

Keep With Operator's Manual

LOADER MOUNT KIT 6212 LOADER NEW HOLLAND TM SERIES & CIH MXM SERIES TRACTORS

MODEL	FWD	FWD with Terraglide™	FWD with Suspended Axle	2WD
TM130	X	X		X
TM140	X	X		X
TM155	X	X		X
TM175	X	X		X
TM190	X	X		X
MXM130	X		X	X
MXM140	X		X	X
MXM155	X		X	X
MXM175	X		X	X
MXM190	X		X	X

TRACTOR & LOADER GENERAL INFORMATION

Mounting kit can be installed using tools ordinarily available.

Tractors equipped with mid-mount valves require hydraulic plumbing kit 2-6957 or 2-6959.

Check front tire and fender clearances once loader is installed and adjust tire track width as necessary.

FWD tractors are equipped with front axle oscillation stops and must be used with loader installation.

Tractor steering stops may have to be adjusted to provide clearance between front tire, fender, tractor hood and loader on full left and right turn with front axle fully oscillated. Be sure lift cylinders are fully retracted when checking tire and fender clearances. Refer to tractor operator's manual for steering stop adjustment.

PREPARING TRACTOR

Shut off engine and engage brakes and remove key during installation.

If tractor is equipped with front weights, they must be removed, see tractor operator's manual for removal instructions. The weight bracket can remain.

If Terraglide™ or suspended axle tractors are equipped, with engine side rails they must be removed. DO NOT reuse hardware for loader mount installation.

NOTE: *Paint touch-up may be required on side of tractor front castings after loader mountings have been installed.*

Reference to left and right in these illustrations refer to position when seated in the operating position on tractor.

If equipped, radar gun and mounting bracket must be removed, to be relocated later (See figure 3, page 4).

Remove tool box and mounting bracket.

Tractors equipped with two fuel tanks must have fuel removed to install loader mounting.

INSTALLING MID-MOUNTS (Figure 1)

NOTE: *Loosely install hardware (unless noted differently in instructions) until mounting kit is completely assembled to facilitate assembly and proper alignment. All mounting hardware will be torqued later.*



WARNING: *Front window of cab is very vulnerable to breakage when installing mid-mount assemblies. Steps should be taken to protect glass when attaching mid-mounts.*

LEFT HAND FUEL TANK REMOVAL

NOTE: Tractors equipped with two fuel tanks must have fuel removed.

1. Remove fuel tank front and rear support straps and foot steps.
2. Disconnect fuel sensors and lines. Mark each for re-assembly.
3. Loosen and disconnect front and rear breather lines by removing hose clamps.
4. If tractor is equipped with auxiliary right hand fuel tank, disconnect transfer tube from left tank.
5. Remove tank.

AUXILIARY RIGHT HAND FUEL TANK REMOVAL

1. Repeat procedure for left hand fuel tank removal above.

INSTALLING LEFT MID-MOUNT (Figure 1)

1. Raise left mid mount (1) with overhead hoist, and loosely attach to transmission housing with four 20mm x 70mm caps screws (8), 20mm disc spring washers (10) and one 3/4 inch flat washer (11) used over lower rear slot on mounting, and loosely attach to front casting using four 20mm x 65mm cap screw (7), 3/4 inch flat washers (11), and 20mm disc spring washers (10). To assist with positioning mount, start cap screw (8) in lower rear hole on transmission casting. Mounting can be positioned on cap screw (8) and rotated into place.

IMPORTANT: Flat washers are installed over slotted surface on mounting, then disc spring washers are installed on top with serrated surface facing bolt head. Torque 20mm bolts to 426 ft. lbs (550 N•M).

INSTALLING RIGHT MID-MOUNT (Figure 1)

NOTE: If tractor is equipped with a radar gun, the radar mounting bracket is installed over midmounting at lower two holes in transmission housing. Use the spacer plate in place of the radar gun bracket if tractor is not equipped with a radar gun.

1. Raise right mid mount (2) with overhead hoist, and loosely attach to the transmission housing. Use two 20mm x 70mm capscrews (8) and two 20mm disc spring washers (10) to secure midmount to the top two holes. Use two 20mm x 70mm cap screws (9) and two 20mm disc spring washers to secure mounting (2) and radar bracket (6) or spacer plate (5) to the bottom two holes of the transmission casting. Secure mounting (2) to the front casting with four 20mm x 65mm cap screws (7), 20mm disc spring washers (10), and 3/4 flat washers (11). To assist with positioning mount, start cap screw (9) in lower rear hole in transmission casting. Mounting can be positioned onto cap screw (9) and rotated into place.

