

65A, 75 & 85 BACKHOE HOSE KIT AGCO & MASSEY FERGUSON TRACTORS WITH AUXILIARY VALVE & JOYSTICK

AGCO	MASSEY FERGUSON	CAB	ROPS	LOADER WITH AUXILIARY VALVE AND JOYSTICK
ST34A	MF1533		X	Alamo SMC or Rhino 2408TL Loader with Parallel Valve
ST41A	MF1540	N/A	X	

TRACTOR AND MOUNTING KIT GENERAL INFORMATION

Hose kit can be installed on tractor using tools ordinarily available. Shut off engine and engage brakes during installation.

NOTE: Tractor must be equipped with an AGCO / Massey Ferguson auxiliary valve and joystick to install this hose kit. Tractor must be equipped with an Alamo/SMC or Rhino 2408TL loader or front weight for counterweight. Install loader mounting brackets and loader control valve and plumbing kit before installing backhoe hose kit.

INSTALLING HYDRAULIC HOSE AND FITTINGS TO HYDRAULIC ADAPTER BLOCK (Figures 1 & 2)

- Place a clean container to catch excess hydraulic oil under ports located behind right rear tire. Support rear axle and remove right rear tire. Remove hydraulic access panel from inner wheel well.
- Remove allen head plugs from pressure and power beyond ports on valve.
- Install 90° elbow (13) into pressure and power beyond ports and face toward rear of tractor.
- Remove 18mm plug located above power beyond port and install diverter plug with o-ring (10).
- Remove tank plug located left of the valve and install 1/2-14 straight fitting (11). Install 90° elbow (12) to straight fitting (11).
- Install 3/8 x 24" hose (4) to 90° fitting (13) on power beyond port. Slide 24" sleeve (9) over hose (4) and install 3/8 male coupler (14) and dust cap (18). Route hose (4) over axle and face toward backhoe for ease in coupling.
- Install 3/8 x 42" hose (3) to 90° fitting (13) on pressure port. Slide 42" sleeve (8) over hose (3) and install 3/8 female coupler (15). Route hose (3) over axle and face toward backhoe for ease in coupling.
- Install 1/2 x 48" hose (5) to 90° elbow (12) on tank port. Slide 48" sleeve (6) over hose (5) and install 1/2" male coupler (16) and dust cap (20). Route

hose (5) over axle and face towards backhoe for ease in coupling.

- Bundle hoses (3, 4, & 5) together with tie straps (21) and secure to tractor.
- Remove backhoe cover plate.
- Install 3/8 x 48" hose (1) onto inlet port of backhoe. Slip 48" sleeve (6) over hose (1) and install 3/8" male coupler (14) and dust cap (18).
- Install 1/2 x 60" hose (2) onto tank port of backhoe. Slip 60" sleeve (7) over hose (2) and install 1/2" female coupler (17) and dust plug (19).
- Reinstall access panel and tire making sure hoses are not pinched.
- Check and refill hydraulic oil, if necessary.

MOUNTING BACKHOE TO TRACTOR



WARNING: To prevent possible damage to hoses and backhoe valve, always shut off tractor engine when coupling or uncoupling hoses from backhoe. Make sure connections are complete at couplers before starting tractor engine.

- Adjust 3-point hitch arms to level position. Back tractor slowly towards backhoe, parallel to subframe assembly until hoses can be connected. Shut off tractor.
- Connect 1/2 x 60" tank hose (2) to 1/2 x 48" tractor return hose (5). Connect 3/8 x 48" pressure hose (1) to 3/8 x 42" pressure hose (3).

NOTE: To complete hydraulic circuit when backhoe is removed, connect 24" hose (4) to 42" hose (3).

- Using backhoe controls, extend bucket and lower stabilizers to provide a base for raising subframe. Using backhoe controls, raise subframe to proper height to connect to tractor.
- Slowly back tractor until subframe is engaged in rear mounting bracket and front mounting brackets.

(Continued on page 2)

MOUNTING BACKHOE TO TRACTOR

(Continued from page 1)

NOTE: Check to be sure hoses are not pinched between tractor and subframe.

Connect subframe to front mounting brackets using pins provided in subframe kit.

