

Keep With Operator's Manual

BACKHOE SUBFRAME KIT 60C & 65A BACKHOE MASSEY FERGUSON TRACTORS

MODEL	2WD	4WD	LESS CAB	WITH CAB
1205		X	X	
1215		X	X	

INSTALLING MOUNTING KIT (Figure 1)

Mounting kit can be installed using tools ordinarily available.

NOTE: Leave all hardware loose until mounting kit is completely installed to facilitate alignment of parts.

1. Loader mounting 2-6559 or dozer mounting 2-6561 must be installed before starting to install 2-6560.
2. Install left and right front mounting brackets to loader or dozer mid-mounting brackets using four 1/2 x 4 cap screws and 1/2" lock nuts.
3. Remove 3-point arms from rear of tractor. Remove lower two bolts which secure ROPS to rear axle casting. Remove and discard spacers. Remove metric bolts securing rear hitch to rear axle housing. Slide rear mounting assembly into place, replacing spacers removed above with spacers included. Replace hardware removed to remove rear hitch with 12MM-1.75 x 35MM cap screws and 1/2" lock washers included, utilizing rear hitch as a spacer between rear mounting assembly and tractor axle housing.
4. Cut 5-1/2" off each channel assembly to prevent front tire interference.
5. Attach rear tube assembly and front bar assembly to side frame channels from 2-6565 using 8-1/2-13 x 1-1/2 cap screws and lock nuts. Make sure tube and bar are assembled to channels as indicated in figure 1.
6. Slide channel assembly under tractor into rear mounting and pivot up into the front mountings to check kit.
7. Torque all hardware to torque specifications listed in loader operator's manual.

INSTALLING SUBFRAME TO BACKHOE

1. Install subframe (1) to backhoe mainframe using 7/8 x 4 cap screws (10), 7/8 lock washers (8) and 7/8 hex nuts (11) in rear holes and 3/4 x 3-1/2 cap screws (9) and 3/4 lock nuts (8) in front holes.

IMPORTANT: Torque bolts to maximum torque specs as listed on page 4.

2. Install mounting braces (4) to subframe and backhoe mainframe using 3/4 x 2 cap screws (7) and 3/4 lock nuts (8).

60C ONLY: Use support braces 55882 (27) and 55883 (28).

IMPORTANT: Torque bolts to maximum torque specs as listed on page 4.

MOUNTING BACKHOE TO TRACTOR (Figure 1)

1. Back tractor over subframe close enough to connect backhoe hydraulic system. Refer to instruction sheet packed with hydraulic kit to connect hydraulics.
2. Using backhoe hydraulic controls, extend stabilizer, dipper and boom cylinders until rear mounting tube is level with rear mounting bracket and front of subframe level with loader mid mounting tube (Figure 1).
3. Slowly back tractor until subframe is connected to tractor.
4. Secure subframe using clevis pins (5) and hair pin clips (6) (Figure 2).

2-6560**PARTS LIST - BACKHOE SUBFRAME KIT**

Item	Part No.	Description	Qty.
1	46275	BRACKET, Rear Mounting	1
2	46303-1	SPACER BUSHING	4
3	46291-1	BRACKET, Mounting, Front, Left	1
4	46291-2	BRACKET, Mounting, Front, Right	1
5	6090-22	SCREW, Cap, 12MM-1.75 x 35MM	3
6	G120383	WASHER, Lock, 7/16	3
7	G180194	SCREW, Cap, 1/2-13 x 4	4
8	G9414074	NUT, Lock, 1/2-13	12
9	G180177	SCREW, Cap, 1/2-13 x 1-1/2	8
10	46290	REAR TUBE ASSEMBLY	1
11	46296	FRONT BAR ASSEMBLY	1
12	G271777	SCREW, Cap, 3/4-10 x 3-1/2	2
13	G271823	SCREW, Cap, 7/8-9 x 4	2
14	G9414076	NUT, Lock, 3/4-10	2
15	G220087	NUT, Hex, 7/8-9	2
16	G131047	WASHER, Lock	2
17	46298	PIN ASSEMBLY	2
18	44756-1	PIN, Linch	2
27	55882	SUPPORT BRACE, Left	1
28	55883	SUPPORT BRACE, Right	1