NOTE: On 2WD tractors do not install flat washer (11) on lower front cap screw (7) which attaches to front tractor casting on right side of tractor. Interference could occur with tractor power steering cylinder.

IMPORTANT: Flat washers are installed over slotted surface on mounting, then disc spring washers are installed on top with serrated surface facing bolt head. Torque 20mm bolts to 426 ft. lbs (550 N•M).

IMPORTANT: For ease of installation, mid-mount loader valve kits, if required, loader hydraulic control package, and radar gun (if equipped - Refer to figure 3) should be installed prior to reinstallation of right hand fuel tank.

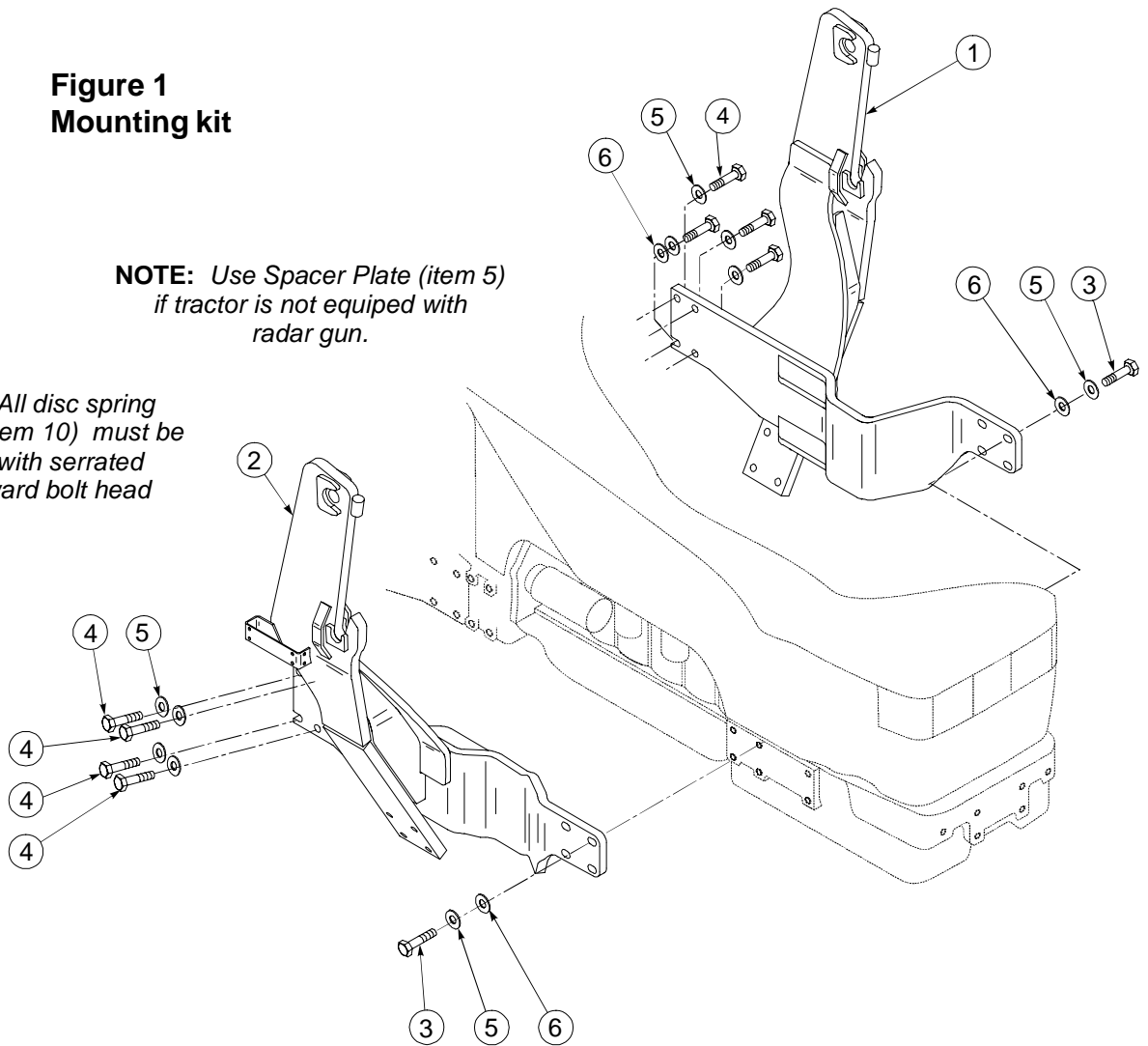
FUEL TANK REINSTALLATION

1. Reverse tank removal procedure.

Figure 1
Mounting kit

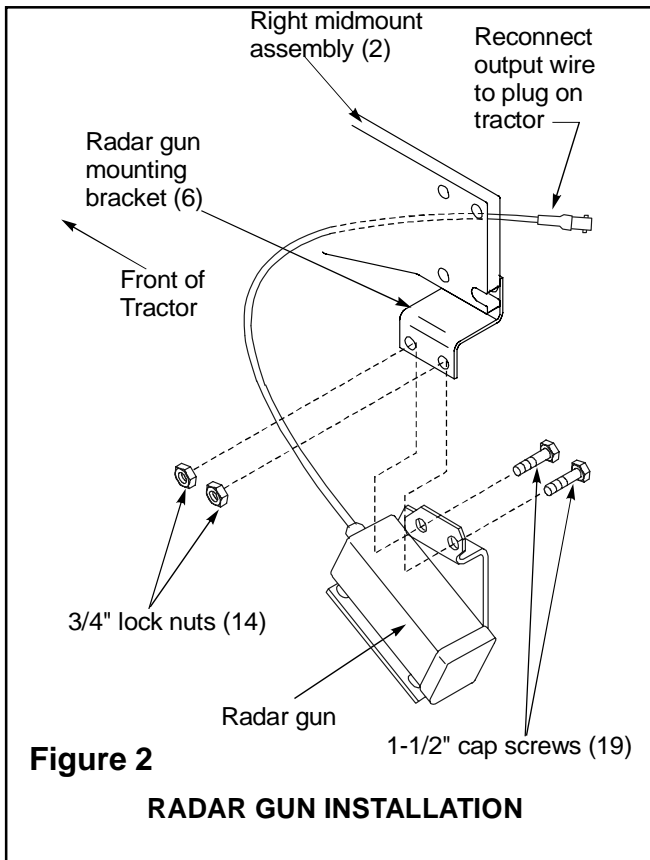
NOTE: Use Spacer Plate (item 5)
if tractor is not equipped with
radar gun.

NOTE: All disc spring
washers(item 10) must be
placed with serrated
side toward bolt head



PARTS LIST - MOUNTING KIT (Figure 1)

Item	Part No.	Discription	Qty.
1	53275	MID MOUNTING ASSEMBLY, LEFT	1
