

Keep With Operator's Manual

**LOADER MOUNTING KIT
NEW HOLLAND 7309
SMC 2491
NEW HOLLAND TRACTORS**

MODEL	2WD	FWA	VERTICAL EXHAUST	SOFT CAB
3415	X		X	X
2120 SN UV32236 AND HIGHER		X	X	X

Mounting brackets can be installed using tools ordinarily available. Check tire clearances once loader is installed and adjust tread width if necessary. Shut off tractor engine and engage tractor brakes during installation.

NOTE: Leave all attaching hardware loose until mounting brackets and subframes are completely assembled to facilitate assembly and proper alignment. Tighten all hardware to torque specifications in loader operators manual.

NOTE: If installing optional grille guard (715825001), install grille guard and front mounting bracket at the same time.

INSTALLING MOUNTING BRACKETS AND SUBFRAMES (Figure 1)

1. Install front mounting bracket (1) using 1/2 x 2 cap screws (10) and 1/2 lock nuts (13).

NOTE: If installing grille guard with mounting kit, use spacer washers provided with grille guard. Refer to 715825001.

NOTE: If tractor is equipped with front weights, they must be removed at this time.

2. Remove four 16mm cap screws securing valve bracket (A) to mounting pad on right side of tractor. Remove five 14mm cap screws from rear of tractor frame both sides (Figure 1).
3. With valve bracket sandwiched between, fasten right mid mounting bracket (2) to tractor casting using 16mm x 50mm cap screws (6) and 5/8 lock washers (15) in rear four holes and 14mm x 55mm cap screws (5) and 9/16 lock washers (14) in five frame holes.
4. Fasten left mid mounting bracket (3) and spacer plate (7) to tractor casting using 16mm x 45mm cap screws (6) and 5/8 lock washers (15) in rear four holes and 14mm x 55mm cap screws (5) and 9/16 lock washers (14) in five frame holes.
5. Attach subframe assemblies (17 & 18) to midmounting brackets (2 & 3) and mounting ears on rear axle housing with 5/8-11 x 1-3/4 cap screws (19) and 5/8 lock nuts (20).

NOTE: Tighten and torque hardware to specifications found on torque chart on page 7.