PARTS LIST – SUBFRAME CHANNEL KIT – 2-7253 – Order Separately

Item	Part No.	Description	Qty.
19	51195-1	CHANNEL, Subframe, Left	1
20	51195-2	CHANNEL, Subframe, Right	1
21	44836	BAR, Support Brace	2
22	42969-4	SCREW, Cap, 3/4-10 x 2-3/4, Grade 8	4
23	47264-8	NUT, Lock, 3/4-10, Grade C	8
24	G271548	HHCS 5/8 x 1-3/4	2
25	G9414075	HLN 5/8	2
26	49636-2	WASHER, Lock 5/8	2

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	<p>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 moly sulphide greases or other extreme 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									

37° JIC Fittings

Size	Thread Size	Assembly Torque		Tube Connection F. F. F. T.	Swivel Nut or Hose Connection F. F. F. T.
		in.·lb.	ft.·lb.		
-4	7/16 - 20	140 ± 10	12 ± 1	2	2
-5	1/2 - 20	180 ± 15	15 ± 1	2	2
-6	9/16 - 18	250 ± 15	21 ± 1	1 1/2	1 1/4
-8	3/4 - 16	550 ± 25	45 ± 5	1 1/2	1
-12	1 1/16 - 12	1000 ± 50	85 ± 5	1 1/4	1
-16	1 5/16 - 12	1450 ± 50	120 ± 5	1	1
-20	1 5/8 - 12	2000 ± 100	170 ± 10	1	1
-24	1 7/8 - 12	2400 ± 150	200 ± 15	1	1
-32	2 1/2 - 12	3200 ± 200	270 ± 20	1	1

O-Ring Face Seal Tube/ Hose Swivel Nut

Metric Tube O.D. (mm)	Dash Size	Thread Size (in.)	Swivel Nut Hex Size (in.)	Swivel Nut Torque	
				N·m	lb _f ·ft
5	-3	--	--	--	--
6	-4	9/16 - 18	11/16	16	12
8	-5	--	--	--	--
10	-6	11/16 - 16	13/16	24	18
12	-8	13/16 - 16	15/16	50	37
16	-10	1 - 14	1-1/8	69	51
20	-12	1-3/16 - 12	1-3/8	102	75
22	-14	1-3/16 - 12	--	102	75
25	-16	1-7/16 - 12	1-5/8	142	105
32	-20	1-11/16 - 12	1-7/8	190	140
38	-24	2 - 12	2-1/4	217	160
50.8	-32	--	--	--	--

SAE O-Ring Fittings

Size	Swivel Nut or Hose	Assembly Torque		F. F. F. T.
		in.·lb.	ft.·lb.	
2	5/16 - 24	90 ± 5	7.5 ± 0.5	1 ± .25
3	3/8 - 24	170 ± 10	14 ± 1	1 ± .25
4	7/16 - 20	220 ± 15	18 ± 1	1 ± .25
5	1/2 - 20	260 ± 15	22 ± 1	1 ± .25
6	9/16 - 18	320 ± 20	27 ± 2	1.5 ± .25
8	3/4 - 16	570 ± 25	48 ± 2	1.5 ± .25
10	7/8 - 14	1060 ± 50	90 ± 5	1.5 ± .25
12	1 1/16 - 12	1300 ± 50	110 ± 5	1.5 ± .25
14	1 3/16 - 12	1750 ± 75	145 ± 6	1.5 ± .25
16	1 5/16 - 12	1920 ± 125	160 ± 6	1.5 ± .25
20	1 5/8 - 12	2700 ± 150	225 ± 12	1.5 ± .25
24	1 7/8 - 12	3000 ± 150	250 ± 12	1.5 ± .25
32	2 1/2 - 12	3900 ± 200	325 ± 15	1.5 ± .25

INSTALLATION INSTRUCTIONS