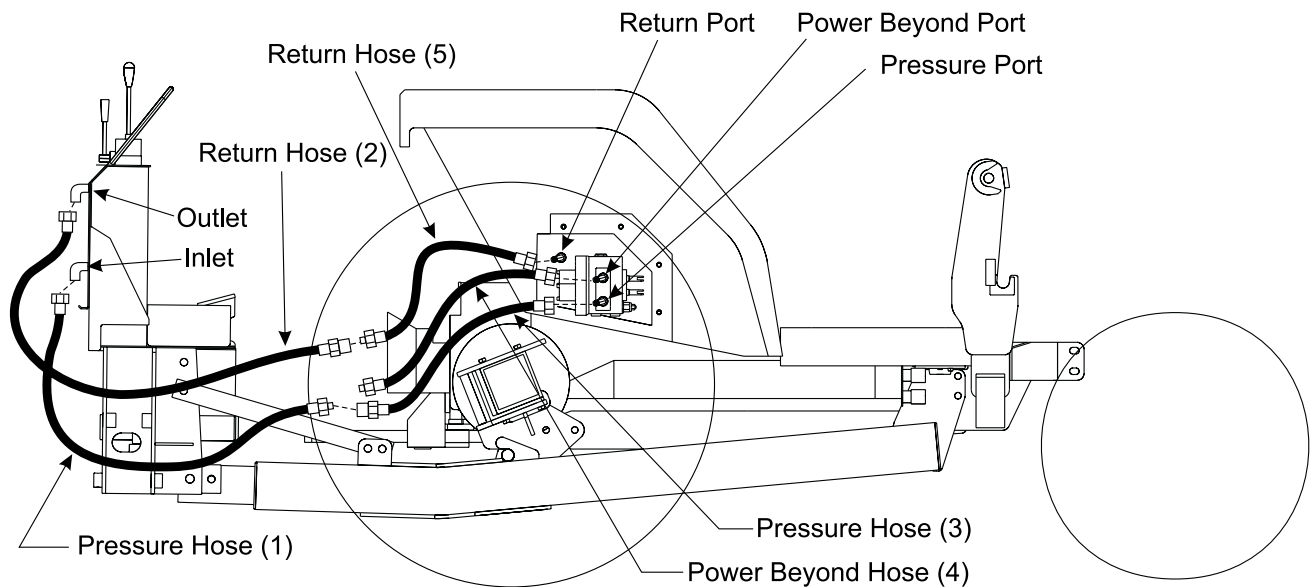
5. Secure pressure, tank, and power beyond hoses leading from valve to backhoe subframe using tarp strap (19).
6. After backhoe has been mounted to tractor, check all hydraulic connections. Slowly cycle backhoe cylinders several times to purge air from hydraulic system. Retract cylinders and shut off engine. Replenish tractor hydraulic system.



WARNING: Escaping hydraulic fluid under pressure can penetrate skin causing serious injury.

- **DO NOT** use your hands to check for leaks. Use a piece of cardboard or paper to search for leaks.
- Stop engine and relieve pressure before connecting or disconnecting lines.
- Tighten all connections before starting engine or pressurizing lines.
- If any fluid is injected into skin obtain medical attention immediately or gangrene may result.

