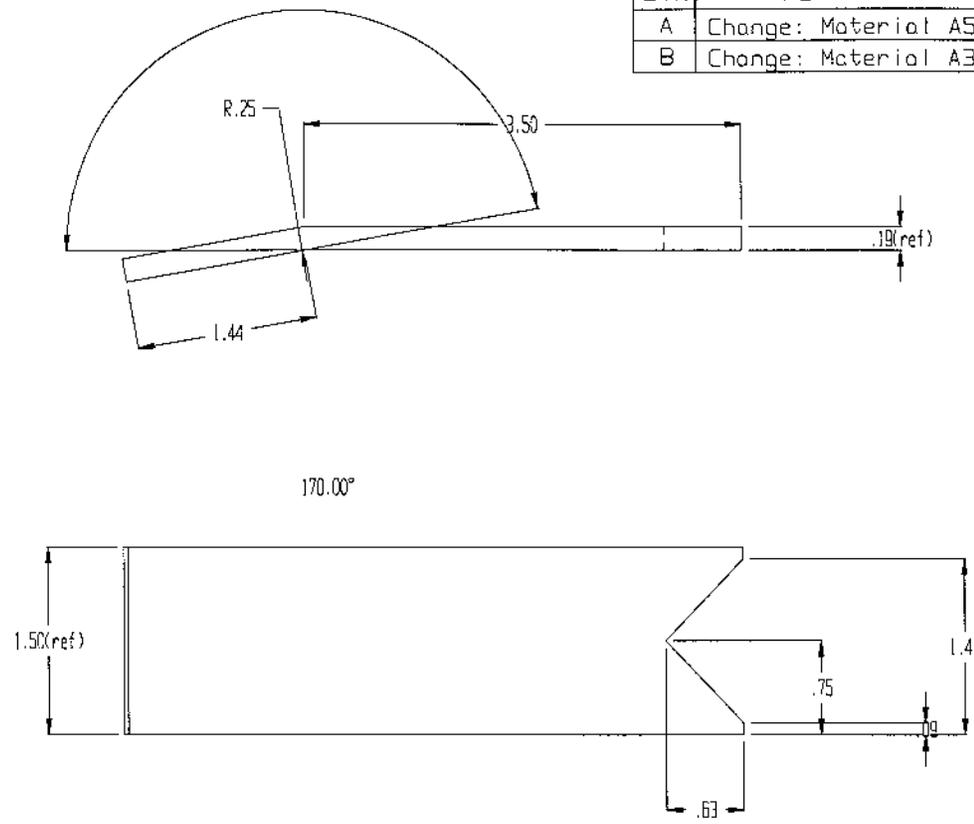


②
D.A.L. = 4.9231 ±.016

APPROVAL		ITEM	PART NO.	DESCRIPTION	QTY.
SIGNATURE	DATE	BILL OF MATERIAL			DRAWING NO. REV
ENG _____		SKYJACK Manufacturing, Inc. <small>HIGHWAY 4 SOUTH, P.O. BOX 249, EMMETSBURG, IOWA 50536 TEL: (712) 852-2724 / FAX (712) 852-2952</small>			310242 C
EM _____					SHEET 1 OF 1
MFG _____					SCALE: 1:1
QA _____					PART NAME: Strap, Scissor wide, SJ
BREAK ALL SHARP CORNERS .03 MAXIMUM UNLESS OTHERWISE NOTED: DIMENSIONS ARE IN INCHES. DECIMALS: .XX ± .016 .XXX ± .005 FRACTIONS: ± 1/16 ANGLES: ± 1°		MATERIAL: SFH 3/16 x 2" ASTM A36 HR ③ ④ DRAWN BY: mdo DATE: 10Feb98 E.C.D. #: C1231			

DRAWING NO.	REV
310243	B

LTR	REVISION DESCRIPTION	E.C.O.#	DATE	BY
A	Change: Material A575 M1044 was A36 HR	234	2/25/98	DDH
B	Change: Material A36 HR was A575 M	04253	3/6/98	DDH