2	53276	MID MOUNTING ASSEMBLY, RIGHT	1
3	49040-2	HHCS,YDP 20MM-2.5 x 65MM CL10.9	8
4	49040-3	HHCS,YDP 20MM-2.5 x 70MM CL10.9	8
5	48093-2	LOCK WASHER,YDP METRIC 20MM	16
6	42502-33	WASHER FLAT YDP 3/4 W-STD	10



RADAR GUN (If equipped) Figure 2)

On Terra-Glide and suspended axle tractor only, remove two Terra-Glide or suspended axle hydraulic hose clamps on right side near loader mount.

Install Radar Gun to radar gun bracket (6) with two 3/4 x 1-1/2 cap screws (19) and 3/4-10 lock nuts (14) as illustrated in figure 3. On Terra-Glide or suspended axle tractor only, use tie straps supplied in mount kit to secure Terra-Glide or suspended axle hydraulic hoses.

GRILLE GUARD

If Grille Guard is required, install before mounting loader.

MOUNTING 6212 LOADER (Figures 3-7)



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



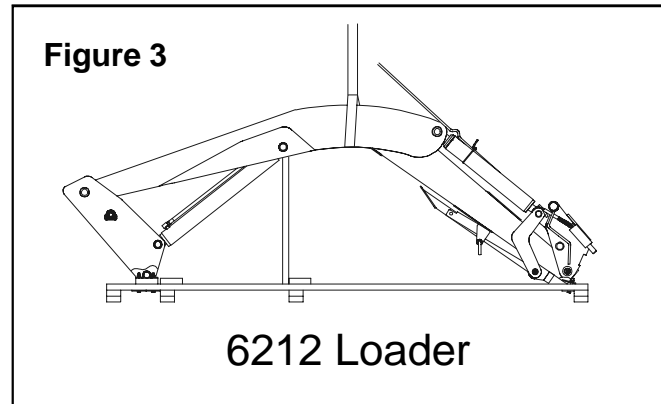
WARNING: To avoid injury during installation of quick attach loader, an overhead hoist must be used for initial mounting. Parking stands are not operational without the attachment mounted.