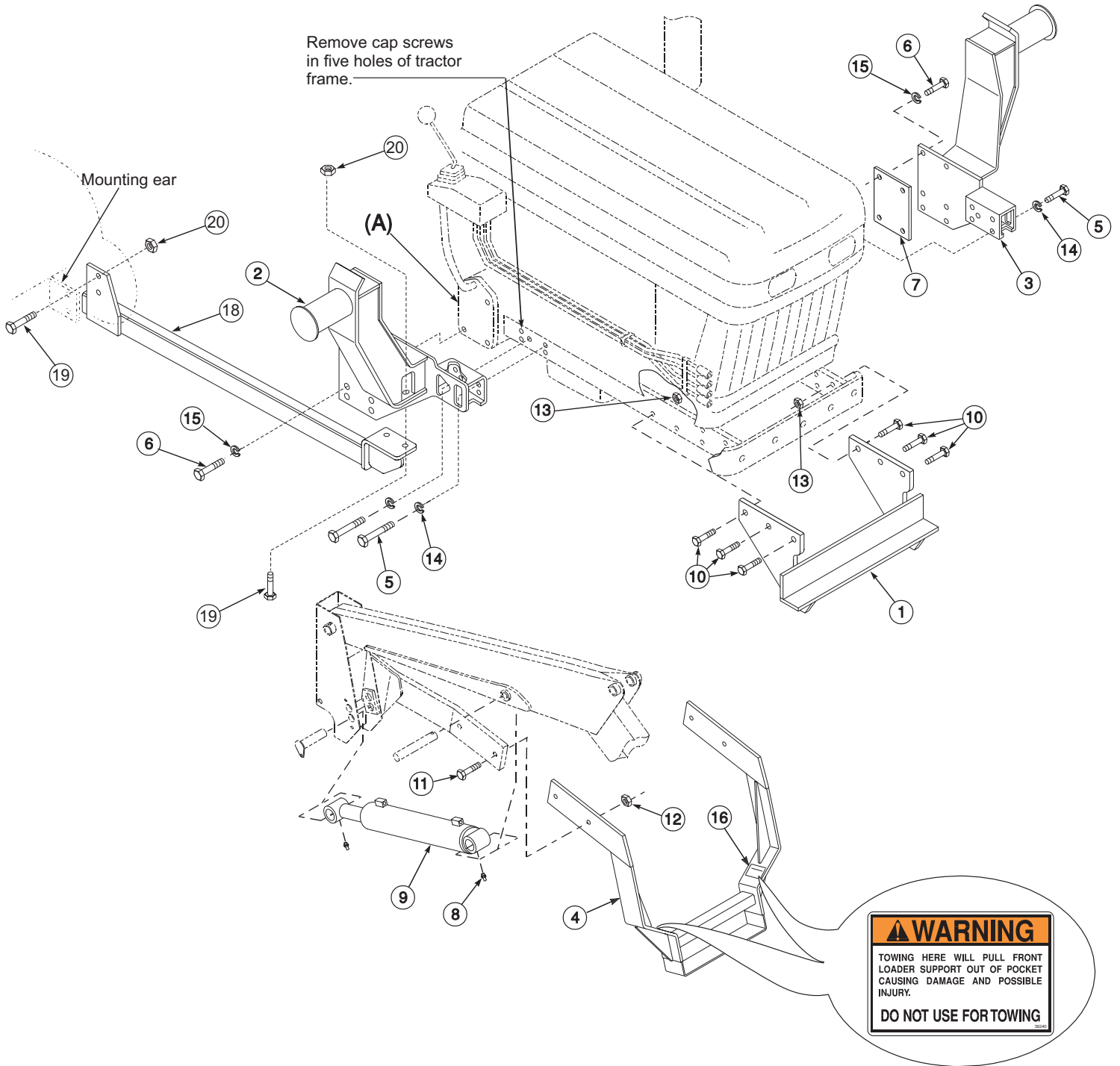
2-6776
2-6969

715789006
715789016

PARTS LIST - MOUNTING KIT

ITEM	SMC NO.	CNH NO.	DESCRIPTION	QTY.
1	43610	SML43610	BRACKET, Front Mounting	1
2	48455-2	SML484552	BRACKET, Midmounting, Right	1
3	48455-1	SML484551	BRACKET, Midmounting, Left	1
4	43309	SML4339	YOKE Assembly with Decals	1
5	6090-111	SML6090111	SCREW, Cap, Metric, 14mm - 1.5mm x 55mm	10
6	6090-14	120090	SCREW, Cap, Metric, 16mm - 2mm x 50mm	8
7	43124	SML43124	SPACER, Flat	1
8	6075-4	PL	FITTING, Grease, 1/4-28, Straight	4
9	43129	SML43129	CYLINDER, Lift, (Code JX) 2-3/8	2
10	G180181	9706716	SCREW, Cap, 1/2-13 x 2	6
11	G271773	9706701	SCREW, Cap, 3/4-10 x 2-1/2	4
12	G9414076	9626598	NUT, Lock, 3/4-10	4
13	G9414074	9636698	NUT, Lock, 1/2-13	6
14	G120898	280248	WASHER, Lock, 9/16	10
15	G121574	84057	WASHER, Lock, 5/8	8
16	39240	SML39240	DECAL, "WARNING, Do Not Use For Towing"	2
17	48929-1	SML489291	SUBFRAME Assembly, Left (not shown)	1
18	48929-2	SML489292	SUBFRAME Assembly, Right	1
19	G271548	9627896	SCREW, Cap, 5/8-11 x 1-3/4	8
20	G9414075	19670	NUT, Lock, 5/8-11	8

Figure 1
Mount Kit Assembly



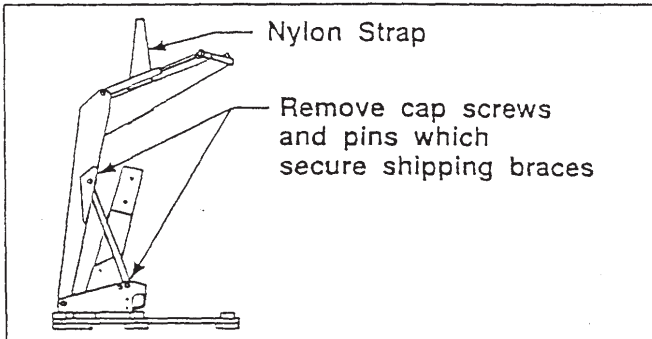
INSTALLING LIFT CYLINDERS

1. Install grease fittings (8) to base and rod ends of lift cylinders (9) with fittings pointing down.



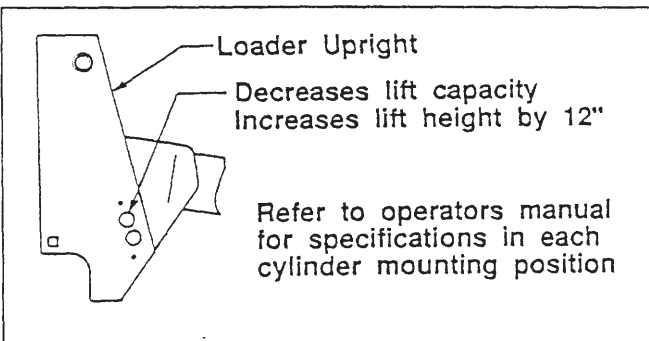
WARNING: Be sure to support loader using an overhead hoist. Installed lift cylinders will not support loader in upright position. Boom may fall causing serious personal injury.