O.A.L. 4.9505±.016

APPROVAL		ITEM	PART NO.	DESCRIPTION	QTY.
SIGNATURE	DATE	BILL OF MATERIAL			DRAWING NO.
ENG. _____		 <small>HIGHWAY 4 SOUTH, P.O. BOX 249, EMMETSBURG, IOWA 50538</small> <small>TEL: (712) 852-2724 / FAX (712) 852-2952</small>			REV
EM _____					310243
MFG. _____					SHEET 1 OF 1
QA _____					SCALE: 1:1
BREAK ALL SHARP CORNERS .03 MAXIMUM UNLESS OTHERWISE NOTED: DIMENSIONS ARE IN INCHES. DECIMALS: .XX ± .016 .XXX ± .005 FRACTIONS: ± 1/16 ANGLES: ± 1°		PART NAME: Strap, Scissor narrow, SJ		MATERIAL: SFH .1875 x 1.50 ASTM A36 M® B	
		DRAWN BY: ndo		DATE: 10Feb98	E.C.O. #: C1231



Service Bulletin #77
SJM3219 Scissor Ends Inspection and Repair
*******SAFETY RELATED*******

July 17, 2000

Product Affected: SJM3219

SJM3219

221964 and below.

Introduction:

To ensure the safety of our customers and yours, we require that the following inspection and repair for SJM3219 machines listed above be completed. Without this repair, the possibility exists that a failure may occur whereas the scissor structure may collapse, causing the platform to suddenly lower and tilt. Therefore it is imperative that this bulletin be completed immediately. Please follow the instructions included to complete this inspection and repair.

Procedure:

1. Qualification Of Personnel

The welding is to be done by a welder-fitter qualified by:

- a valid welders certificate for SMAW welding of steels (with up to 70,000 psi yield strength) in the vertical 3G and overhead 4G positions as described in the AWS Structural Welding Code D1.1, Part C or CSA W47.1. Vertical welding must be in the vertical UP position.
- at least 3 years experience after issue of the welder certificate
- experience in welding 1/16" to 1/8" material

2. Retrofit Of Sjm3219 Scissor Structure

Inspection (See Figure # 2)

1. Check for elongated holes or torn scissor end ears on female scissor ends, particularly on the one on inside level 2. A scissor end hole is to be considered elongated when a 0.032" feeler wire fits into the gap between the pin and the hole edge at the widest part of the gap.
2. Check if some scissor ends have reinforcing straps. This bulletin is for the installation of reinforcing straps on the female scissor ends as per item 5, page 3. If no scissor ends have reinforcing straps, please complete Service Bulletin #60 before proceeding with work described in this service bulletin. If you need a copy of Service Bulletin #60, contact SKYJACK service at 800-275-9522 or 630-262-0005.



3. After paint removal, visually inspect for cracks and faulty welds on all male and female scissor end weldments. Special attention shall be focused on the bottom corners of the scissor tube at the toe of the welds joining the female scissor ends to the tube. See Fig. #2.

Scissor Tubes and Ends Found Cracked and Separated, with Elongated Holes or Torn Ends

If the scissor ends have separation from the scissor tubes or if there are cracks with gaps, elongated holes or torn ends, immediately remove the unit from service and contact Skyjack service at 800-275-9522 or 630-262-0005. Please reference Service Bulletin #77 when calling.

Scissor Tubes and Ends Found Cracked with No Separation

1. Lift the platform to a height, which gives the best working position.
2. Drill a 3/32" hole at the ends of cracks
3. Grind out cracks to prepare for welding a V-groove weld. There should be no gap at the root of the groove.
4. Remove paint from the area of cracks to be welded and weld the cracks.
5. Remove paint from the areas where the provided reinforcing straps, part #310619, are to be welded (see figures #3 and 4). Note: All female ends are to be reinforced with strap #310619, except the four female ends at the base (bottom of level 1) and the two female ends under the platform (the top of level 4). (Note: Only level 2 inside is shown in figures # 4 and 5).
6. At each location in turn, clamp the provided strap to the scissor tube at the female scissor end making sure that the end of the strap is in contact with the boss inside the female end and the length of the strap is in complete contact along the tube. See figures #3 and 4.
7. Tack (do not weld until after clearance check in step 9) the strap and remove the clamp.
8. After tacking all straps, lower the platform to the fully retracted position.
9. Check that there is clearance between each male and female scissor end as shown in figure # 3. Use a feeler strap 1/16" thick. If there is interference or contact between the boss in the female end and the adjacent male end or the strap and the adjacent scissor tube, adjust the strap location. If this is not possible, report to SKYJACK service at 800-275-9522 or 630-262-0005.
10. If there is clearance, raise the platform back to the position required for welding.
11. Weld all straps all around with 1/8" fillet welds using 3/32" or 1/8" type E7018 rods. The welds must be continuous from the tube to the inside of the female end and across the boss inside the female end. See figures #4 and 5.
12. Wire brush the welds to remove slag and re-inspect for cracks. DO NOT GRIND.
13. Preparation for painting: Remove weld spatter. DO NOT GRIND THE WELDS. Apply two coats of the touch-up paint provided by SKYJACK.