1. Using overhead hoist with nylon sling, lift loader at balance point (Figure 4). Remove hardware which secures loader to pallet. Remove lynch pins and hitch pins from loader uprights (Figure 6).

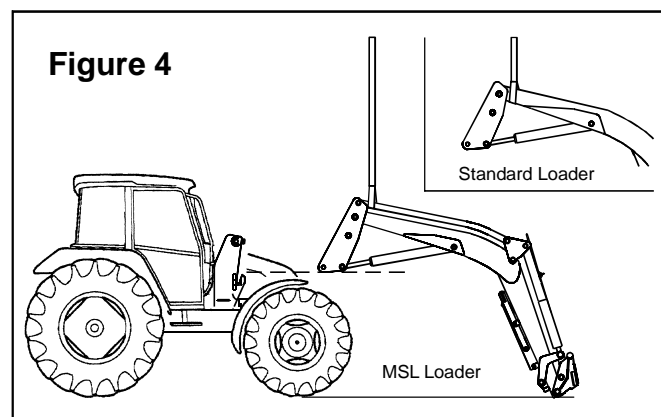


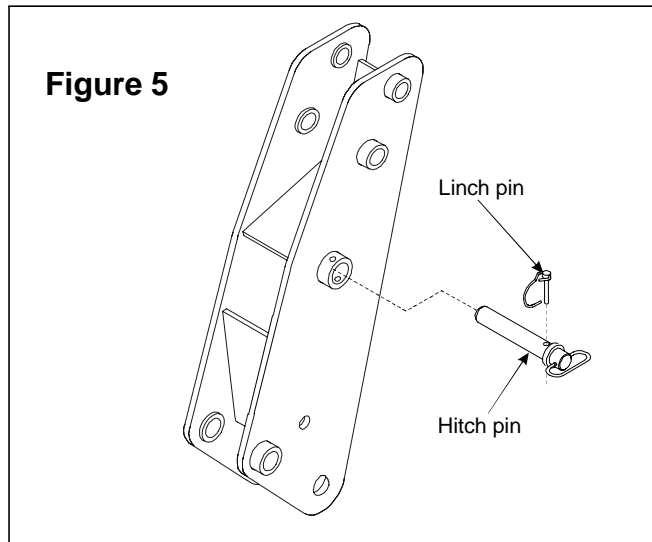
WARNING: Loader uprights may rotate downward when loader is lifted from pallet.

Raise loader from shipping position and remove pallet, lower loader (scraps of cardboard may be used to protect paint).



3. Install hydraulic plumbing on loader and tractor. Tractors equipped with mid-mount valves require hydraulic plumbing kit 2-6957 or 2-7490. Tractors using rear remotes require plumbing kit 2-6958 and (2) detent removal kits, for loader operation. Follow instruction sheets provided with kits for installation.
4. Secure a hoist strap around the boom arm assembly or secure with a chain hook into hole provided in underside of boom arm. If using a strap, the strap should be located around the boom arm in about the same location (See figure 4).



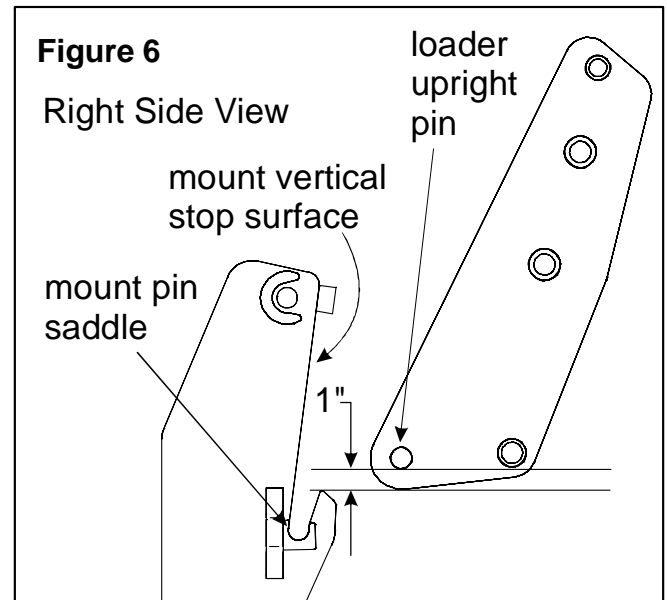


Slowly raise loader with overhead hoist until loader upright will clear tractor tires or fenders (See figure 5).