2. Loop nylon strap around center of boom crossmember. Using overhead hoist to support loader, remove cap screws and pins which secure shipping braces.



3. Install lift cylinders (9), with base end toward boom and hydraulic ports toward top, using hardware previously removed. **See chart for optional cylinder placement.**

NOTE: Pin rod end into loader upright first, then pin base end into loader boom.



4. Disconnect lift cylinder hoses one at a time from steel oil lines to avoid error when reconnecting.

NOTE: Lift cylinder hoses must be free to turn while they are being connected to lift cylinders.

5. Connect hoses to lift cylinders. Reconnect hoses to steel oil lines. Make sure hoses are routed beside lift

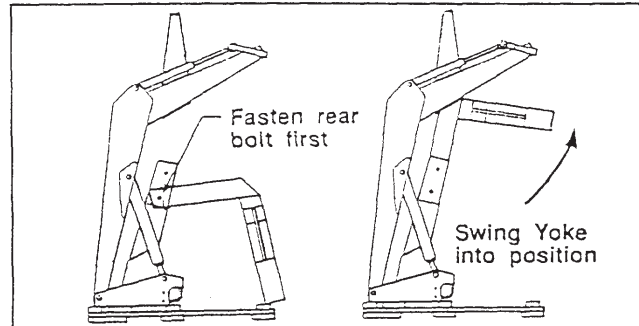
cylinder base end port to prevent crushing during loader operation.



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. Install yoke assembly (4) using 3/4 x 2-1/2 cap



screws (11) and 3/4 lock nuts (12). Install rear cap screws first and swing yoke into position, then install front cap screws.

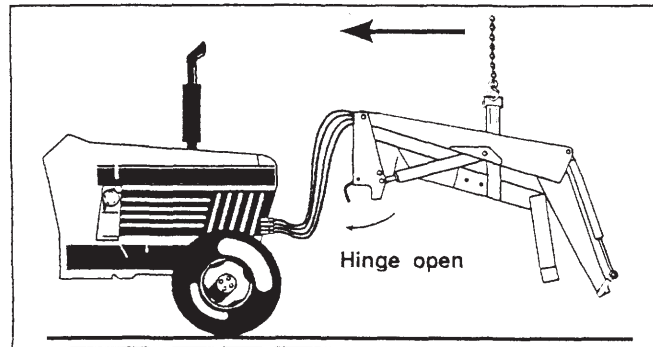
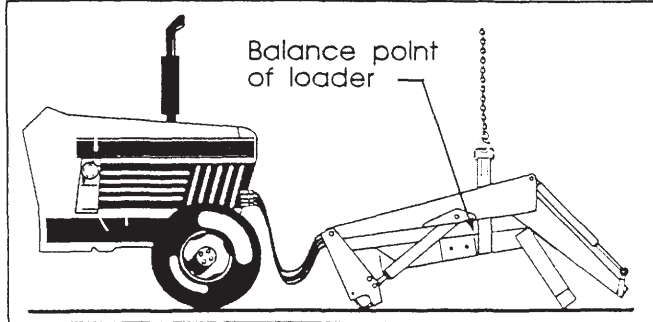
NOTE: Hardware connecting yoke to loader side-frames should be snug but do not torque completely. After loader has been mounted to tractor and aligned with midmounting brackets and front mounting brackets, torque hardware to 239-262 ft. lb.

2. Remove hardware securing loader to pallet. Using overhead hoist, lower loader from vertical shipping position to horizontal position (scraps of cardboard may be used to protect paint).
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. Shut off tractor engine and engage tractor brakes. Route hoses loosely to allow maximum reach. Reposition overhead hoist by loop-

ing nylon straps around yoke near loader side frames at balance point of loader.

