GRADALL®

Parts · Service · Training · Warranty

TO: **GRADALL** Excavator Service Managers
AFFECTED MODEL: Series V 3000 models (Serial Number Specific)
SUBJECT: Counterweight mounting hardware
RELEASE DATE: December 16th, 2022 **BULLETIN NUMBER:** 41200183

Gradall made a running change to the counterweight mounting hardware. Some units shipped from the factory may not have had these hardware updates, which could result in loosening of the hardware. This bulletin will address the visual inspection of the counterweight hardware, installation of the hardware, as well as how to install the updated hardware, if required.

Affected Units:

Series V 3000 units in the following S/N ranges:

- XL 3100V (4x2) - S/N's 3120000514 thru 3120000554
- XL 3100V (4x4) – S/N's 3140000443 thru 3140000465
- XL 3300V - S/N's 3300000801 thru 3300000811
- XL 3300V (Rail Units) - S/N's 3300R00100 thru 3300R00102
- XL 3200V - S/N 3200000580
- XL 3210V - S/N's 3210000043 and 3210000044

Corrective Action:

Inspect the above units for the correct hardware and installation.

The mounting bolts should be Grade 8. There should be two square washers present, per bolt, as well as a NORDLOK-style lock washer. The hardware should also be secured with RED Loctite.

The placement of the square washers also needs inspected. If any part of the square washer is resting on the weld, the bolt will need to be removed so the square washer can be rotated away from the weld. RED Loctite will need applied to the new bolts, reinstalled, and torqued to 625ft.lbs +50/-0.

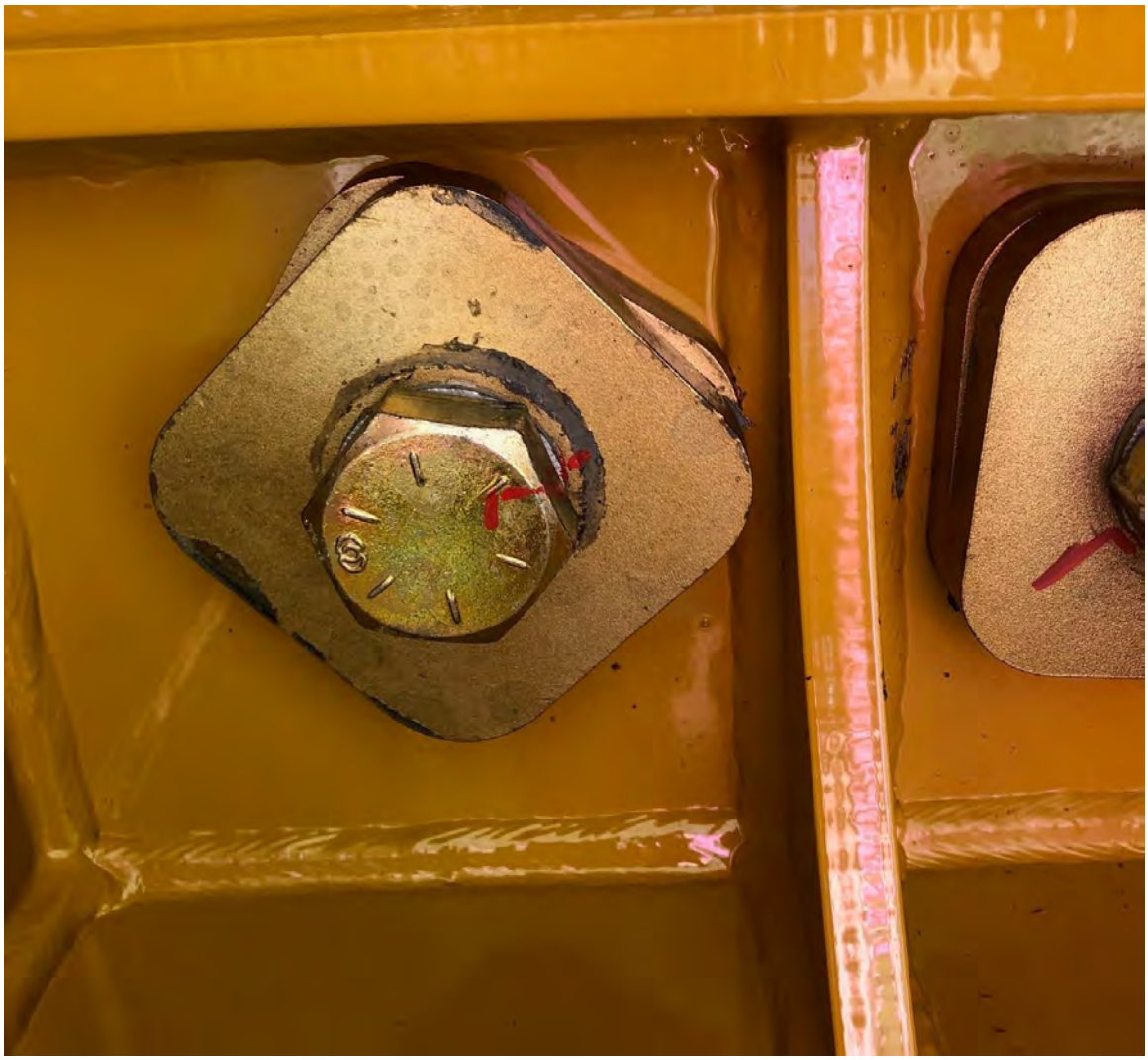
Using a shim (Gradall p/n 80341133) for reference there should not be a gap larger than 1/16" between the counterweight and frame at the four mounting areas once all the correct hardware has been confirmed and torqued properly. If a shim can fit between the counterweight mounting surface and the frame, another shim should be placed at that bolt/area.

