EAGLE PRO®
Worldwide Hydraulic Solutions

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INSTRUCTION SHEET FOR ETJ–205, 210, 225 TOE JACKS

Repair Parts Sheets for ETJ-Series Toe Jacks are available from you nearest authorized EAGLE PRO Service Center or EAGLE PRO Sales office.

NOTE
PLEASE READ AND FOLLOW THESE INSTRUCTIONS BEFORE YOU USE EAGLE PRO HYDRAULIC TOE JACKS.

Carefully inspect all components for shipping damage. If shipping damage is found, please notify carrier at once. The carrier is responsible for any damage resulting from shipment.

01 SAFETY

To avoid personal injury or property damage, please follow all safety precautions. EAGLE PRO cannot be responsible for injury or damage resulting from unsafe and incorrect product use or system operation, or lack of maintenance.

DANGER is only used when your action or lack of action may cause serious injury or even death.
WARNING indicates a potential danger that requires correct action to avoid personal injury.
IMPORTANT indicates correct action to prevent damage or equipment failure.

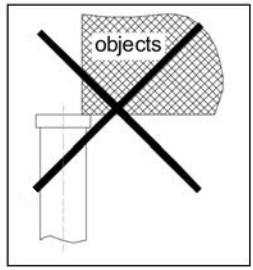
DANGER

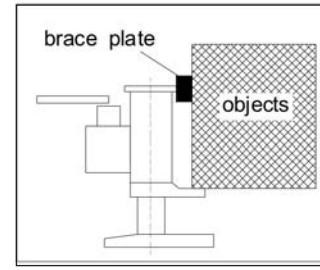
- The hydraulic equipment operator must be a qualified operator with correct training or work experience with hydraulic equipment. Lack of knowledge in any of these areas can lead to equipment damage or personal injury.
- To avoid personal injury, do not modify or weld hydraulic equipment without approval by EAGLE PRO.
- Never lift more than the rated capacity of the jack, overloading causes equipment failure and possible personal injury.
- Jack is a load lifting device, not a load holding device. After the load has been raised or lowered, it must always be held mechanically, never work under a load supported by hydraulic jack.

- Keep hands and feet away from jack and workplace during operation to avoid personal injury.
- Do not put off-balance or off-center loads on jack. The incorrect load placement can result in equipment failure and possible personal injury.

WARNING

- Wear safety glasses, helmet and other necessary personal protective equipment when operating hydraulic equipment
- Do not add additional weight to a lifted load.
- Jacks used to lift loads should have a solid base surface for correct support. Select steel or wood blocks that are capable of supporting the load. Do not use in unstable or hazardous positions.
- The load must be stable during lifting.
- Do not lift at the end of the toe; fully engage the load with the toe.
- Do NOT, under any circumstances, tamper with the adjustment of the jack's internal relief valve.
- Never use the side of jack's head to lift weight. When lifting, the weight should be braced like the picture below.





- Use only EAGLE PRO or other approved hydraulic oil.
- For hydraulic technical help or repair service. Please contact the authorized EAGLE PRO Service Center in your area. EAGLE PRO has no obligations under any warranty with respect to products that have been repaired by unauthorized personnel, modified, or damaged through misuse, abuse, accident, neglect, or mishandling.

IMPORTANT

- Please keep the jack clean all the time.
- Do not carry the jack by the operating handle, use carrying handle or other safe method. When the jack is not in use, please keep the piston rod fully retracted, and store in clean and dry environment.
- Please use hydraulic equipment in -4F° to 122F° (-20C° to +50 C°) temperatures.
- Conditions above or below these temperatures will damage seals and weaken hose materials, resulting in oil leaking or other equipment failure.
- These instructions cannot cover all situations, please follow each step of it carefully.

02 DESCRIPTION

Model	Loading (ton)	Lifting height (in/mm)	Min.height toe (in/mm)	Min.height head (in/mm)	Handle force (N)	Net weight (lbs/kg)
ETJ-205	5	8.07/205	0.98/25	14.49/368	380	55/25
ETJ-210	10	9.06/230	1.18/30	16.54/420	400	77/35
ETJ-225	25	8.46 /215	2.28 /58	19.88 /505	400	239.8/109

03 OPERATION

Insert the operating handle to the socket and screw it tightly in clockwise direction before using jack.

