

Keep with Loader Operators' Manual

MOUNTING KIT

SMC & RHINO 2409 LOADER ON

KIOTI DK35 TRACTORS SERIAL NUMBER 261400101 AND ABOVE

Mounting brackets can be installed using tools ordinarily available.

NOTE: Leave all hardware loose until loader is completely assembled to facilitate alignment. Torque hardware to specifications listed in loader manual.

TRACTOR PREPARATION

1. Temporarily remove tractor side panels and front grille to prevent damage during installation of tractor mounting.
2. Temporarily loosen lower side panel support by removing two rear bolts from both left and right side of tractor.
3. Remove all dust plugs from transmission housing on left and right side of tractor.
4. Remove cap screws securing inspection cover plate from right side of clutch housing. Leave original gasket in place. Inspection opening will be covered by loader mid mount bracket.

INSTALLING MOUNTING BRACKETS

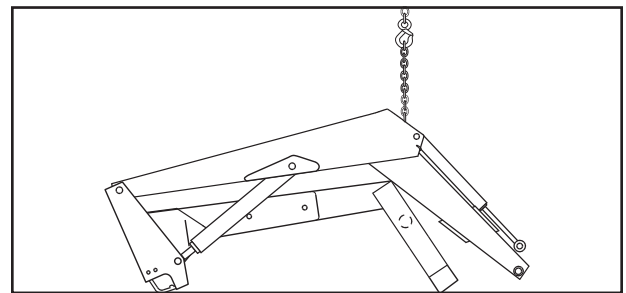
1. Install front mounting bracket (3) to tractor frame using 5/8 x 1-1/2 cap screws (16) and 5/8 lock nuts (12).
2. Install mid mounting brackets (1 & 2) to clutch housing and tractor side frame using 14MM x 35MM cap screws (17), 9/16 lock washers (18), and flat washers (19). Use 9/16 flat washers (19) under lock washers (18) at slotted holes in mid mounting brackets (1 & 2).
3. Install left and right struts (5 & 6) to tractor rear axle casting using 12MM x 35MM cap screws (8) and 1/2 lock washers (9), and to mid mounting brackets (1 & 2) using 5/8 x 1-1/2 cap screws (16) and lock nuts (12).
4. Install cross tie (7) to mid mounting brackets (1 & 2) using 1/2 x 1-1/2 cap screws (13), 1/2 flat washers (15), and 1/2 lock nuts (14).
5. Tighten and torque hardware to torque specifications shown in General Torque Specifications table.

6. Replace and tighten bolts in lower side panel supports on both sides of tractor.

7. Reinstall tractor side panels and front grille.

INSTALLING LOADER TO MOUNTING BRACKETS

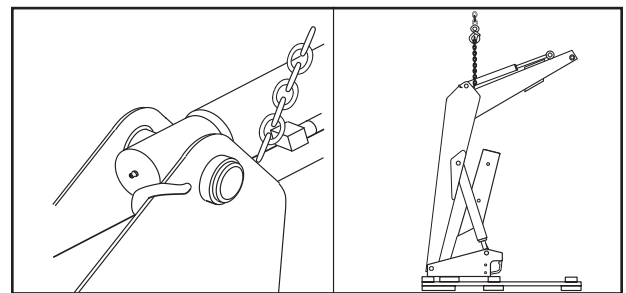
WARNING: To avoid injury during installation of quick attach loader, do not permit bystanders within ten feet of loader.



1. Loop chain under each lift cylinder and hook on loader boom arm. Using overhead hoist to support loader remove hardware securing loader to pallet. Lift loader and remove pallet.

CAUTION: Do not damage grease fitting on end of cylinder. Be sure chain does not pinch lift cylinder.

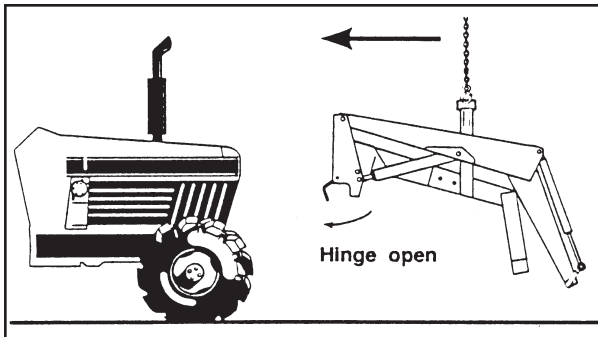
2. Using overhead hoist, lower loader from vertical shipping position to horizontal position leaving enough room to install yoke (scraps of cardboard may be used to protect paint). Install yoke assembly (4) using 3/4 x 2-1/2 cap screws (10) and lock nuts (11). Lower loader completely to the ground.



