



Hay Tedder

PRZ-7900

Assembly Instructions

Rel. 03/26



Note: This is a supplement to the PRZ-7900 Hay Tedder Operator's Manual. The machine operator is required to read and understand the PRZ-7900 Hay Tedder Operator's Manual prior to operating the machine!

Suggested tools:

Torque Wrench
Steel Hammer
Rubber Hammer
Allen Keys
Allen Sockets
Cutters

Sockets: 17mm, 19mm, 22mm 46mm

Allen Socket Screwdriver

Snap Ring Pliers
Standard Pliers

Scan QR code below for PRZ-7900 Assembly Instruction Video



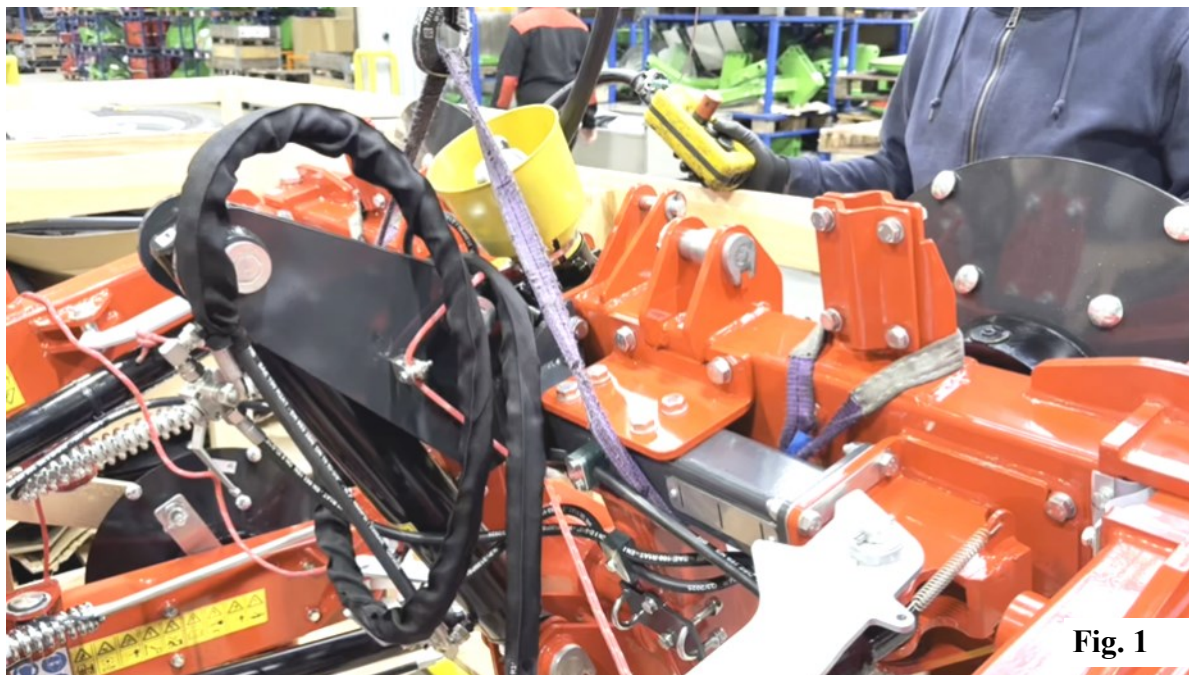


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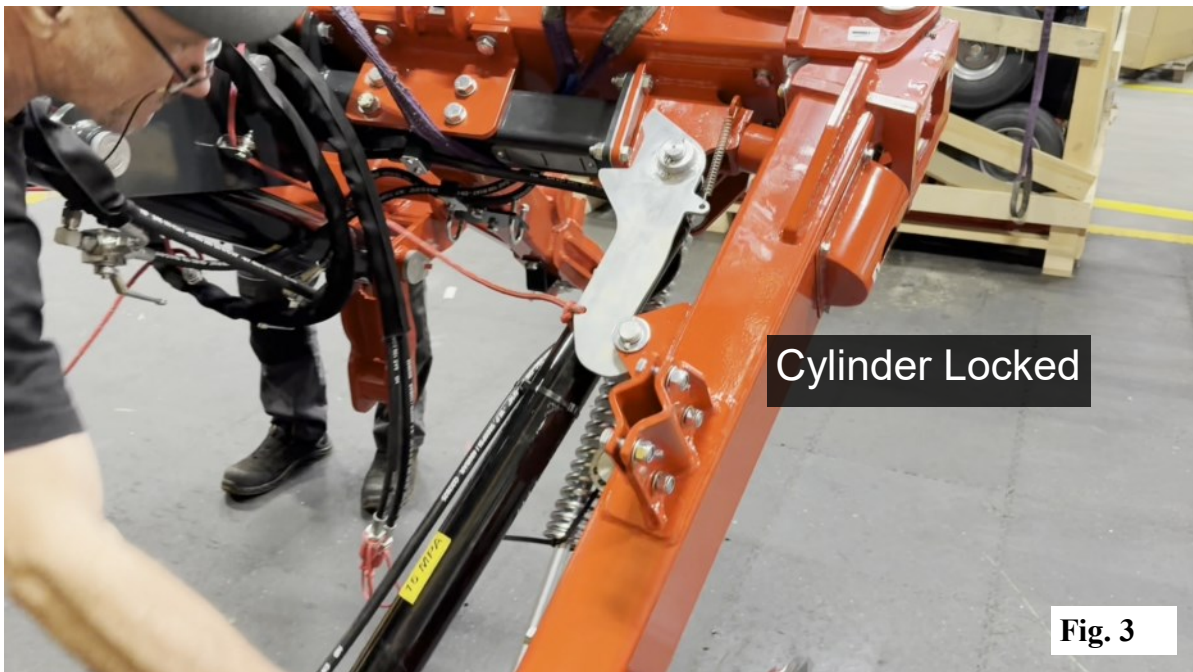
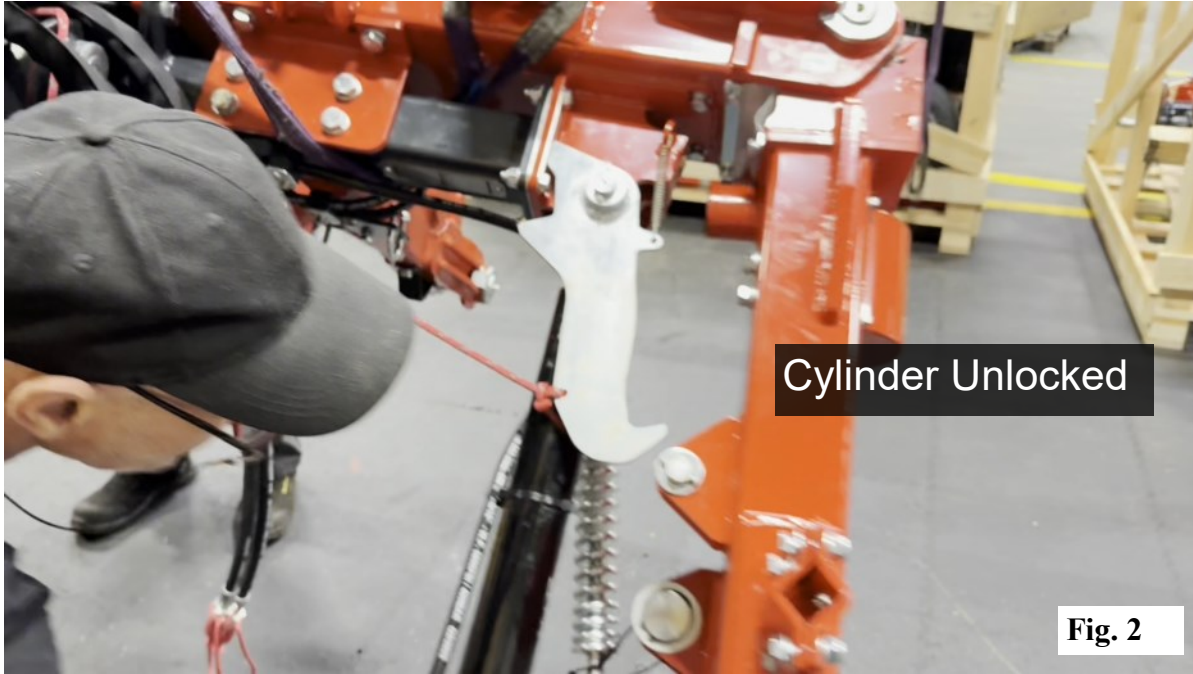
1. Unloading the frame

Attach a strap or chain around the frame as shown in Fig. 1 and lift using a chain hoist. Take all necessary safety precautions. Never allow bystanders in work area!



1. Unloading the frame

Important! Upon removing the frame from crate, swing the arm in to lock the Hydraulic Cylinders. Repeat for other arm.



2. Unloading Assembly Parts

Remove remaining items from crate. Inspect and note any damaged or missing items.