5. Drive tractor into loader until mounts and loader uprights are 10" to 14" apart. Shut off engine. Attach lift cylinder function hoses (color coded green and yellow) to corresponding tractor couplers.
NOTE: Route hoses under tractor exhaust.

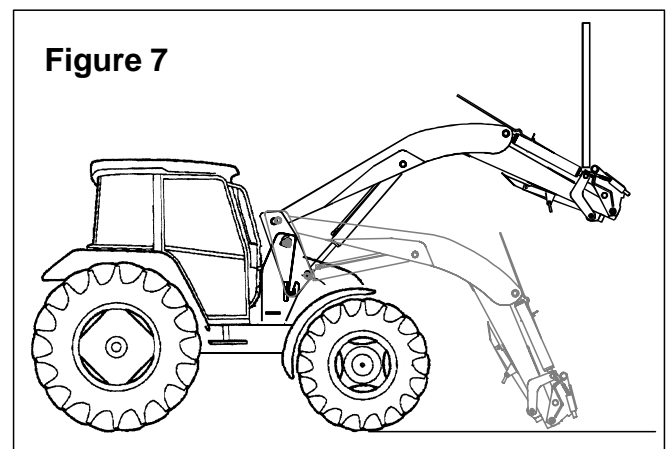
NOTE: Important to attach lift cylinder hoses (yellow and green spiral band coded) for loader to function properly.

6. Start engine. Retract lift cylinders fully and continue to activate control lever for approximately 10 seconds. Cycle cylinders several times to remove air. Extend lift cylinders 10" to 12" from the fully closed position. Shut off engine, set parking brake and remove key.
7. With overhead hoist, position loader upright pin to clear mount pin saddle by 1" (see figure 6). Move tractor forward until both loader upright pins come to rest against the flat vertical stop surface of both mounts. Lower loader with overhead hoist until both loader upright pins rest into mount pin saddles.



8. Remove hoist chain or strap from loader boom and secure to quick attach assembly. Using overhead hoist raise front of loader to rotate loader upright into upper mount saddle (Refer to Figure 7). Continue to rotate loader upright until upright has fully seated into back of mount saddle. Insert two 1-1/2 x 8" pins and linch pins which were removed from loader uprights in step 1. Remove hoist chain or strap from loader boom.

NOTE: In some cases a small amount of additional force may be required to insert the pins.



9. Attach tilt cylinder function hoses (color coded blue and red) to corresponding tractor couplers.

INSTALLING BUCKET OR ATTACHMENT

Refer to loader operator's manual to install bucket or optional attachments.



WARNING: Always have an attachment mounted to loader when it is removed from tractor.

ADJUST BUCKET LEVEL INDICATOR

Refer to instruction sheet and assembly manual with bucket or optional attachments.

10. Start engine and slowly cycle all cylinders several times with full strokes to purge air from hydraulic system. Replenish hydraulic system using recommended tractor hydraulic oil.

11. Adjust front wheel tread settings or steering stops, if necessary, to provide a minimum 3/4 inch clearance between front tires and any part of loader with lift cylinders fully retracted and front axle fully oscillated. Be sure lift cylinders are fully retracted. Refer to page 1 under preparing tractor. Refer to tractor operator's manual for tread setting and steering stop adjustment procedures.

SAFETY DECALS







NOTE: Loader safety decals are at locations listed below each decal part number. Replace decals if they are damaged or illegible. Replacement decals are available from your dealer.



GENERAL TORQUE SPECIFICATIONS

USE THE FOLLOWING TORQUES WHEN SPECIAL TORQUES ARE NOT GIVEN

Standard American and Metric Cap Screws

AMERICAN STANDARD CAP SCREWS									METRIC CAP SCREWS								
SAE Grade	5				8				Metric Class	8.8				10.9			
Typ. Head Markings									Typ. Head Markings	 				 			
Cap Screw	TORQUE				TORQUE				Cap Screw	TORQUE				TORQUE			
Size	FT·LBS		N·m		FT·LBS		N·m		Size	FT·LBS		N·m		FT·LBS		N·m	
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	M6 x 1.00	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	21.5	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	NOTE: These values apply to fasteners as received from supplier, dry or when lubricated with normal engine oil. They do not apply if special graphite or molybdenum greases or other extreme lubricants are used.								
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