3.1 Lifting

- Position the load on the toe of the jack.

Important: Never use the side of jack's head to lift load. Never use the front end of the toe to lift the weight. When lifting the weight by the toe, the weight should be closed to the head of jack to avoid bending the shaft.

- Turn the release valve knob in a clockwise direction until it will turn no more.
- Operate the handle up and down to lift the load.

3.2 Lowering

Slowly open the release valve knob by turning it in counter-clockwise direction to lower the load. The more the knob is loosened, the faster the load will be lowered. To stop the jack instantly from lowering a load, tighten the release valve knob by turning it in a clockwise direction.

04 MAINTAINING

Monthly maintenance is recommended. Lubrication is important to jack as they support heavy loads. Any restriction due to dirt, rust, etc, can cause either slow movement or extremely rapid jerks, damaging the internal components. The following steps designed to keep the jack well lubricated.

- Lubricate the shaft, linkages, and pump mechanism with oil.
- Visually inspect for cracked welds, bent, loose, missing parts or hydraulic leaks.
- Always keep jack clean and maintain all labels and warnings
- Always use clean EAGLE PRO oil or other approved hydraulic oil with jack. Use other unapproved oil or dirty oil will damage the jack.
- When not in use, jack must be fully retracted, cleaned and stored in a clean, dry environment.

05 ADDING/CHANGING OIL

If the jack cannot be extended to maximum height, jack may need to add hydraulic oil. The hydraulic fluid to be used must be at least of ISO VG22 or equivalence. Mixing of difference fluids is prohibited. For best performance and longest life, replace the complete fluid supply at least once per year.