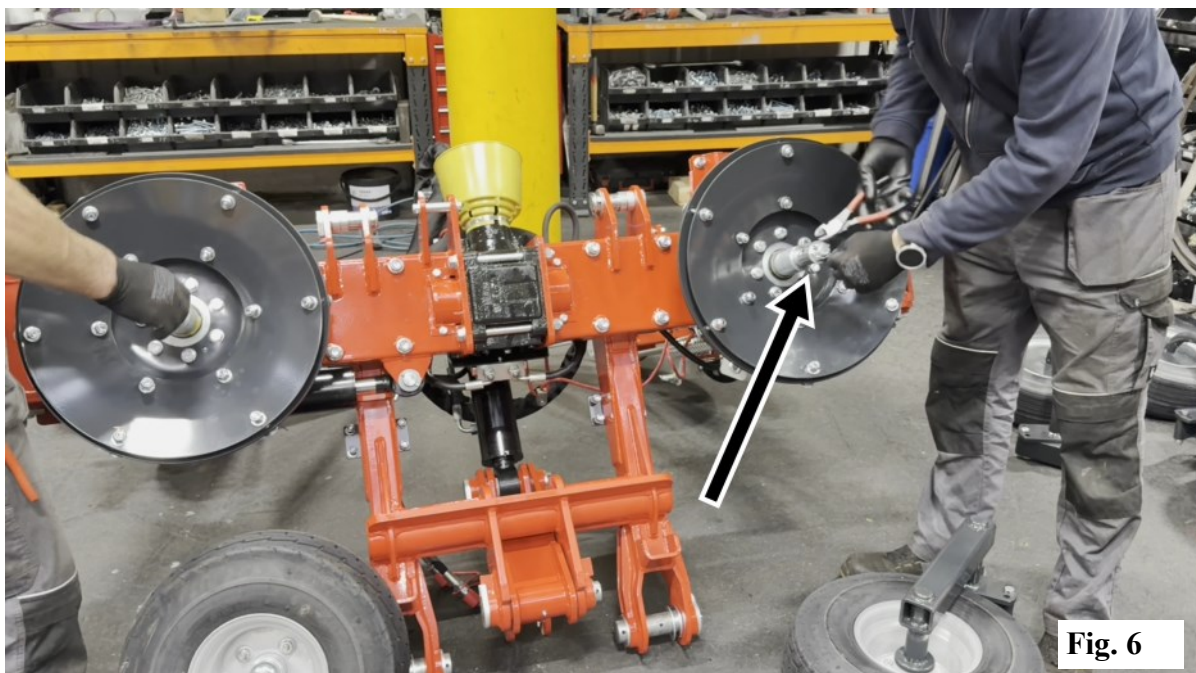


3. Bottom Wheels Assembly

NOTE: There is a label on the upper rotor plate and wheel axle. These labels must be matched for proper installation. See Fig. 5.



Remove the cotter pin, flat washer and castle nut from the rotor shaft,
Fig. 6.



3. Bottom Wheels Assembly

Slide the wheel assembly on to the rotor shaft. Rotate the wheel assembly so that the holes in the wheel assembly line up with hole in rotor shaft. Drive in the split pin until flush. See Fig. 7.

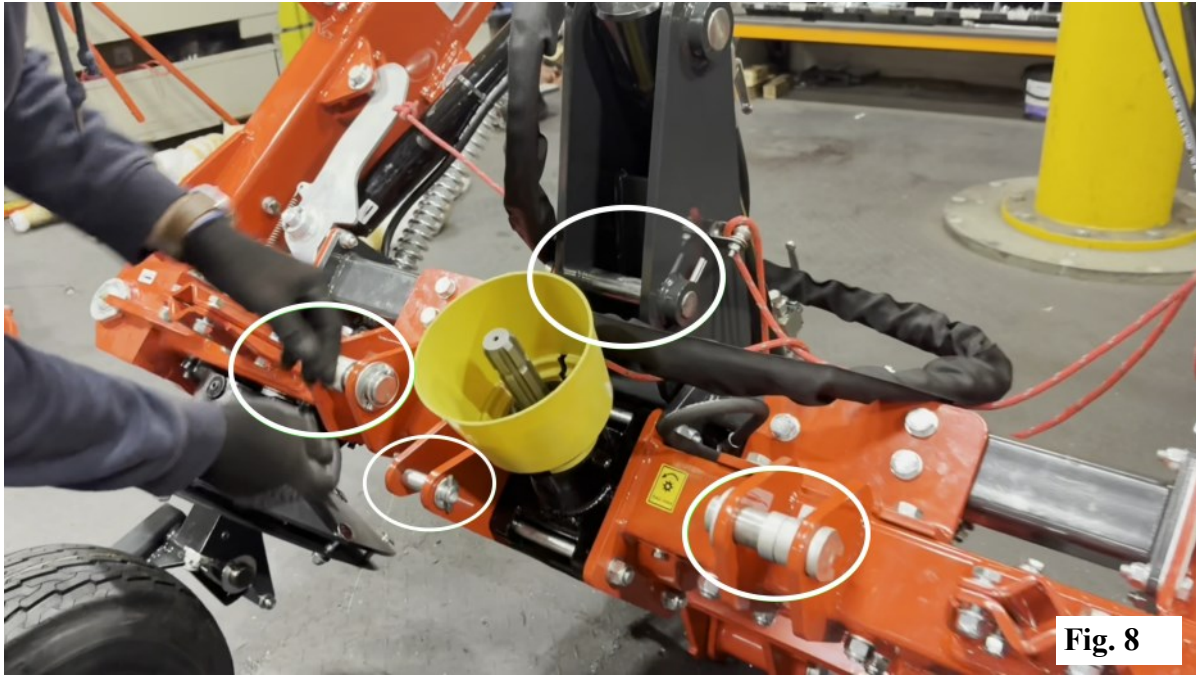


Place a washer and castle nut on rotor shaft and tighten. Line up slot in castle nut with hole in rotor shaft. Secure with cotter pin. See Fig. 7a. Repeat for other wheel assembly.



4. Drawbar Assembly

Remove the four pins (circled) in Fig. 8



Position drawbar on frame, Fig. 9.



4. Drawbar Assembly

Place a bushing on both sides of the drawbar assembly. Line up holes in drawbar assembly with holes in frame, Fig. 10.



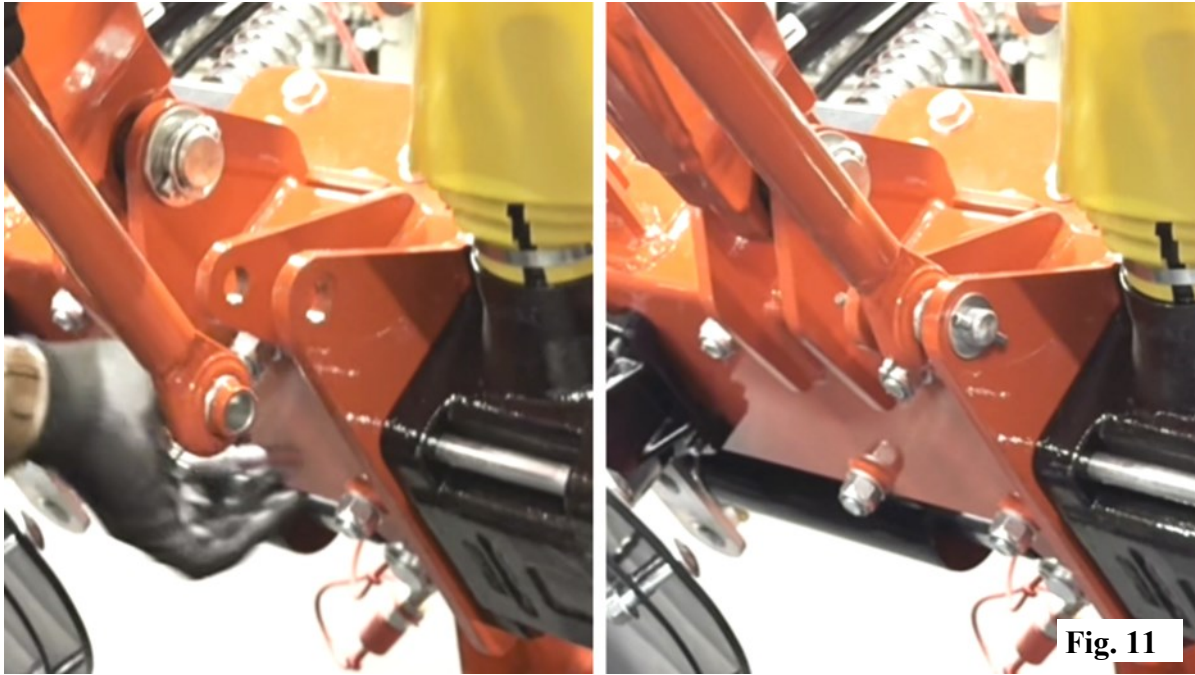
Insert pin through frame and drawbar assembly. Note: The slot in the pin has to align with tab on frame, Fig. 10a. Repeat for other side. Secure pin with flat washer and lynch pin.