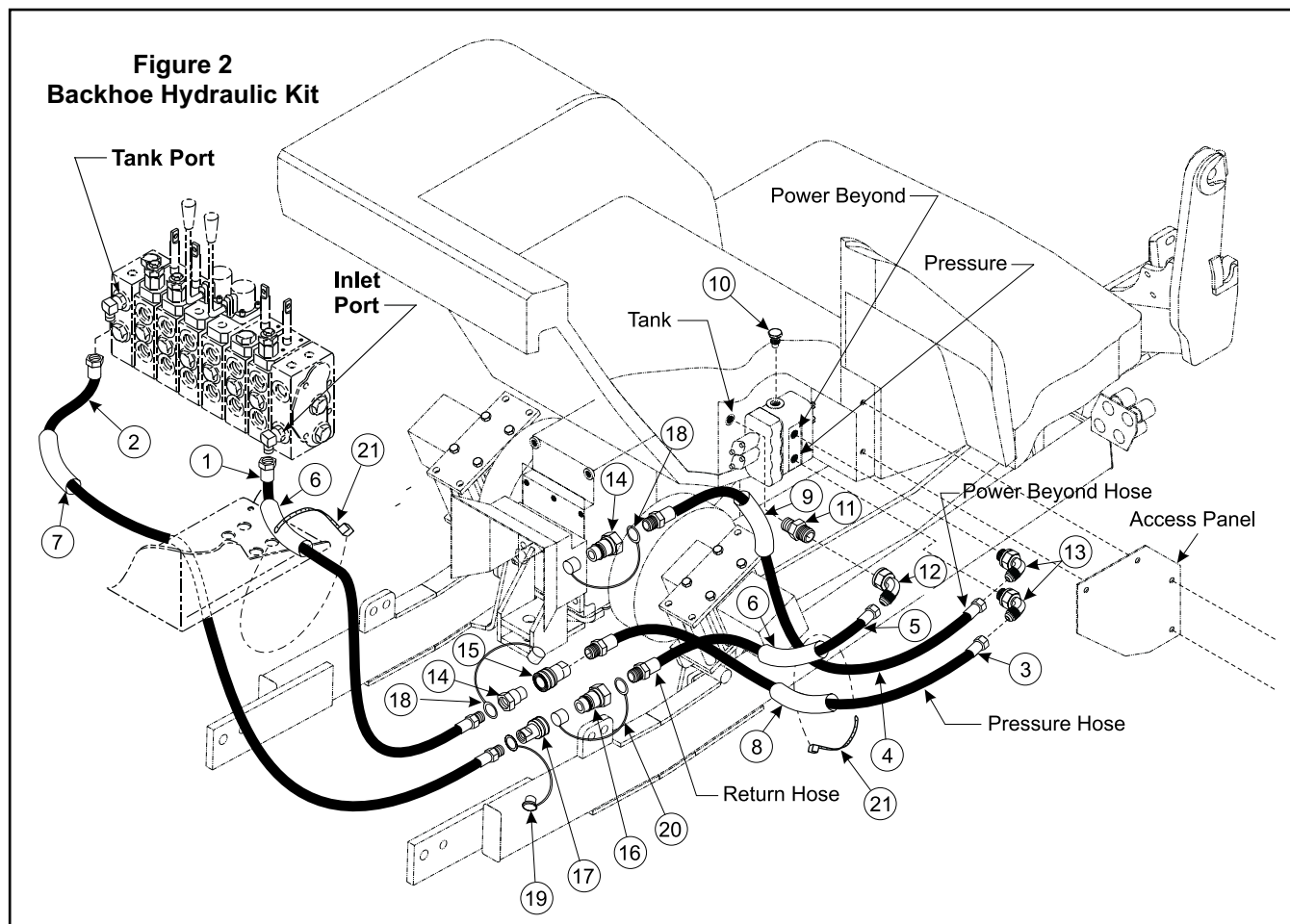
Figure 1
Mounting Backhoe
to Tractor



Route hoses (3, 4, & 5)
over axle and face toward
backhoe for ease in
connection.

Connect pressure hose (3) to backhoe inlet hose (1).
If backhoe is not mounted, connect pressure hose (3)
to power beyond hose (4) to complete hydraulic circuit.

Figure 2
Backhoe Hydraulic Kit









PARTS LIST – BACKHOE HOSE KIT

Item	Part No.	Description	Qty.
1	38576-17	HOSE, 3/8 x 42", (Pressure)	1
2	42827-8	HOSE, 1/2 x 60", (Return)	1
3	36388-17	HOSE, 3/8 x 42", (Pressure)	1
4	36388-12	HOSE, 3/8 x 24", (Power Beyond)	1
5	42827-9	HOSE, 1/2 x 48" (Return)	1
6	34853-80	SLEEVE, Nylon, 1.25 x 48"	2
7	34853-42	SLEEVE, Nylon, 1.25 x 60"	1
8	34853-84	SLEEVE, Nylon, 1.25 x 42"	1
9	34853-85	SLEEVE, Nylon, 1.25 x 24"	1
10	52962	DIVERTER PLUG ASSEMBLY	1
11	6036-2	FITTING, Straight, 1/2-14 NPTF x 3/4-16 JIC	1
12	34128-2	FITTING, 90°, 3/4-16 JIC	1
13	52995-1	FITTING, 90°, 3/8-19 x 9/16-18 JIC	2
14	6137-11	QUICK COUPLER, Male, 3/8"	2
15	6147-11	QUICK COUPLER, Female, 3/8"	1
16	6137-12	QUICK COUPLER, Male, 1/2"	1
17	6147-10	QUICK COUPLER, Female, 1/2"	1
18	4838-18	DUST CAP, 3/8" Black	2
19	4838-4	DUST PLUG, 1/2" Red	1
20	4838-19	DUST CAP, 1/2" Black	1
21	8137-6	STRAP, Adjustable Tie	3

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 molysulphide 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