Scissor Tubes and Ends Found without Cracks

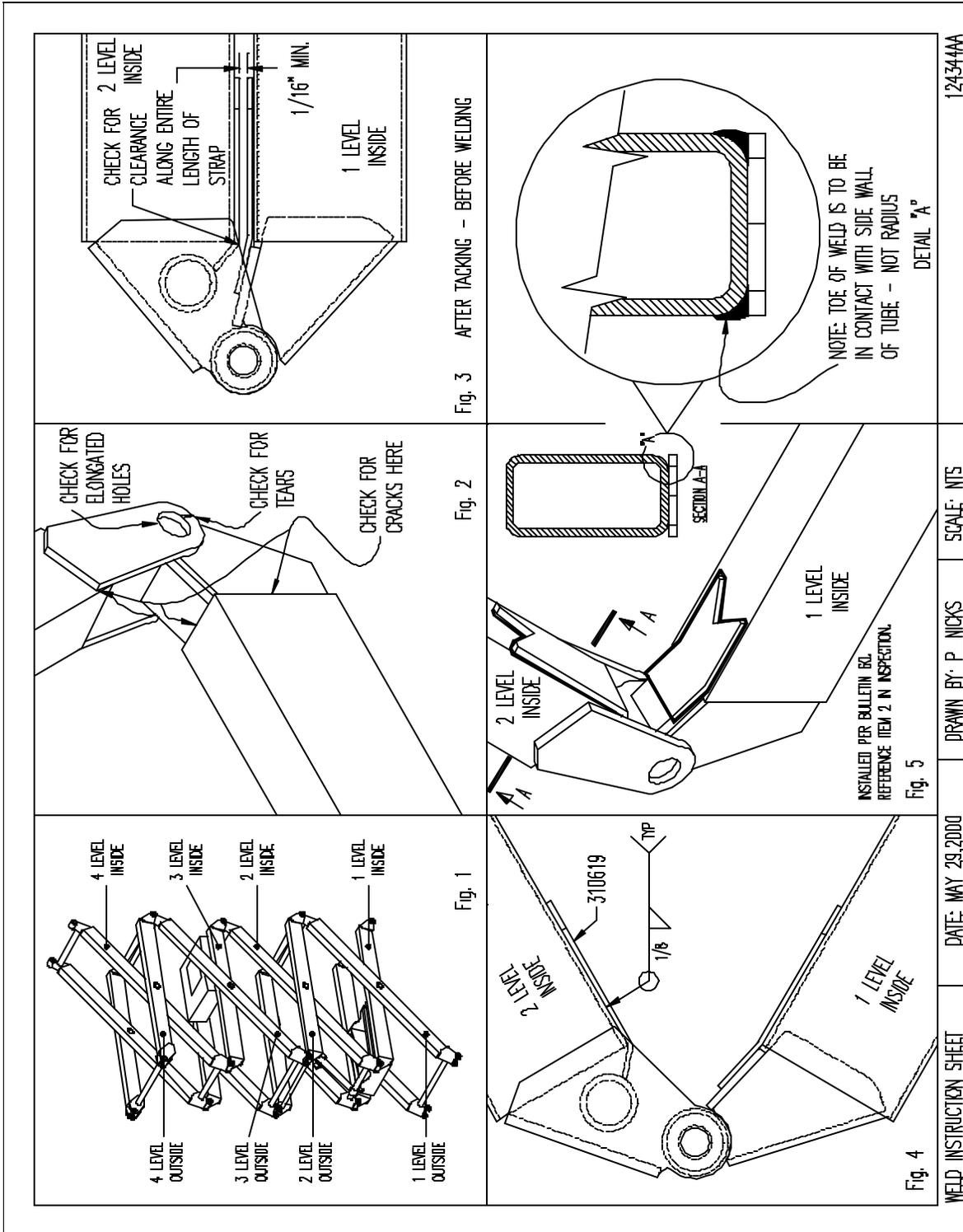
Follow the procedure above omitting steps 2, 3, and 4.