4. Drawbar Assembly

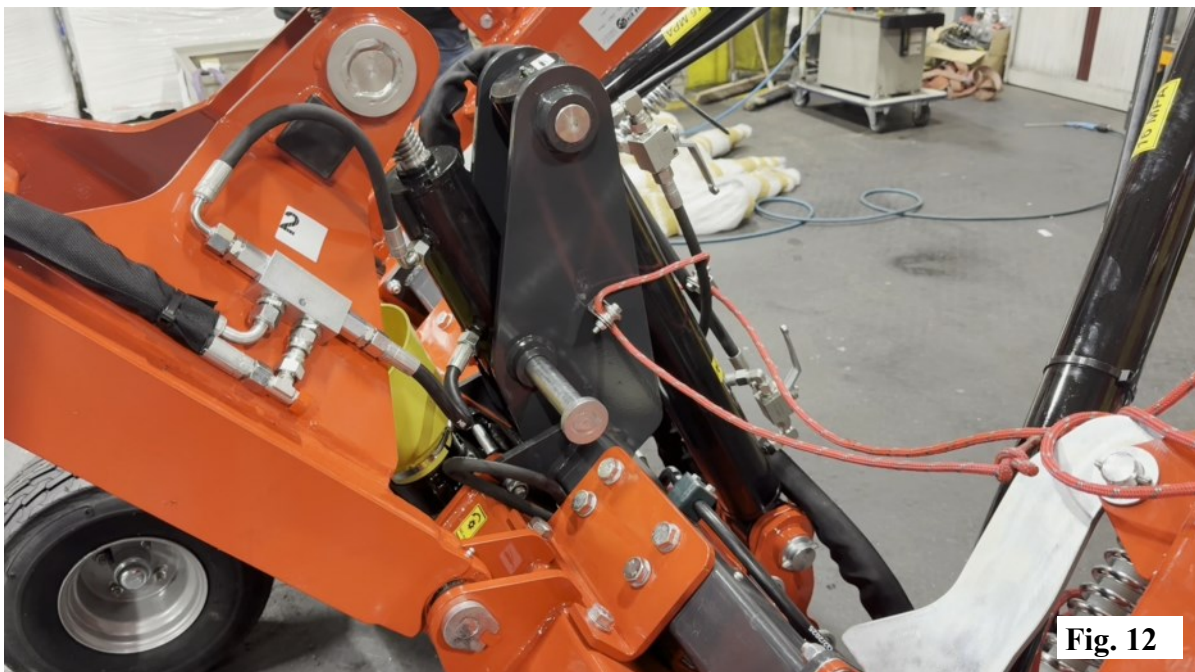
Connect tie rod to frame

Use a chain hoist to lift the drawbar assembly. Position the tie rod between frame mounts as shown, Fig. 11. Insert pin, place washer and secure with split pin.



Connect Hydraulic Cylinder to frame

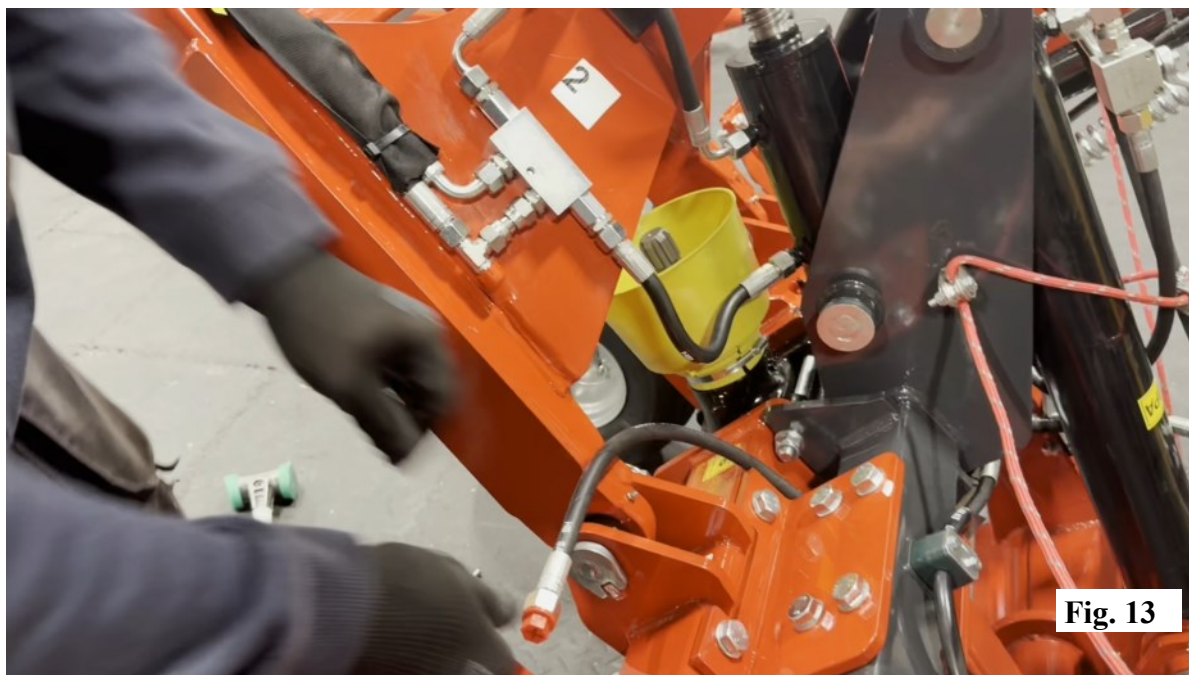
Use a chain hoist to lift or lower the drawbar assembly to position hydraulic cylinder in frame. Once holes are in alignment, insert pin and secure with split pin. See Fig. 12.



4. Drawbar Assembly

Connect Hydraulic Hose (Frame) to Tee (Drawbar)

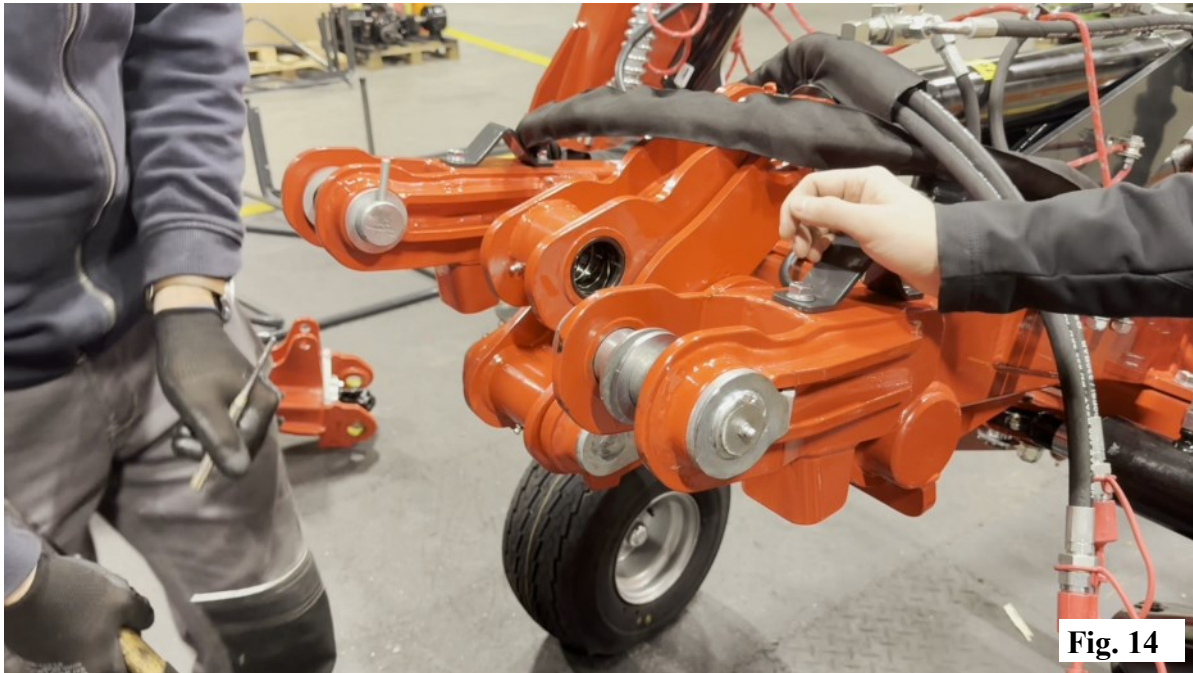
Remove the plastic plug from the hydraulic hose and cap from the hydraulic tee. Attach hydraulic hose to tee and tighten, Fig. 13.