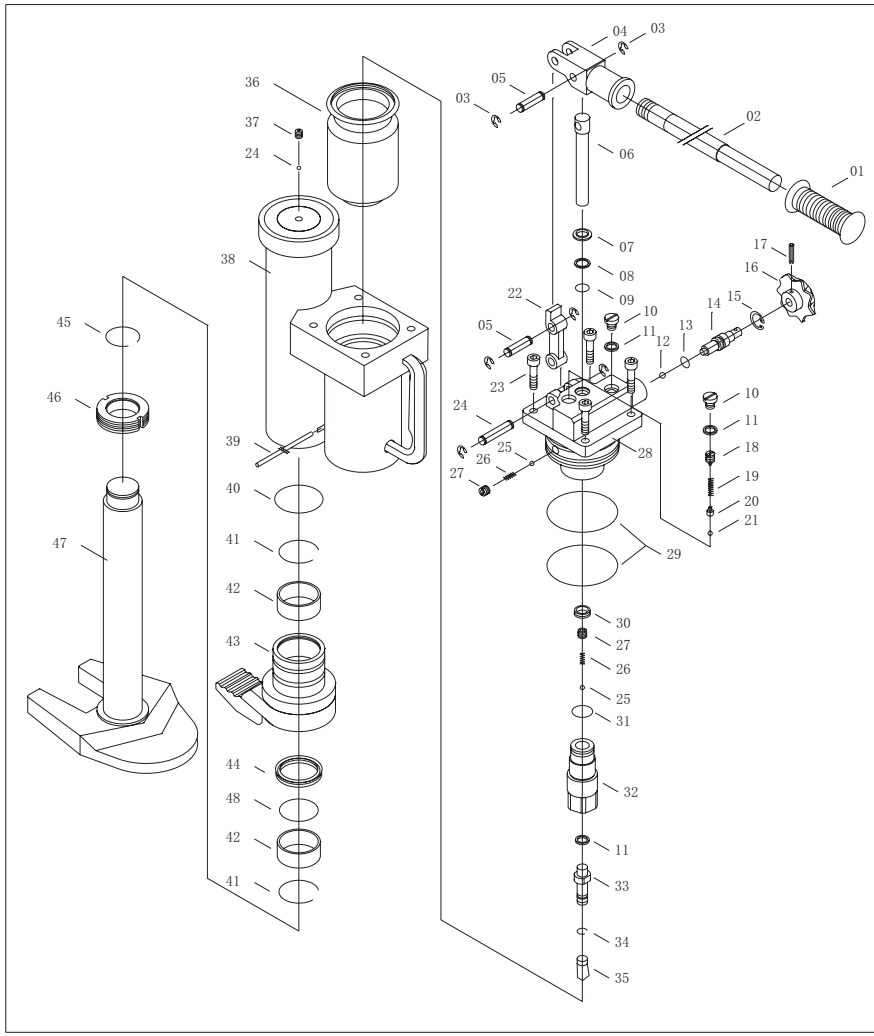
06 TROUBLE SHOOTING

WARNING: EAGLE PRO hydraulic toe jack should be repaired only by qualified operators or Authorized EAGLE PRO Service Centers. Repairing toe jacks without specialized tools and knowledge may result in personal injury. Fully release the pressure before making repair.

Symptom	Possible cause	Aliments
Jack cannot be pumped up properly.	The release valve is not closed.	1. Close the release valve 2. Loose the screw to release the air from the pump, and then screw in it tightly.
Jack cannot be released down at the top position	The release valve is not opened enough.	Fully open the release valve
Jack cannot be pumped up to its rated high-test position	Oil is low	Remove the screw (10), add hydraulic oil.
Oil has leaked around the plunger.	Seals are worn out.	Replace worn seals

07 ETJ–205, ETJ–210 PART LIST

NO	Description	PART NO		Quantity	NO	Description	PART NO		Quantity
		ETJ–205	ETJ–210				ETJ–205	ETJ–210	
1	Handle Grip	501	501	1	25	Ball	525	525	3
2	Handle	502	502	1	26	Spring	526	526	2
3	Snap Ring	503	503	6	27	Screw	527	527	2
4	Socket	504	504	1	28	Pump Body	528	528	1
5	Pin	505	505	2	29	O-Ring	529	529	2
6	Plunger	506	506	1	30	Y-Ring	530	530	1
7	Wiper	507	507	1	31	O-Ring	531	531	1
8	Back-Up Ring	508	508	2	32	Valve Stem Bush	532	532	1
9	O-Ring	509	509	2	33	Oil Pipe	533	533	1
10	Screw	510	510	1	34	Retaining Ring	534	534	1
11	Gasket	511	511	3	35	Filter	535	535	1
12	Ball	512	512	1	36	Flexible Bag	536	1036	1
13	O-Ring	513	513	1	37	Screw	537	537	1
14	Release Rod	514	514	1	38	Assemble Of Cylinder	538	1038	1
15	Snap Ring	515	515	1	39	Steel Wire	539	1039	1
16	Unload Handle	516	516	1	40	O-Ring	540	1040	1
17	Screw	517	517	1	41	Retaining Ring	541	1041	2
18	Adjusting Screw	518	518	1	42	Bush	542	1042	2
19	Spring	519	519	1	43	Forked Mounting	543	1043	1
20	Ball Seat	520	520	1	44	Y-Ring	544	1044	1
21	Ball	521	521	1	45	Snap Ring	545	1045	1
22	Linkage	522	522	1	46	Limit Block	546	1046	1
23	Screw	523	523	4	47	Pillar	547	1047	1
24	Pin	524	524	1	48	D-Ring	554	1054	1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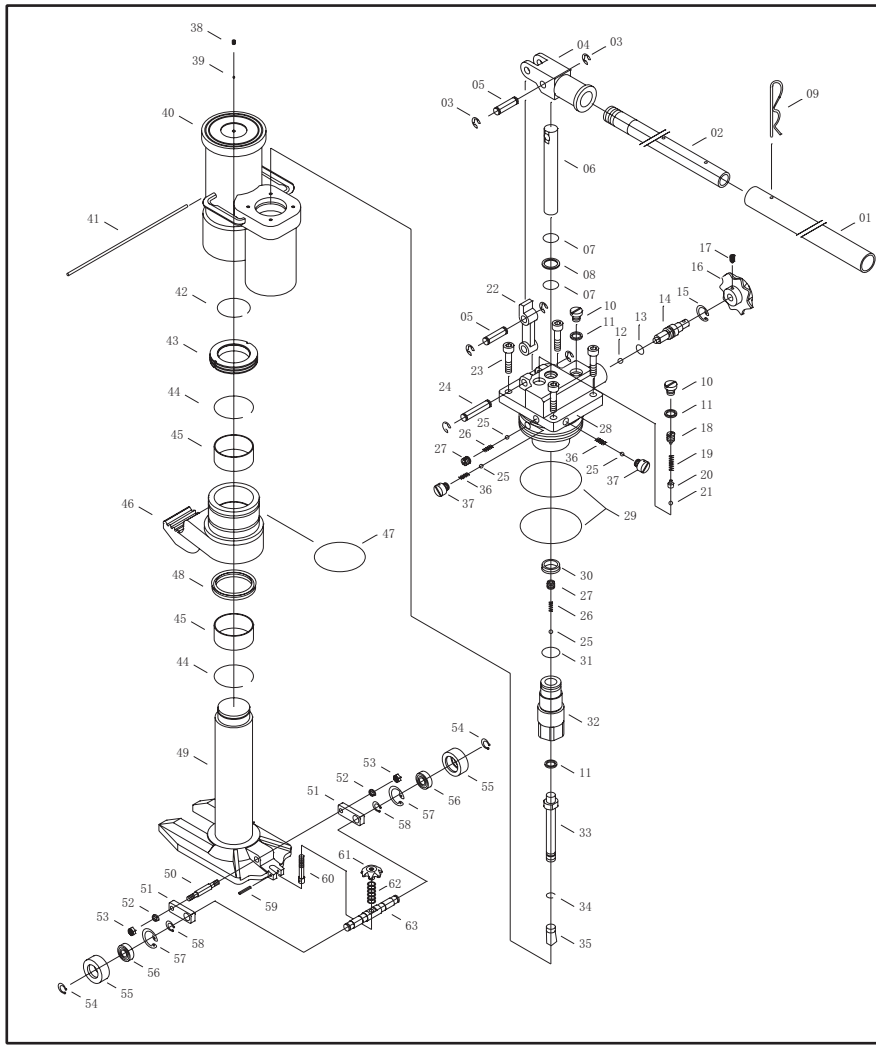
08 ETJ–225 PART LIST