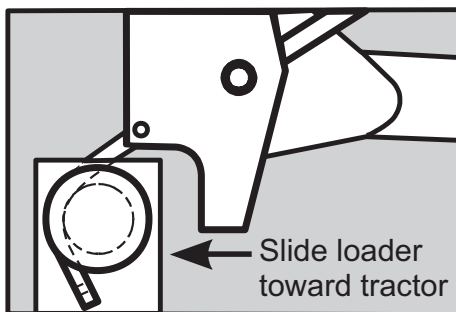
INSTALLING LOADER TO MOUNTING BRACKETS (Continued)

- Using overhead hoist, raise loader until side frame uprights will clear front tires. Remove lock nut and washer from loader hinge and swing each hinge open.



- Position loader so hinges hook over mid mounting tubes and yoke tube fits inside front mounting bracket.

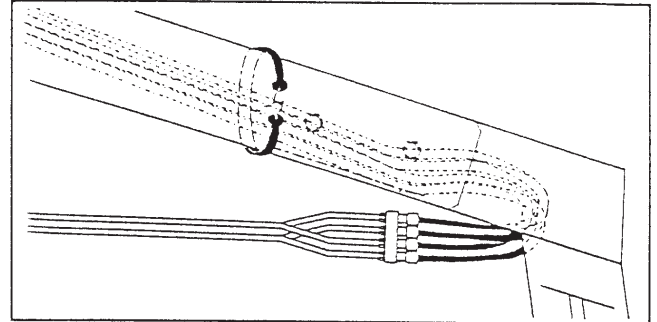
NOTE: To allow yoke to engage front mounting, mid mounting tube must be holding loader hinges completely open. then slide loader toward tractor until loader is seated against mid mounting tubes.



- Clamp hinges to midmounting tubes with 3/4 flat washers and 3/4 flex-lock nuts (supplied with loader).

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.

- Secure hoses behind loader side frame and yoke using rubber strap.



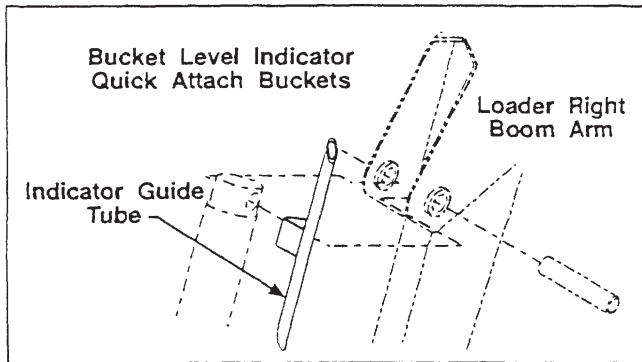
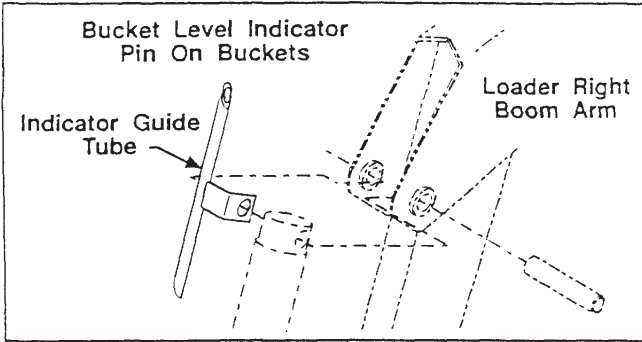
- Adjust front wheel tread settings or steering stops, if necessary to prevent interference between tires and loader. Refer to tractor operator's manual for adjustment procedures.

INSTALLING BUCKET OR OPTIONAL ATTACHMENT

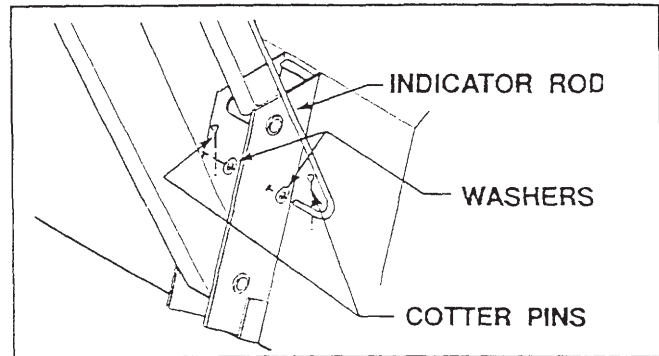
Refer to loader operator's manual or optional attachment assembly instructions for procedures on installing bucket or optional attachment.

INSTALLING BUCKET LEVEL INDICATOR

1. Attach indicator guide tube to cylinder pin. Guide tube is positioned to outside of boom for pin on attachments and inside of boom when quick attach device is used.









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. If pin on bucket is used, attach lower end of rod to bucket ear. If quick attach device is used, attach lower end of rod to quick attach device.



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.

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	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