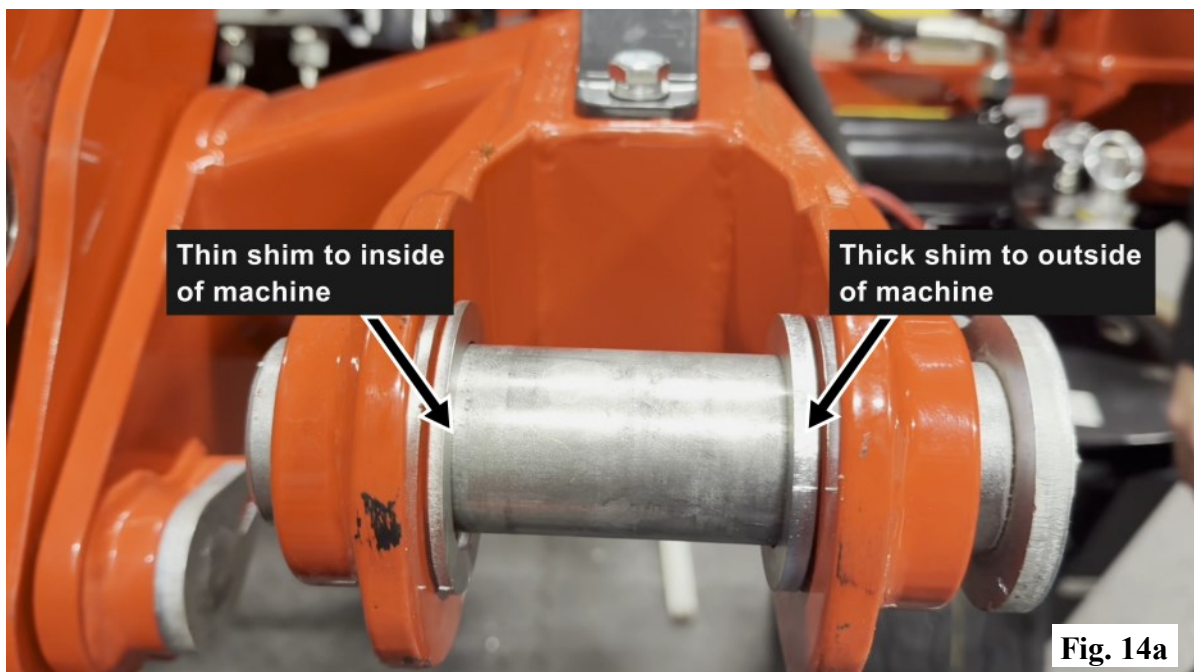
5. Transport Wheels Assembly

Remove Pins from frame (rear of machine)

Remove pins by driving out the roll pin in each pin, Fig. 14.



Notice that the thinner shim is facing towards the inside of the machine. The thicker shim faces the outside of machine. It is important place these shims in same order when attaching transport wheel assemblies. See Fig. 14a.



5. Transport Wheels Assembly

Attach Tires/Wheels to Transport Wheel Frame.



Fig. 15

Position Transport Wheel Assembly Frame in Main Frame Yokes as shown, Fig. 16. Align holes and insert pins. If necessary drive pins in with rubber mallet. Make sure to place shims in correct positions. Note: The tab on the pins must be seated in the channel on main frame, see Fig. 16. Secure pins with large flat washer and roll pin.

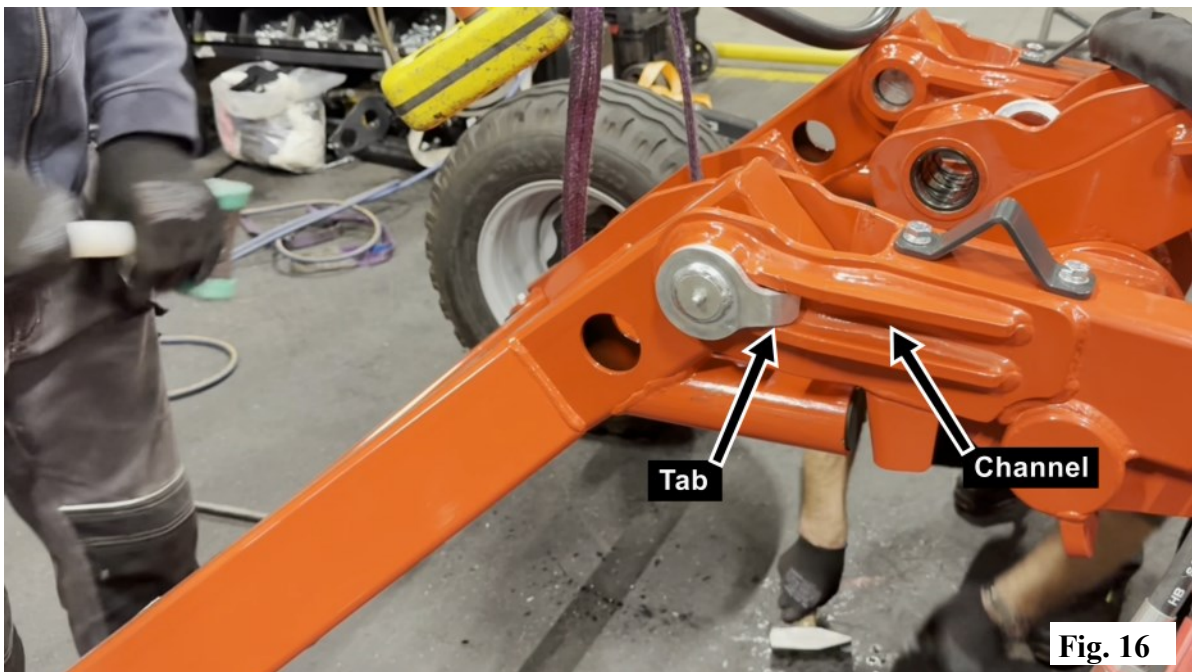
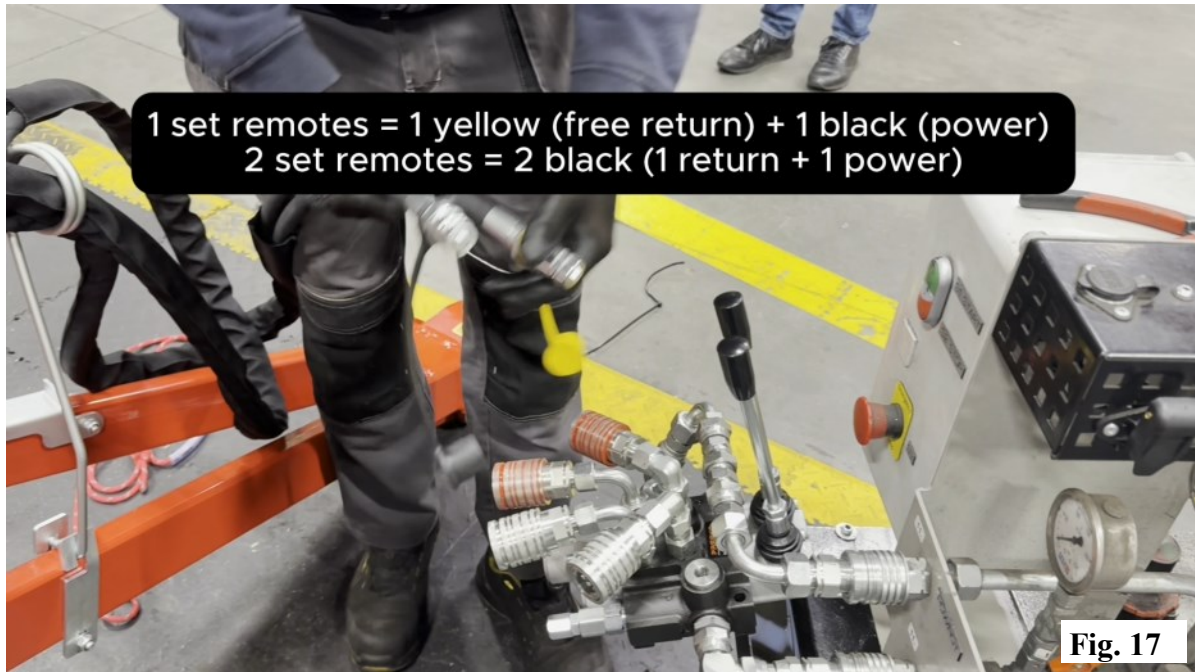


Fig. 16

5. Transport Wheels Assembly

Connect Hydraulic Hoses to Power Source.