NOTE: Tighten hardware connecting yoke to loader side frames to be snug but do not torque completely. After loader has been mounted to tractor and aligned with mid mounting brackets and front mounting brackets, torque hardware to 239-262 ft. lb.

INSTALLING LOADER TO MOUNTING BRACKETS (Cont.)

3. Install hose or valve kit to tractor and loader. Refer to assembly manual provided for installation instructions.
4. Position tractor close enough so plumbing can be connected to tractor. Route hoses loosely to allow maximum reach. Using nylon straps reposition overhead hoist to loader boom arms near pivot point to side frames.
5. Operate loader control valve to extend lift cylinders until front yoke is resting on ground and side frame uprights will clear front tires. Shut off tractor engine and engage tractor brakes. Reroute loader hoses to inside of right mid mounting bracket. Remove lock nut and washer from loader hinge and swing each hinge open.



6. Start tractor engine, release tractor brakes and slowly drive forward while operating lift control levers to retract lift cylinders. Position loader so hinges hook over mid mounting tubes. Use of overhead hoist will facilitate positioning loader into mid mounting tubes.

IMPORTANT: Position loader uprights so mid mounting tubes are tight against hinges until loader has finished rotating so loader front bumper tube does not hit lower flange of front mounting channel.

7. With tractor in neutral, retract lift cylinders, bringing side frame up so front yoke tube contacts lower surface of tractor frame. Move tractor ahead until front yoke tube engages in front mounting channel and upright hinges can clamp around mid mounting tube. Engage tractor brakes and shut off tractor engine.
8. Clamp hinges to mid mounting tubes with 3/4 flat washers and 3/4 flex-lock nuts (supplied with loader).

9. Start tractor engine and slowly cycle lift and bucket cylinders several times to purge air out of system, then retract cylinders and shut off tractor engine. Add additional tractor hydraulic fluid as specified in tractor owners manual to bring level of hydraulic fluid up to full.

IMPORTANT: Be sure to use flex-lock nuts to clamp hinge. Tighten flex-lock nuts against hinge securely, but not to more than 125 ft.-lb. torque.

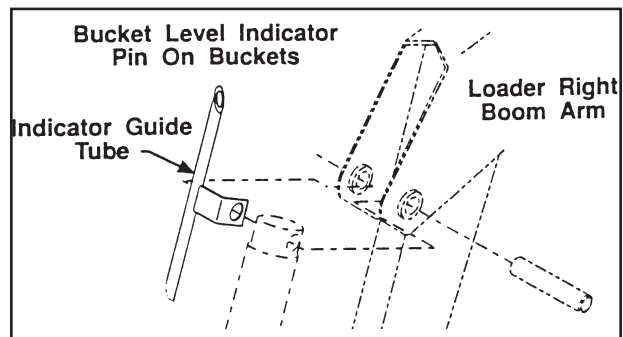
10. Adjust front wheel tread settings or steering stops, if necessary to prevent interference between tires and loader. Refer to tractor operator's manual for adjustment procedures.

INSTALLING BUCKET

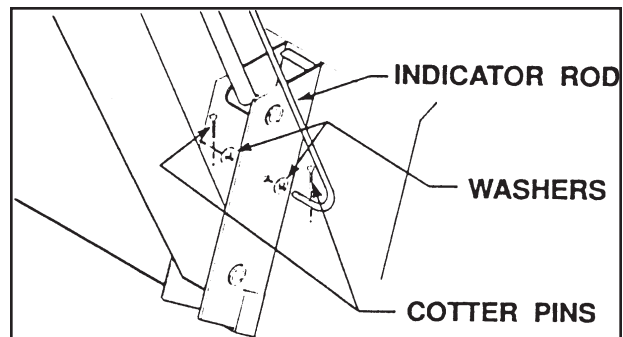
Refer to instructions provided with bucket to attach bucket.