Final Inspection

1. Completely lower the machine
2. Steps 2 and 3 to be done by a qualified service person. Connect a pressure gage to the lift hose and set lift pressure to the pressure stated on the machine nameplate.
3. Ensure unit lifts not more than 520 lbs from the fully retracted position.



4. Cycle the unit to ensure smooth operation when lifting to full height and lowering to the fully retracted position.
5. The welder-fitter shall complete the inspection form attached to this service bulletin (page 6).
The welder-fitter shall sign at "Repaired by _____"
The person doing the final inspection shall sign at "Inspected by _____"
The welder-fitter and the inspector cannot be the same person.



124344AA

SCALE: NTS

DRAWN BY: P. NICKS

DATE: MAY 29, 2000

WELD INSTRUCTION SHEET



SJM 3219 INSPECTION AND REPAIR CHECK LIST

Inspected by: _____ Machine Serial No.: _____ Date: _____

Repaired by: _____

Inspect every tube scissor end for weld cracks. Follow instructions in repair bulletin. Check the "Inspected" box. Check the "Welds repaired" box if repairs are made. Check the "Straps installed" box after installing the straps.

Level	Scissor tube location	Scissor end location	Inspected	Welds repaired	Straps installed
1	First level inside RH tube	Female scissor end			N/A
		Male scissor end			
1	First level inside LH tube	Female scissor end			N/A
		Male scissor end			
1	First level outside RH tube	Female scissor end			N/A
		Male scissor end			
1	First level outside LH tube	Female scissor end			N/A
		Male scissor end			
2	Second level inside RH tube	Female scissor end			
		Male scissor end			
2	Second level inside LH tube	Female scissor end			
		Male scissor end			
2	Second level outside RH tube	Female scissor end			
		Male scissor end			
2	Second level outside LH tube	Female scissor end			
		Male scissor end			
3	Third level inside RH tube	Female scissor end			
		Male scissor end			
3	Third level inside LH tube	Female scissor end			
		Male scissor end			
3	Third level outside RH tube	Female scissor end			
		Male scissor end			
3	Third level outside LH tube	Female scissor end			
		Male scissor end			
4	Fourth level inside RH tube	Female scissor end			N/A
		Male scissor end			
4	Fourth level inside LH tube	Female scissor end			N/A
		Male scissor end			
4	Fourth level outside RH tube	Female scissor end			N/A
		Female scissor Roller End			
4	Fourth level outside LH tube	Female scissor end			N/A
		Female scissor Roller End			



Parts and Warranty Policy:

Warranty Claim Form

The warranty claim form should include the following information.

1. Serial number of machine
2. Number of hours from hour meter
3. Location of any cracks found
4. Name of welder-fitter performing the repair
5. A copy of the welder's certificate
6. Date when work per this service bulletin was completed.
7. A copy of the signed inspection sheet (page 6) and the warranty claim form must be faxed to the SKYJACK service department at 630-262-0006.

Skyjack Inc. will supply the required parts and pay US\$ 250.00 to cover labor, travel and other expenses.

Upon completion, send in a warranty claim form for each machine, stating this Service Bulletin has been completed.

Ownership of Machines:

If you have sold or transferred SJM3219 machine(s) with the serial numbers listed above, it is your responsibility to forward this service bulletin to the current owner and to notify Skyjack Inc.

Contact Information:

We regret the inconvenience and appreciate your cooperation. If you have any questions please call Skyjack Service at **800-275-9522** or **630-262-0005**. You can e-mail any questions to service@skyjackinc.com