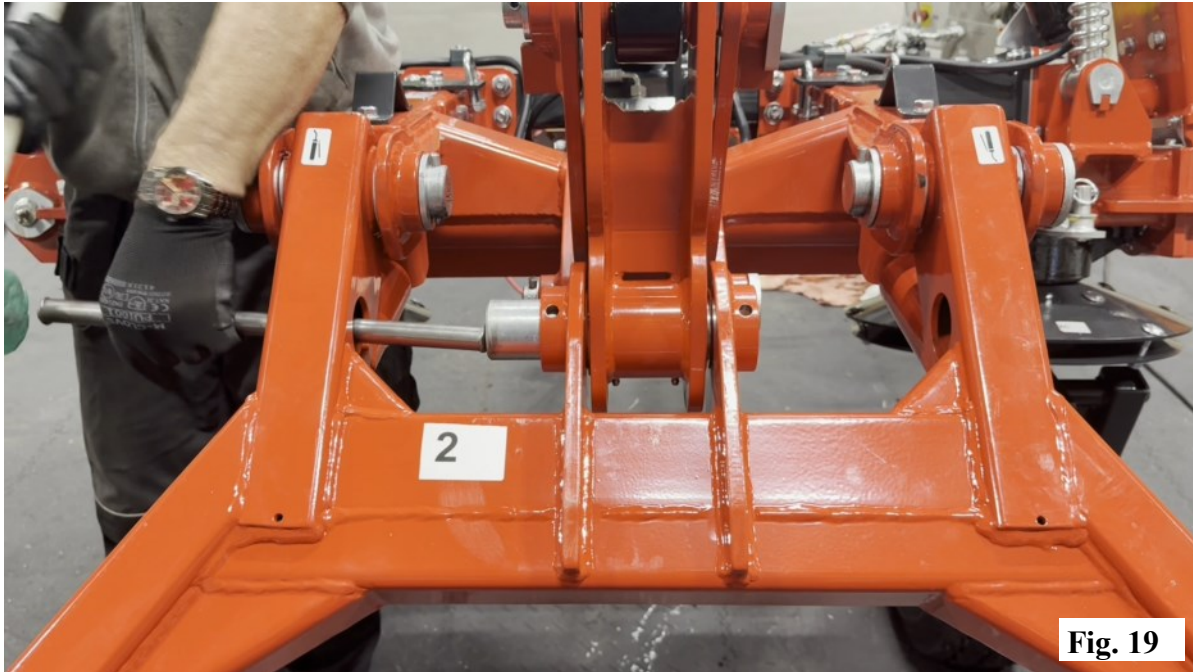


Extend the hydraulic cylinder while guiding transport wheel attachment plate by hand. Be carefully to avoid pinch points! Line up holes for pin.



5. Transport Wheels Assembly

Drive pin in place and secure with roll pin, Fig. 19.



Attach plastic caps to inside and outside of transport wheel frame, Fig. 20.



6. Working Wheels Assembly

Unlock and lower one arm. Remove cotter pin, castle nut and washer from rotor shaft.

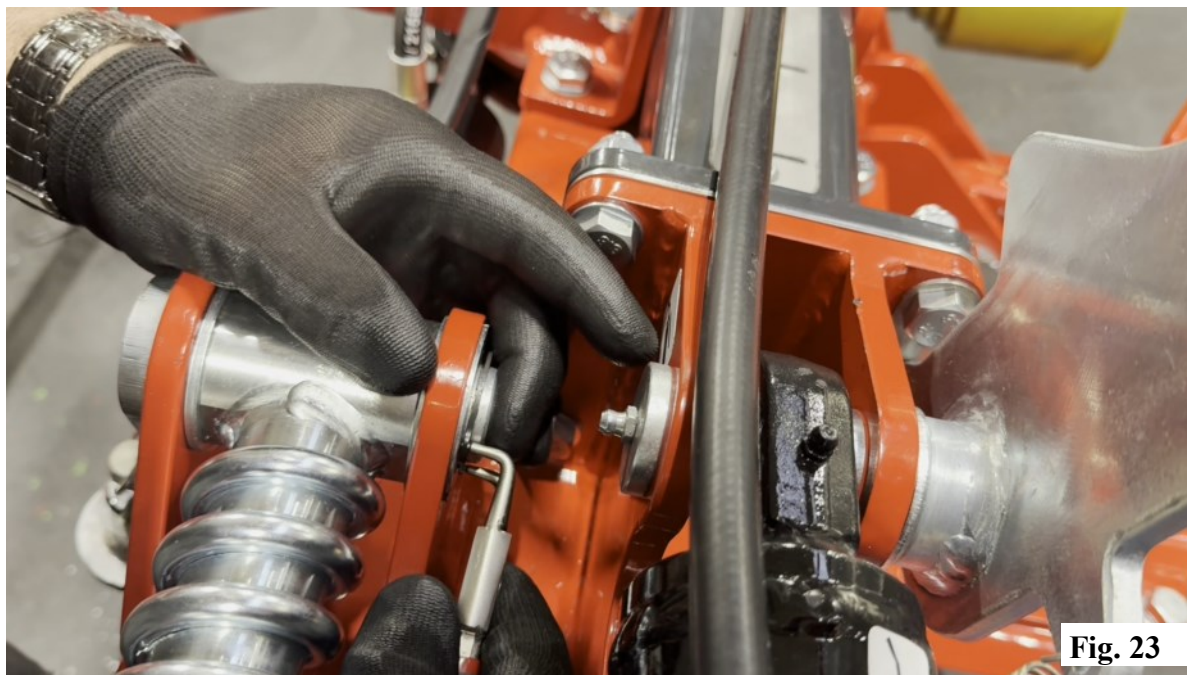


Slide wheel assembly on rotor shaft, place washer on shaft, thread castle nut and put cotter pin in place. Rotate wheel assembly so that hole lines up with hole in shaft. Drive in roll pin and repeat for other side, Fig. 22.

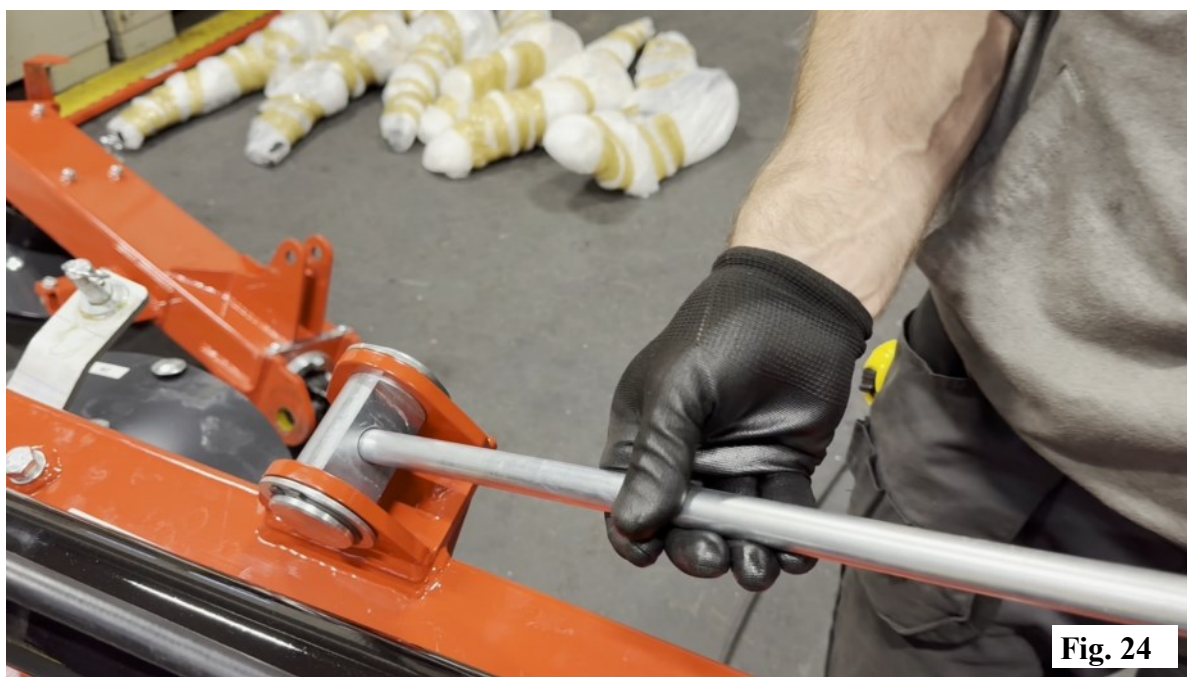


7. Outer Frames & Springs Assembly

Remove spring assembly, Fig. 23.