If no issues, as described above, are found, no update is required.

If the mounting hardware requires an update, order the following items, and follow the installation drawings attached to the end of this bulletin:

- 80804015 – Mounting Hardware Kit – (qty. 1)
- 14404102MSDS - Loctite #277 Red, 50mL bottle – (as required)

SERVICE INFORMATION



This image shows the correct Grade 8 bolt (with 6 marks on its head) and the NORDLOK-style washer on the left-hand side. However, on that same side, the square washer is resting on the weld, which is incorrect. The right-hand side of the image shows the correct placement of the square washers, making no contact with the weld.

This scenario requires an update using the mounting hardware kit. The left-hand side bolt and NORDLOK-style washer need removed. Install a new Grade 8 bolt and NORDLOK-style washer, add RED Loctite, rotate the square washer(s) so they do not contact the weld, and torque bolt to spec. Retorque stripe bolt head/square washer for visual inspection.

For the safety of the technician, rework 1 bolt at a time.



This image shows an incorrect Grade 5 bolt (with 3 marks on its head), and a single square washer resting on the weld.

This scenario requires an update using the mounting hardware kit. If any broken bolts are found, they must be removed and replaced with Grade 8 bolts, adding RED Loctite to the threads, NORDLOK-style washers installed, and two square washers (per bolt) installed. Ensure the square washers are not resting on the welds, and torque bolt to spec. Retorque stripe bolt head/square washer for visual inspection.

For the safety of the technician, rework 1 bolt at a time.

Recommended Action:

Please provide this Service Information to your service technicians and customer service personnel.

GRADALL will reimburse ½ hour for the inspection of the counterweight mounting hardware, and up to 2 hours travel time for the inspection. GRADALL requires the completion of the inspection not to exceed 30 calendar days from the release date of this bulletin.

If replacement/installation of any of the hardware is required: Upon receipt of the required parts and the completion of the work, the ***GRADALL account holder will be reimbursed for the parts and up to 2 hours of labor for the completion of the job. Travel time will be permitted for this as well, up to 2 hours. GRADALL*** requires the completion of the work not to exceed 30 calendar days from the receipt of the repair parts. Failure to complete the repair within the allotted timeframe will result in rejection of warranty application.

Only ***GRADALL*** Account holders can be directly reimbursed for any claims associated with the completion of this bulletin. If you have received the Service Bulletin, our records indicate that you are a ***GRADAL***L Distributor that has an account capable of parts purchase and warranty submission.

When submitting your claim, **you must reference** Service Bulletin 41200183 on the claim under the heading “Dealer Comments”. The Claim type must be selected as “Other”. If Claim Type is not selected correctly, claim processing will be delayed.

Contacts: Should you have any questions or require further assistance concerning this bulletin, please contact ***GRADALL*** Service Department at 1-800-445-4752.

