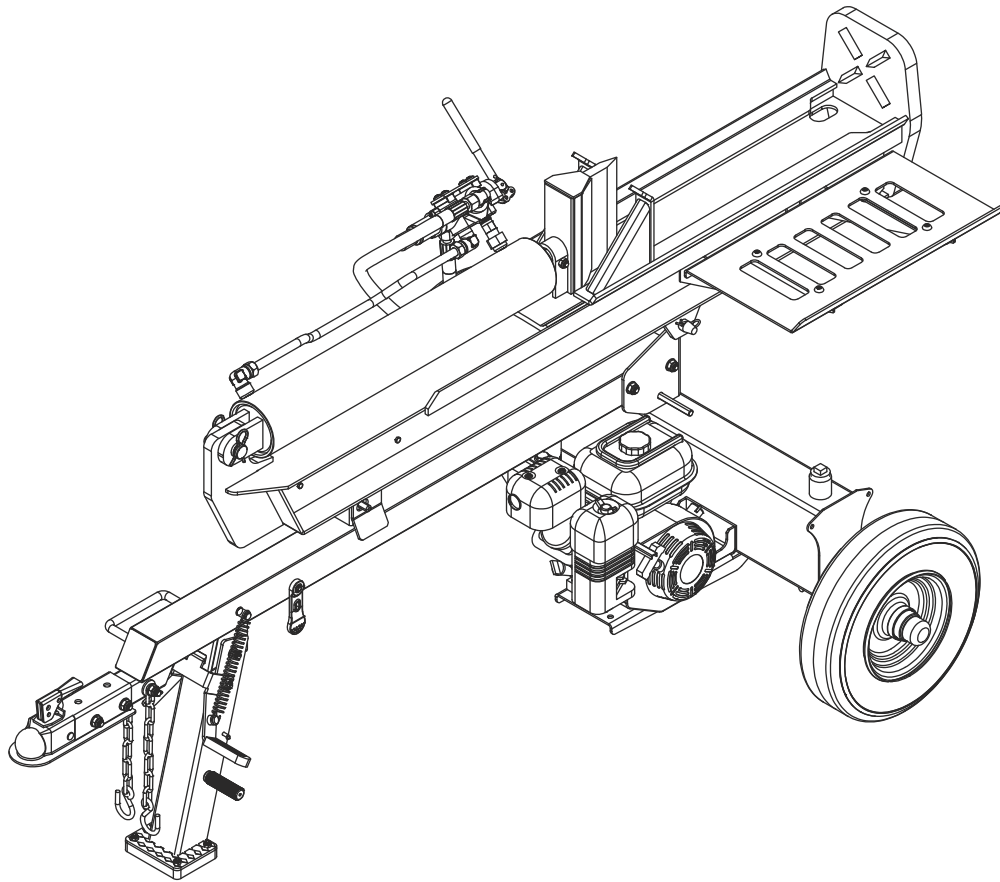




27-TON, 32-TON & 37-TON VERTICAL/HORIZONTAL LOG SPLITTERS



Operation Manual

MODEL #'s BDFNA27T (27-Ton), BDFNA32T (32-Ton), BDFNA37T (37-Ton)



This safety alert symbol identifies important safety messages in this manual. Failure to follow this important safety information may result in serious injury or death.



For Service or Questions:

Call 888-376-7375



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IMPORTANT SAFETY INFORMATION



WARNING

WARNING: Read and understand the complete Operation Manual before assembling or using this product! Failure to comprehend and comply with warnings, cautions and instructions for assembly and operation could result in serious injury or death.



Do not permit children to operate this equipment at any time. Do not permit others that have not read and understood the complete Operation Manual to operate this equipment. Operation of power equipment can be dangerous. It is the sole responsibility of the operator to understand the assembly and safe operation of this product.

Call our customer service department at **888-376-7375** if you have any questions or concerns about the safe operation of this equipment.



DANGER

INTENDED USE

Do Not Use the log splitter for any purpose other than splitting wood, for which it was designed. Any other use is unauthorized and may result in serious injury or death.

PERSONAL PROTECTIVE EQUIPMENT

When operating this log splitter it is essential that you wear safety gear including goggles or safety glasses, steel toed shoes and tight fitting gloves (no loose cuffs or draw strings). Always wear ear plugs or sound deafening headphones to protect against hearing loss when operating this log splitter.



CAUTION

Do Not wear loose clothing or jewelry that can be caught by moving parts of the log splitter. Keep clothing and hair away from all moving parts when operating this log splitter.



IMPORTANT SAFETY INFORMATION

SAFETY DECALS

Make sure all safety warning decals are attached and in readable condition. Replace missing or defaced decals. Call **888-376-7375** for replacement decals.

WARNING ATTENTION

To minimize the risk to you or others of serious injury or death:

- Read and understand the owner's manual and engine manual before assembling, operating, towing, or servicing the log splitter.
- Only one person should operate and load logs onto the log splitter. Stay in the manufacturer's designated operator zone. All pets and bystanders should keep away.
- Always wear ANSI approved head, eye, hearing, foot, and hand protection while operating the log splitter.
- Never step or reach over the log splitter during operation.
- Ensure that body, limbs, and clothing are away from moving parts while operating the log splitter.
- Always grab logs by the sides when loading.
- Always operate the log splitter outdoors.
- Never use your hands to check for high pressure oil leaks.
- Never operate if tired or under the influence of alcohol or drugs.