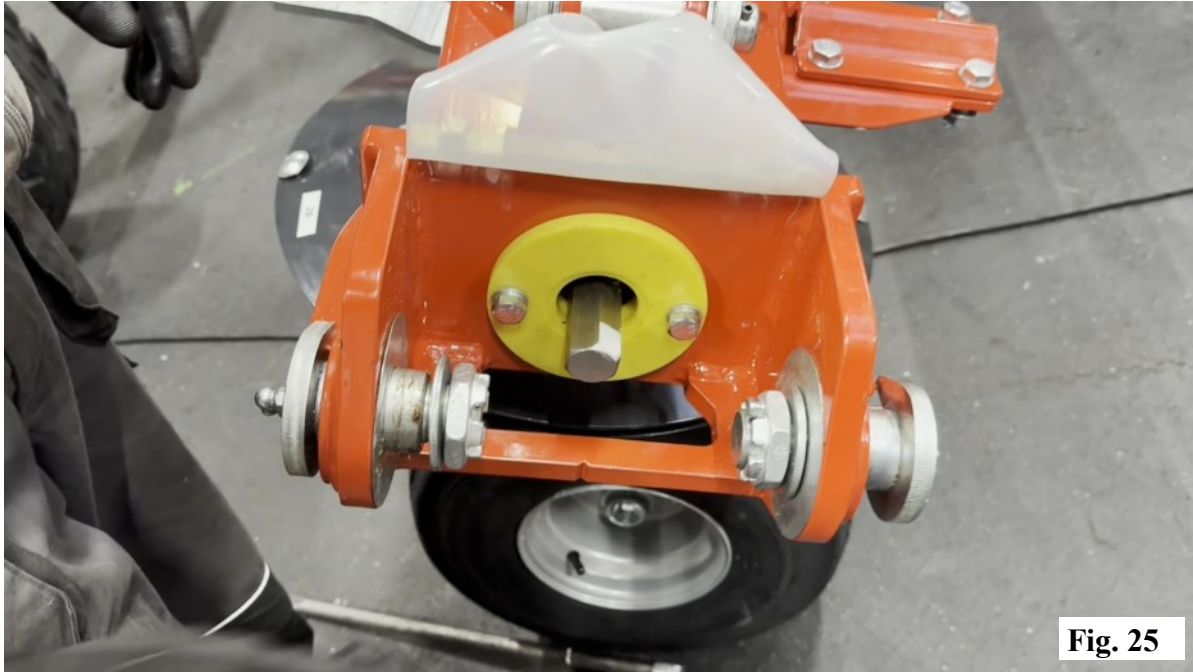


Insert spring assembly rid in swivel, Fig. 24. Re-attach spring assembly to frame.

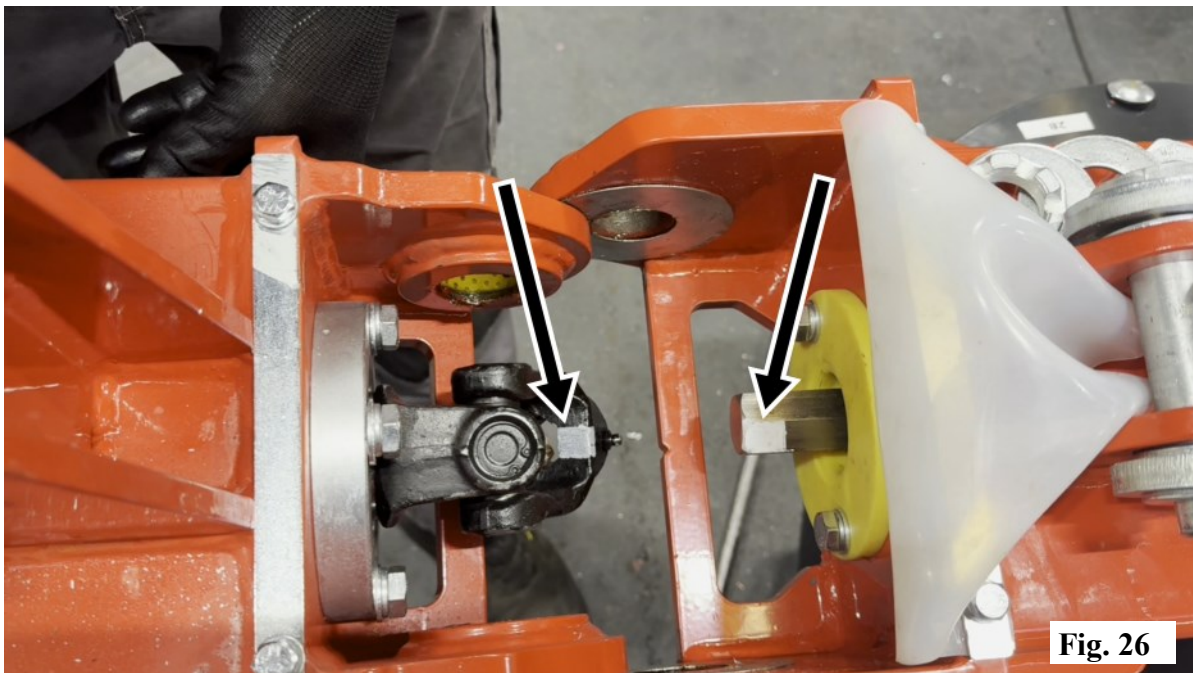


7. Outer Frames & Springs Assembly

Remove pins, castle nuts, washers and cotter pins. Note: Leave the large diameter shim in place, Fig. 25.



Line up both parts and slide together. A “white” mark is placed on the union and drive shaft. These marks must line up for proper installation. Insert pins, secure with cotter pin.



7. Outer Frames & Springs Assembly

Attach drive line cover, Fig. 27.

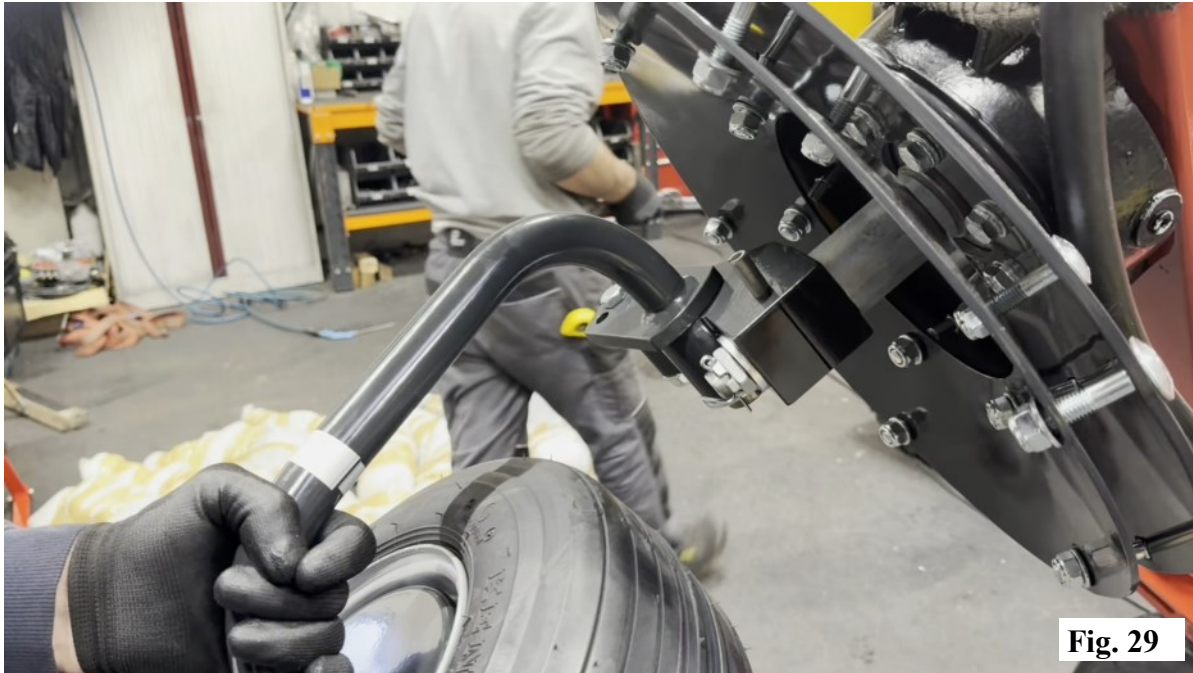


Remove cotter pin, flat washer and castle nut from wheel assembly, Fig. 28.



7. Outer Frames & Springs Assembly

Slide wheel assembly on to rotor shaft, slide on flat washer and secure with castle nut and cotter pin. Line up hole in wheel mount bracket with hole in rotor shaft. Drive in roll pin until flush with wheel mount, Fig. 29. Repeat for other side.



The hydraulic cylinder must be extended to attach to the outer arm, Fig. 30. Remove the pin from cylinder end.



7. Outer Frames & Springs Assembly

Insert pin and place washers as shown in Fig. 31. Secure with roll pin. Repeat for other side.



The hydraulic cylinder must be extended to attach to the outer arm, Fig. 30. Remove the pin from cylinder end.

8. Hydraulic Wheel Angling Drawbar Assembly

Place drawbar assembly over the frame pins. Note: The bent plate is on the LH side of machine, Fig. 32.



Secure drawbar assembly to frame with flat washers and lynch pins, Fig. 33.



9. Arms & Tines Assembly

Starting with the outside assembly, remove one set of carriage bolts. It may be necessary to loosen other carriage bolts, but do not remove. Insert a tine arm and attach with hardware removed from rotor disc, Fig. 34. Hand tighten hardware at this time.

Install remaining tine arms and tighten hardware.