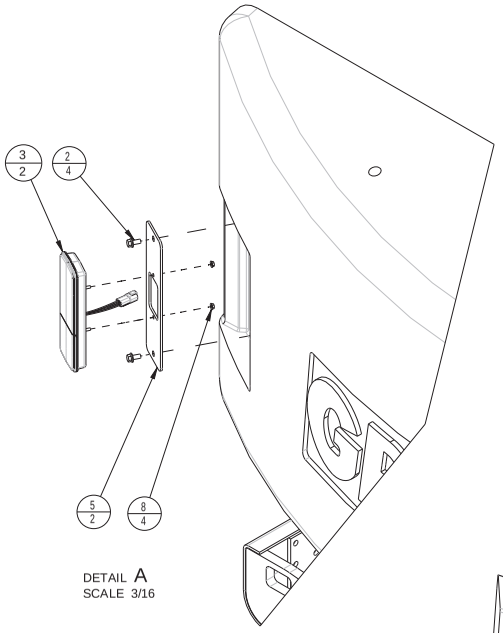
SERVICE INFORMATION

DRAWING NUMBER 80805001 | REV. G

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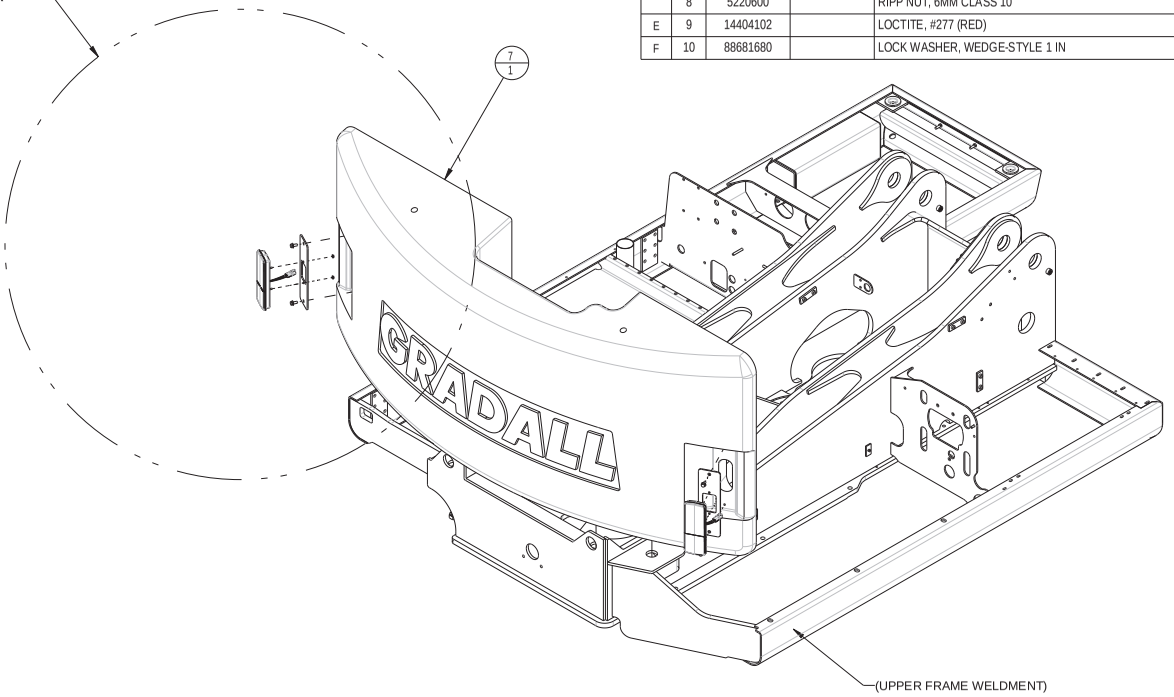
PARTS LIST