NO	Name	Part No.	Quantity	NO	Name	Part No.	Quantity
1	Upper Handle	2501	1	33	Oil Pipe	2533	1
2	Lower Handle	2502	1	34	Retaining Ring	534	1
3	Snap Ring	503	6	35	Filter	535	1
4	Socket	504	1	36	Spring	2536	2
5	Pin	505	2	37	Screw	2537	2
6	Plunger	2506	1	38	Screw	537	1
7	O - Ring	2507	2	39	Ball	525	1
8	Back-up Ring	2508	2	40	Cylinder	2540	1
9	Pin	2509	1	41	Steel Wire	2541	1
10	Screw	510	2	42	Retaining Ring	2542	1
11	Gasket	511	3	43	Limit Block	2543	1
12	Ball	512	1	44	Retaining Ring	2544	2
13	O - Ring	513	1	45	Bush	2545	2
14	Release Rod	514	1	46	Forked Mounting	2546	1
15	Snap Ring	515	1	47	O-Ring	2547	1
16	Unload Handle	516	1	48	Y-Ring	2548	1
17	Screw	517	1	49	Pillar	2549	1
18	Adjusting Screw	518	1	50	Axle	2550	2
19	Spring	519	1	51	Plate	2551	2
20	Ball Seat	520	1	52	Spring Wash	2552	2
21	Ball	521	1	53	Nut	2553	1
22	Linkage	522	1	54	Retaining Ring	2554	2
23	ScrewM8x30	523	4	55	Wheel	2555	2
24	Pin	524	1	56	Bearing	2556	2
25	Ball	525	3	57	Snap Ring	2557	2
26	Spring	526	2	58	Snap Ring	2558	2
27	Screw	527	2	59	Spring Pin	2559	1
28	Pump Body	2528	1	60	Pin	2560	1
29	O - Ring	529	2	61	Knob	2561	1
30	Y - Ring	2530	1	62	Spring	2562	1
31	O - Ring	531	1	63	Axle	2563	1
32	Valve Stem Bush	2532	1	64			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