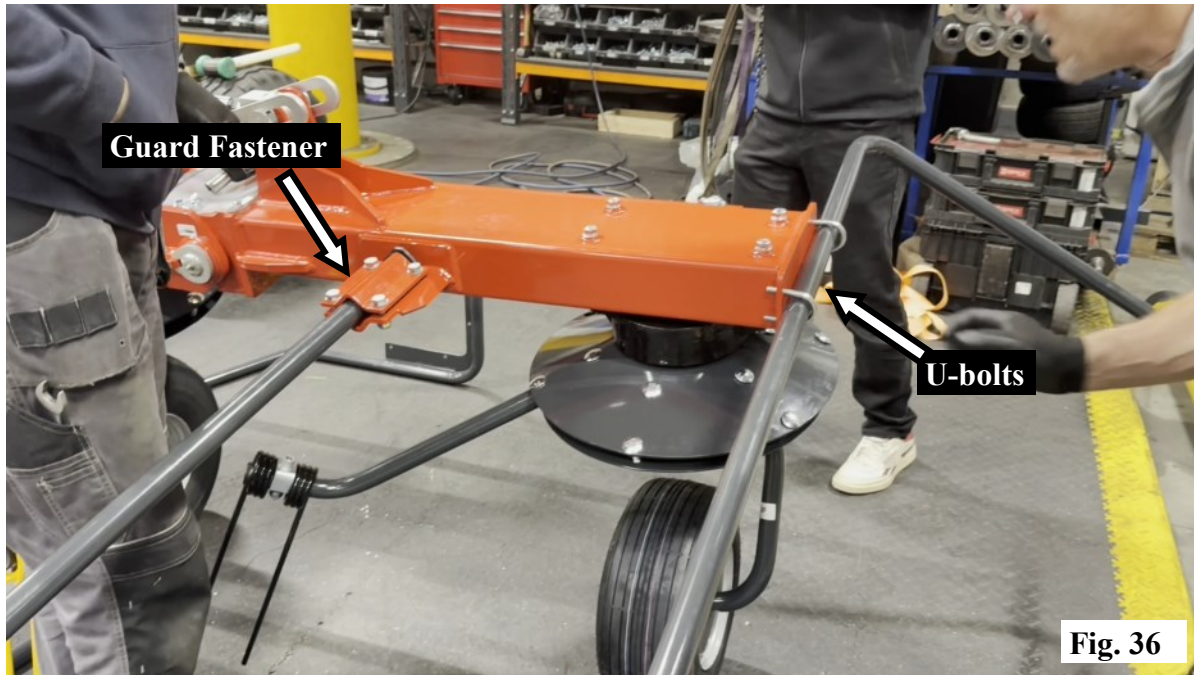


Warning! When assembling tine arms, make sure that they **OVER-LAP EACH OTHER** as shown in Fig. 35. Missing this step will cause necessary re-assembly of the machine. Fig. 35.

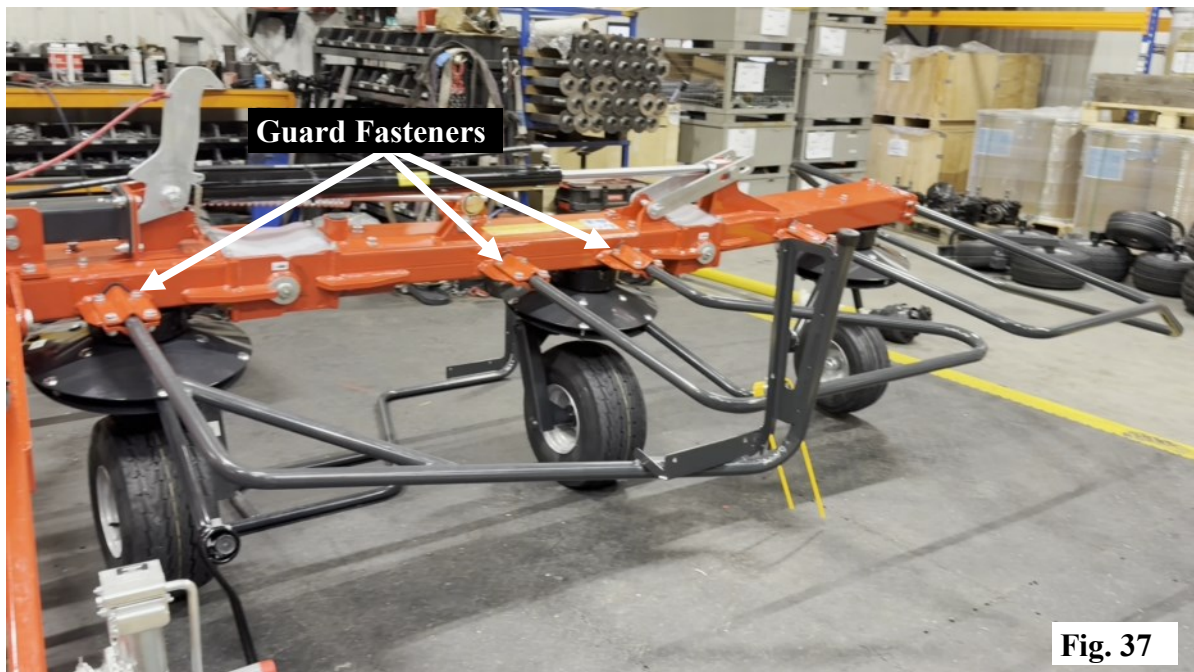


10. Barrier Assembly

Remove the “U-bolts” from end for arm assembly and guard fastener. Place the outer barrier as shown in Fig. 36 and attach with hardware and parts removed.

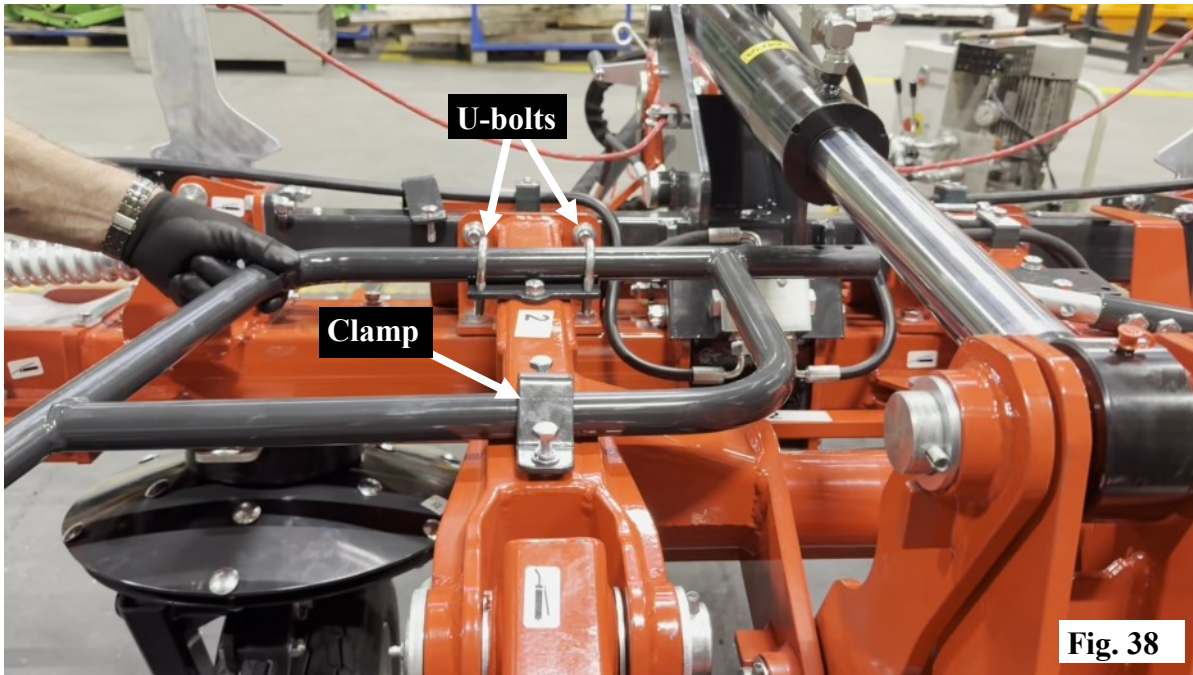


Remove (3) guard fasteners and install the inner barrier arms. Repeat for other side. Fig. 37.