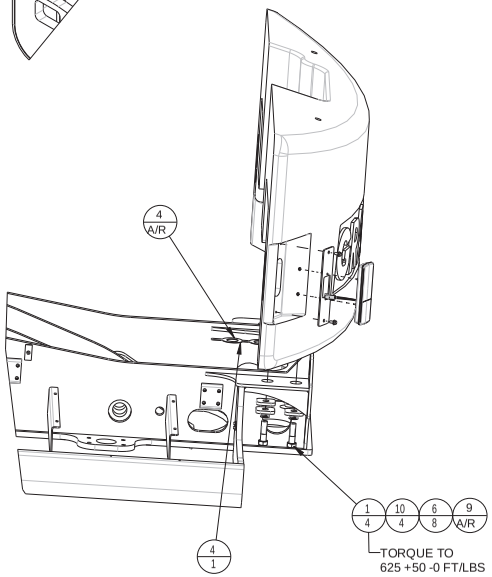
REV	SEQ.#	ITEM NO.	REF.DWG.	DESCRIPTION	P/L	QTY
G	1	83201030		HHCS_GR8, 1-8 X 3-1/2 LG		4
	2	80303094		WHIZ LOK SCREW, 3/8-16 X 3/4 LG		4
	3	2920194		LIGHT, TAIL-SWING	X	2
D	4	80341133		CWGT SHIM,		A/R
	5	4341111		MOUNT, TAIL/SWING LIGHT		2
F	6	4740569		WASHER-SPL, SQUARE		8
	7	4821468		COUNTERWEIGHT, 6,000 LBS		1
	8	5220600		RIPP NUT, 6MM CLASS 10		4
E	9	14404102		LOCTITE, #277 (RED)		A/R
F	10	88681680		LOCK WASHER, WEDGE-STYLE 1 IN		4



DETAIL A
SCALE 3/16

SEE DETAIL A





PARTS LIST BALLOON — XX / XX — PARTS LIST SEQ.# / QUANTITY

DRAWINGS CREATED IN Pro/ENGINEER.
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES.

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REV	ZONE	DATE	BY	DESCRIPTION	PAR	ER NO	CHKD
G	A6	18JUL19	JJJ	ITEM 1 WAS 88201140, TORQUE SPEC WAS 545 +50-0		EC190223	RDM
F	A6	13MAR19	JJJ	ITEM 1 WAS 88201137, ITEM 6 QTY WAS 4, ADDED ITEM 10		EC190076	RDM
E	A6	04FEB17	SEG	ITEM 9 14404102 WAS 14403364		EC170040	RDM
D	A7	16Oct08	JEJ	ITEM 4 80341133 (QTY A/R) WAS 4071123 (QTY A/R)		EC 080459	GTB
C	A6	9AUG06	RAC	QTY. 4 - 88201137 (IT. 1) WAS QTY. 4 - 88201140.		8080-1	JAM

REVISIONS

SPECIFICATIONS
DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994
ALL WELDING TO STRUCTURAL WELD CODE-STEEL ANSI/AWS D1.1
NEXT ASSY
DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED ALL TOLERANCES ARE AS SHOWN.
ALL ANGLES ± 1°
UNLESS OTHERWISE SPECIFIED
THIRD ANGLE PROJECTION