INSTALLING BUCKET LEVEL INDICATOR

1. Attach indicator guide tube to cylinder pin. Guide tube is positioned to outside of boom.



2. Slide bucket level indicator rod through guide tube. Attach other end of rod with 1/8 x 1 cotter pins and 3/8 flat washers.



3. Locate tractor and loader on level surface. With bottom of bucket resting on surface, cut off excess rod flush with end of guide tube or paint exposed rod a contrasting color.

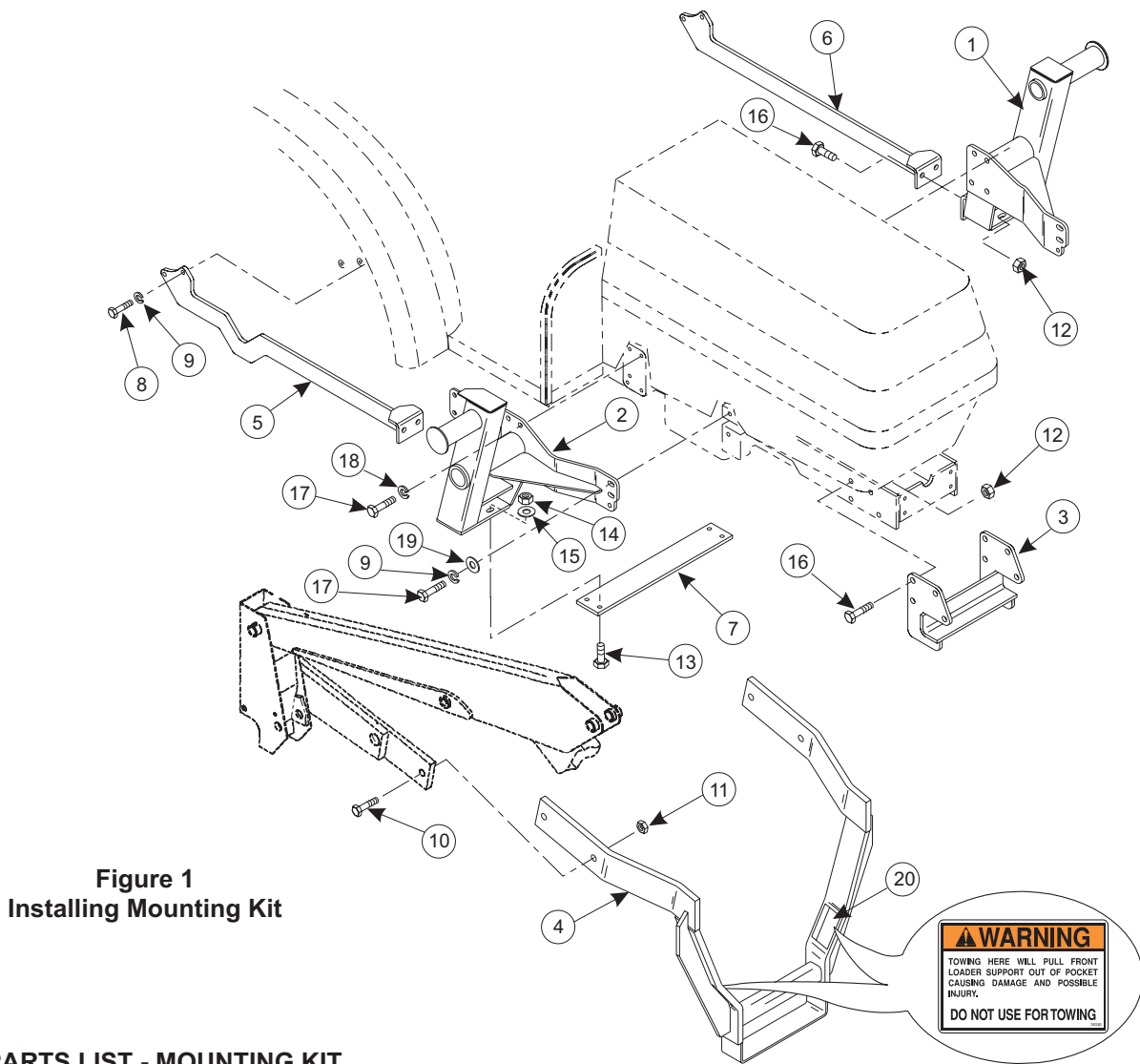








Figure 1
Installing Mounting Kit

PARTS LIST - MOUNTING KIT

ITEM	PART No.	DESCRIPTION	QTY.
1	51023	MID MOUNT, Left	1
2	51022	MID MOUNT, Right	1
3	50366	FRONT MOUNTING	1
4	50365	YOKE ASSEMBLY With Decals	1
5	50386	STRUT ASSEMBLY, Right	1
6	50383	STRUT ASSEMBLY, Left	1
7	50382	CROSS TIE	1
8	42672-24	SCREW, Cap, 12mm-1.25 x 35mm	4
9	41837-5	WASHER, Lock, 1/2	4
10	41838-7	SCREW, Cap, 3/4-10 x 2-1/2	4
11	41840-8	NUT, Lock, 3/4-10	4
12	41840-7	NUT, Lock, 5/8-11	12
13	41838-33	SCREW, Cap, 1/2-13 x 1-1/2	4
14	41840-5	NUT, Lock, 1/2-13	4
15	42502-30	WASHER, Flat, 1/2	4
16	41838-29	SCREW, Cap, 5/8-11 x 1-1/2	12
17	42672-48	SCREW, Cap, 14mm-1.50 x 35mm	14
18	41837-6	WASHER, Lock, 9/16	14
19	42502-31	WASHER, Flat, 9/16	4
20	39240	DECAL, Warning	2

GENERAL TORQUE SPECIFICATIONS

USE THE FOLLOWING TORQUES WHEN SPECIAL TORQUES ARE NOT GIVEN

AMERICAN STANDARD CAP SCREWS										METRIC CAP SCREWS									
SAE Grade	5				8				Metric Class	8.8				10.9					
										 				 					
Cap Screw	TORQUE				TORQUE				Cap Screw	TORQUE				TORQUE					
Size	FT-LBS		Nm		FT-LBS		Nm		Size	FT-LBS		Nm		FT-LBS		Nm			
Inches	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	Millimeters	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX		