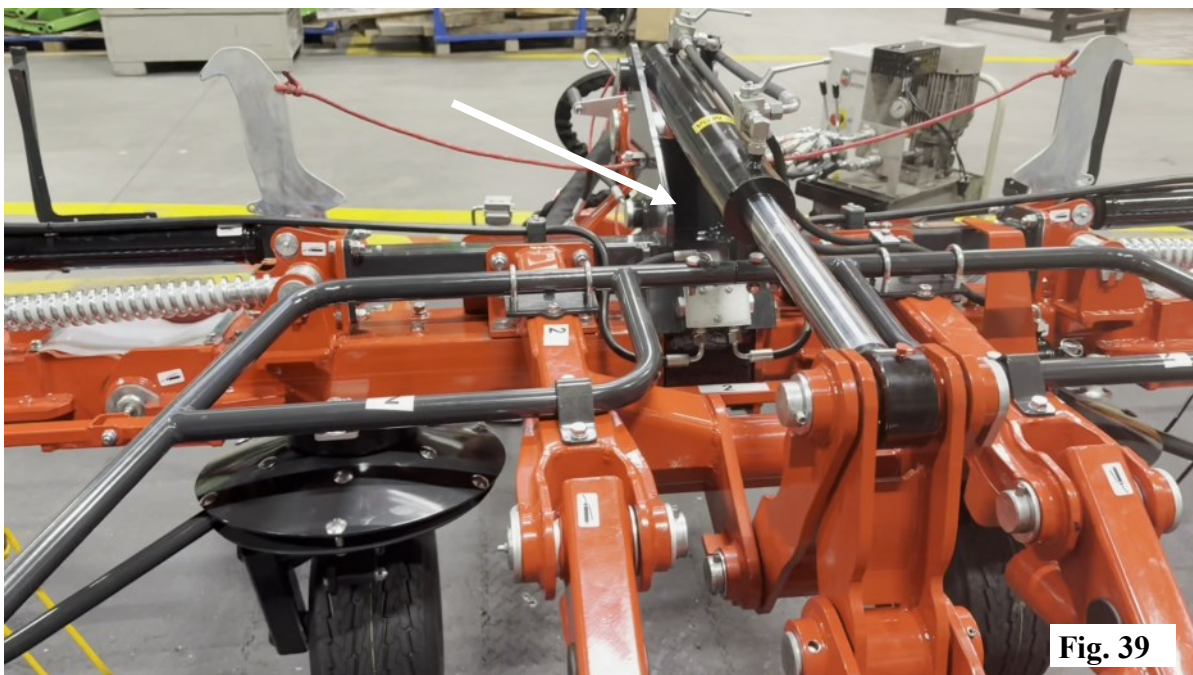


10. Barrier Assembly

Remove the “U-bolts”, clamp and hardware at end of the LH frame. Install LH rear guard barrier and hand tighten hardware at this time. Fig. 38.



Remove the hardware in end of the RH rear barrier guard. Insert RH rear barrier guard into the LH barrier guard and secure with hardware removed. Attach to frame with “U-bolts” and clamp and tighten all hardware. Fig. 39.



11. Warning Signs Assembly

Attach Warning Signs on LH and RH side of machine. Fig. 40.

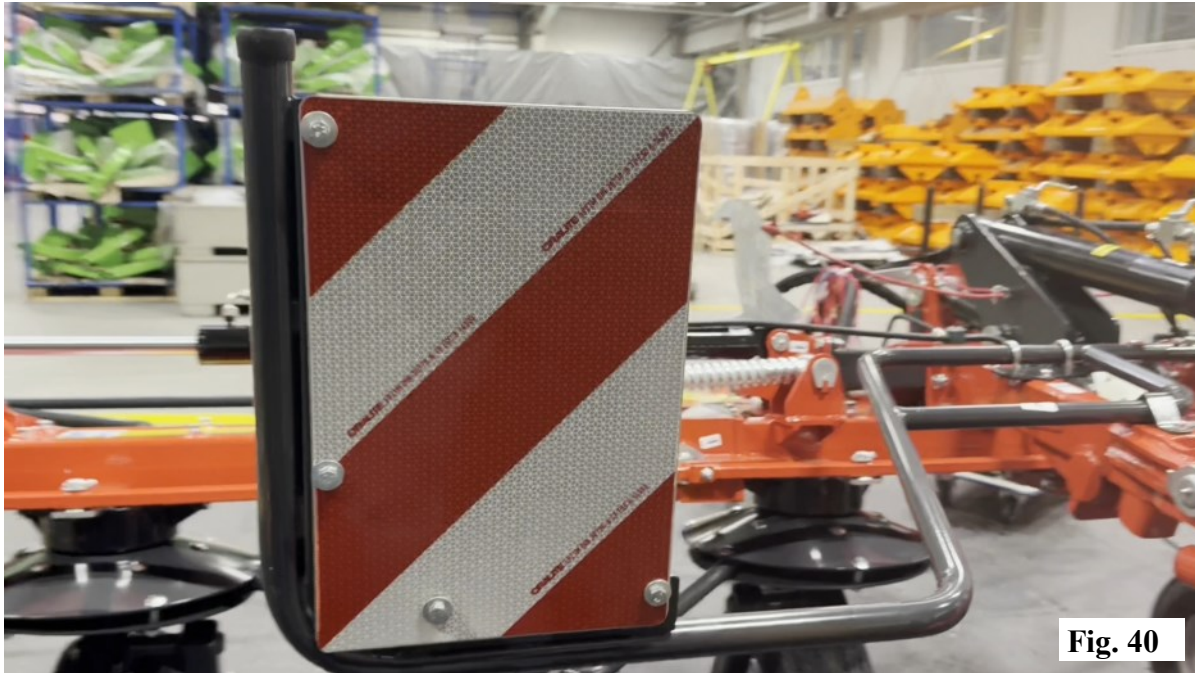


Fig. 40

Attach PTO Driveline to machine,

12. General Overview

Attach PTO Driveline to machine.
Check all hardware for tightness.
Check all hydraulic connections for tightness.

Fig.41.



Fig. 41

Torque Specifications

Torque Specifications for Common Bolt Sizes															
Inches		Bolt Head Identification						Metric		Bolt Head Identification					
Bolt size (inches)	Thread pitch	Grade 2		Grade 5		Grade 8		Bolt size (metric)	Thread pitch	Class 5.8		Class 8.8		Class 10.9	
		N.m	ft-lb	N.m	ft-lb	N.m	ft-lb			N.m	ft-lb	N.m	ft-lb	N.m	ft-lb
1/4"	20	7	5	11	8	16	12	M5	0.08	4	3	6	4	9	7
1/4"	28	8	6	13	10	19	14	M6	1	6	4	10	7	15	11
5/16"	18	15	11	24	17	33	25	M8	1.25	16	12	25	18	36	27
5/16"	24	17	13	26	19	37	27	M8	1	17	13	26	19	38	28
3/8"	16	27	20	42	31	59	44	M10	1.5	31	23	48	35	71	52
3/8"	24	31	23	47	35	67	49	M10	1.25	33	24	51	38	75	55
7/16"	14	43	32	67	49	95	70	M10	1	35	26	53	39	78	58
7/16"	20	48	36	75	55	106	78	M12	1.75	54	40	84	62	123	91
1/2"	13	66	48	102	75	144	106	M12	1.5	56	41	87	64	128	94
1/2"	20	75	55	115	85	163	120	M12	1.25	59	44	90	66	133	98
9/16"	12	95	70	147	109	208	154	M14	2	84	62	133	98	195	144
9/16"	18	106	79	164	121	232	171	M14	1.5	94	69	142	105	209	154
5/8"	11	132	97	203	150	287	212	M16	2	131	97	206	152	302	223
5/8"	18	149	110	230	170	325	240	M16	1.5	141	104	218	161	320	236
3/4"	10	233	172	361	266	509	376	M18	2.5	181	133	295	218	421	310
3/4"	16	261	192	403	297	569	420	M18	2	196	145	311	229	443	327
7/8"	9	226	167	582	430	822	606	M18	1.5	203	150	327	241	465	343
7/8"	14	249	184	642	473	906	668	M20	2.5	256	189	415	306	592	437
1"	8	339	250	873	644	1232	909	M20	1.5	288	212	454	335	646	476
1"	12	371	273	955	704	1348	995	M22	2.5	344	254	567	418	807	595
1-1/8"	7	480	354	1077	794	1746	1288	M22	1.5	381	281	613	452	873	644
1-1/8"	12	539	397	1208	891	1958	1445	M24	3	444	327	714	526	1017	750
1-1/4"	7	677	500	1519	1120	2463	1817	M24	2	488	360	769	567	1095	808
1-1/4"	12	750	553	1682	1241	2728	2012	M27	3	656	484	1050	774	1496	1103
1-3/8"	6	888	655	1992	1469	3230	2382	M27	2	719	530	1119	825	1594	1176
1-3/8"	12	1011	746	2268	1673	3677	2712	M30	3.5	906	668	1420	1047	2033	1499
1-1/2"	6	1179	869	2643	1949	4286	3161	M30	2	1000	738	1600	1180	2250	1659
1-1/2"	12	1326	978	2974	2194	4823	3557	M36	4	1534	1131	2482	1830	3535	2607

Notes:

This chart is an approximate estimate of torque values.

Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application.

Fasteners must always be replaced with the same grade as specified in the manual.

Always use the proper tool for tightening hardware: SAE for SAE hardware and Metric for Metric hardware.



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