DRAWN BY: RAC
DATE: 24-Mar-06
CHK'D. BY: RDM
DATE: 27-Mar-06
E.R. NO. 8080-1
FINISH: -
REF. DWG.
MACH. SURF. 125 MAX

GRADALL

TITLE: INSTALLATION, 6,000# COUNTERWEIGHT

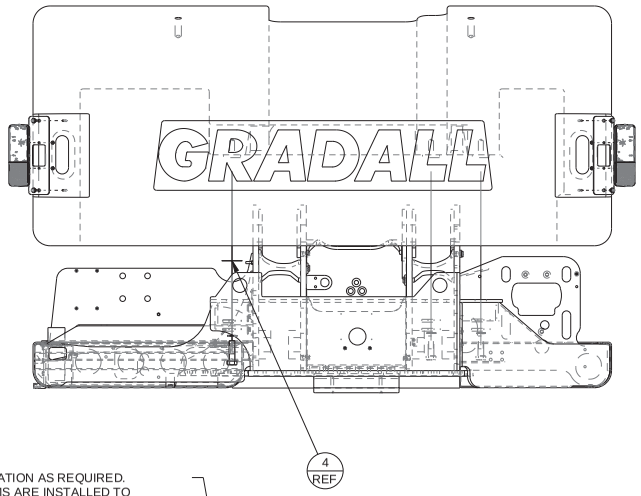
MATERIAL: SEE PARTS LIST

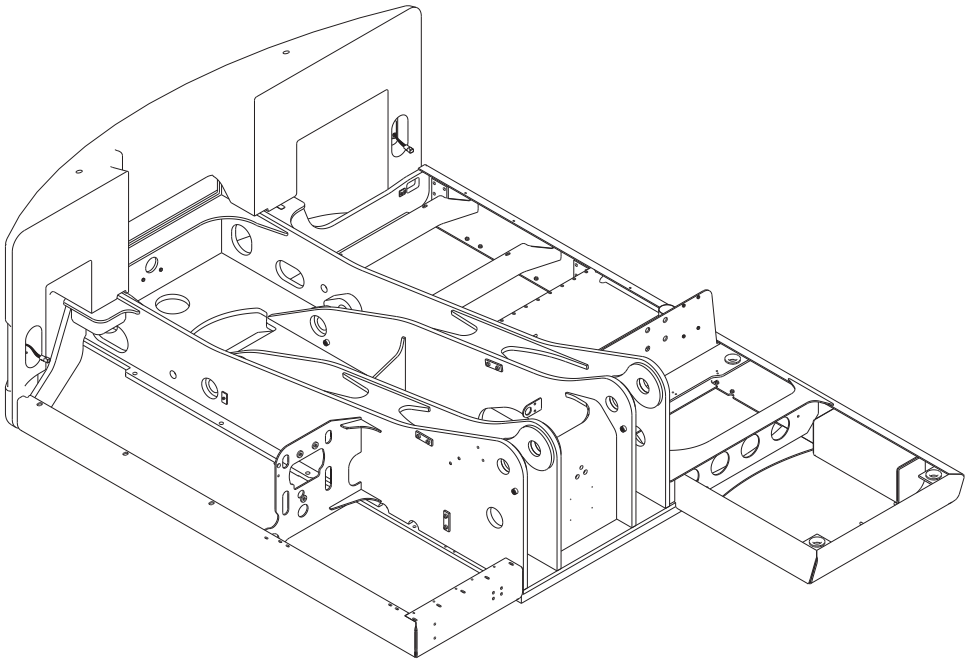
SIZE D | CAGE CODE: | DWG NO. 80805001 | REV G

SCALE: 3/32 | EST WT: | SHEET: 1 OF 2

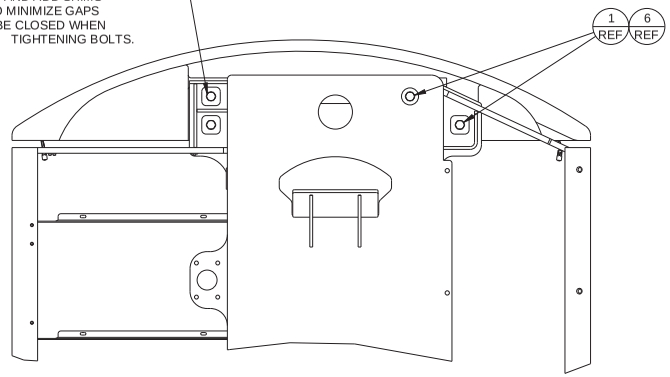
DRAWING NUMBER 80805001 REV G

DRAWING NUMBER 80805001





SHIM EACH LOCATION AS REQUIRED.
AFTER SHIMS ARE INSTALLED TO
ALIGN COUNTERWEIGHT WITH SHEETMETAL
RECHECK ALL LOCATIONS AND ADD SHIMS
WHERE POSSIBLE TO MINIMIZE GAPS
THAT WILL NEED TO BE CLOSED WHEN
TIGHTENING BOLTS.



REV	ZONE	DATE	BY	DESCRIPTION	PAR	ER NO	CHKD
G	B8	18JUL19	JJJ	ADDED DETAIL TO NOTE FOR COUNTERWEIGHT SHIM PROCEDURE		EC190223	RDM
F		13MAR19	JJJ	REVISION LEVEL UPDATE		EC190076	RDM
E		04FEB17	SEG	REVISION LEVEL UPDATE		EC170040	RDM
D		16Oct08	JEJ	REVISION LEVEL UPDATE ONLY; SEE SHEET 1		EC 080459	GTB
C		9AUG06	RAC	SEE SHEET 1.		8080-1	JAM
B	-	29May06	LES	REVISION LEVEL UPDATE		8080-1	RDM

REVISIONS

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DATE: 24-Mar-06
CHK'D. BY: RDM
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E.R. NO. 8080-1
FINISH: -
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MACH. SURF. 125 MAX

GRADALL

TITLE: INSTALLATION, 6,000# COUNTERWEIGHT

MATERIAL: SEE PARTS LIST

SIZE D | CAGE CODE: | DWG NO. 80805001 | REV G

SCALE: 3/32 | EST WT: | SHEET: 2 OF 2