1/4-20	6.25	7.25	8.5	10	8.25	9.5	11	13	M6x100	6	8	8	11	9	11	12	15		
1/4-28	8	9	11	12	10.5	12	14	16	M8 x 1.25	16	20	215	27	23	27	31	36.5		
5/16 - 18	14	15	19	20	18.5	20	25	27	M10 x 1.50	29	35	39	47	42	52	57	70		
5/16 - 24	17.5	19	23	26	23	25	31	34	M12 x 1.75	52	62	70	84	75	91	102	123		
3/8 - 16	26	28	35	38	35	37	47.5	50	M14 x 2.00	85	103	115	139	120	146	163	198		
3/8 - 24	31	34	42	46	41	45	55.5	61	M16 x 2.50	130	158	176	214	176	216	238	293		
7/16 - 14	41	45	55.5	61	55	60	74.5	81	M18 x 2.50	172	210	233	284	240	294	325	398		
7/16 - 20	51	55	69	74.5	68	75	92	102	M20 x 2.50	247	301	335	408	343	426	465	577		
1/2 - 13	65	72	88	97.5	86	96	116	130	M22 x 2.50	332	404	450	547	472	576	639	780		
1/2 - 20	76	84	103	114	102	112	138	152	M24 x 3.00	423	517	573	700	599	732	812	992		
9/16 - 12	95	105	129	142	127	140	172	190	M27 x 3.00	637	779	863	1055	898	1098	1217	1488		
9/16 - 18	111	123	150	167	148	164	200	222	M30 x 3.00	872	1066	1181	1444	1224	1496	1658	2027		
5/8 - 11	126	139	171	188	168	185	228	251	<p>NOTE: These values apply to fasteners as received from the supplier, dry or when lubricated with normal engine oil. They do not apply if special graphite or molydisulphide greases or other extreme pressure lubricants are used.</p>										
5/8 - 18	152	168	206	228	203	224	275	304											
3/4 - 10	238	262	322	355	318	350	431	474											
3/4 - 16	274	305	371	409	365	402	495	544											
7/8 - 9	350	386	474	523	466	515	631	698											
7/8 -14	407	448	551	607	543	597	736	809											
1 - 8	537	592	728	802	716	790	970	1070											
1 - 14	670	740	908	1003	894	987	1211	1337											

INSTALLATION INSTRUCTIONS