Afin de réduire le risque de blessures ou de mort pour vous-même et pour les autres :

- Lire et comprendre le manuel d'utilisation et le manuel du moteur avant d'assembler, utiliser, remorquer, ou entretenir la fendeuse de bois.
- Une seule personne à la fois devrait utiliser la fendeuse de bois et la charger de bûches. Rester dans la zone de travail désignée par le fabricant. Tenir les animaux et passants à distance.
- Toujours porter un équipement de sécurité approuvé pour la tête, les yeux, l'ouïe, les pieds et les mains lorsque vous utilisez la fendeuse de bois.
- Ne jamais monter ou se pencher au-dessus de la fendeuse de bois lorsque celle-ci est en marche.
- S'assurer que votre corps, vos membres, et vos vêtements sont loin des pièces en mouvement durant l'utilisation de la fendeuse de bois.
- Toujours attraper les bûches par les côtés lorsque vous les chargez sur la fendeuse.
- Toujours utiliser la fendeuse de bois à l'extérieur.
- Ne jamais utiliser les mains pour vérifier les fuites d'huile sous haute pression.
- Ne jamais utiliser cette machine si vous êtes fatigué(e) ou sous l'influence de l'alcool ou de drogues.

OPERATING INSTRUCTIONS
MODE D'EMPLOI

1. Ensure that the log splitter is on a stable, flat surface.
2. Start the engine and advance throttle to the maximum.
3. Position log onto the beam up against the foot plate.
Note: Always split wood in the direction of the grain.
4. Move the control handle toward the foot plate to **EXTEND** the wedge or move the control handle away from the foot plate to **RETRACT** the wedge.

1. S'assurer que la fendeuse de bois est sur une surface plane et stable.
2. Démarrer le moteur et avancer l'accélérateur au maximum.
3. Positionner la bûche sur le vérin, contre la plaque d'appui.
Remarque : Toujours fendre le bois dans le sens du grain.
4. Bouger la poignée de contrôle en direction de la plaque d'appui pour **ÉTIRER** le vérin, ou bouger la poignée de contrôle dans la direction opposée à la plaque d'appui pour **RÉTRACTER** le vérin.

CONTROL VALVE OPERATION
UTILISATION DE LA SOUPAPE DE CONTRÔLE

RETRACT
RÉTRACTER

EXTEND
ÉTIRER

*For repair or service please call 1-888-376-7375
Pour toute réparation ou service, merci d'appeler le 1-888-376-7375*

Operation Decal Part # 107196

WARNING ATTENTION

EQUIPMENT OPERATION SHALL ONLY BE PERFORMED IN THE DESIGNATED OPERATOR ZONE BY ONE PERSON
UTILISER CET ÉQUIPEMENT SEUL, DEPUIS LA ZONE DE L'OPÉRATEUR DÉSIGNÉE EN ORANGE

HORIZONTAL OPERATION
POSITION HORIZONTALE

VERTICAL OPERATION
POSITION VERTICALE

OPERATOR ZONE
ZONE DE L'OPÉRATEUR

107199

Operator Zone Decal Part # 107199

ATTENTION

FILL WITH AW46 HYDRAULIC FLUID, START ENGINE, CYCLE CYLINDER 3 - 4 TIMES, STOP ENGINE AND REFILL BEFORE OPERATION.

REMPLEZ DE FLUIDE HYDRAULIQUE AW46, DÉMARREZ LE MOTEUR, ACTIONNEZ LE VÉRIN 3-4 FOIS, ARRÊTEZ LE MOTEUR ET RE-REMPLISSEZ AVANT UTILISATION.

108365

Hydraulic Fluid Decal Part # 108365

NOTICE
AVERTISSEMENT

Do not thread in the dipstick when checking the hydraulic oil level. The oil level needs to be kept on the line below the "MAX" indicated on the dipstick. Never fill the tank above the "MAX" line. Recommended oil viscosity is based on the outside operating temperatures in the table below. Ne pas enfoncer la jauge lors du contrôle de niveau d'huile hydraulique. Le niveau d'huile doit être maintenu à la ligne sous « MAX » indiquée sur la jauge. Ne pas remplir le réservoir au-dessus de la ligne « MAX ». La viscosité de l'huile recommandée est basée sur les températures extérieures de fonctionnement mentionnées dans le tableau ci-dessous.

Automatic Transmission Fluid		Hydraulic Oil																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>-20</td><td>0</td><td>10</td><td>20</td><td>32</td><td>40</td><td>50</td><td>60</td><td>80</td><td>100</td></tr> <tr><td>-30</td><td>-20</td><td>-10</td><td>0</td><td>10</td><td>20</td><td>30</td><td>40</td><td></td><td></td></tr> </table>		-20	0	10	20	32	40	50	60	80	100	-30	-20	-10	0	10	20	30	40			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2">AW46</td><td colspan="2">AW32</td></tr> </table>		AW46		AW32	
-20	0	10	20	32	40	50	60	80	100																		
-30	-20	-10	0	10	20	30	40																				
AW46		AW32																									

Solid zone: Recommended Zone solide: Recommandée Hatched zone: Acceptable Zone hachurée: Acceptable

Oil Level Decal Part # 107198

DANGER

PINCH POINT HAZARD
KEEP CLEAR DURING OPERATION
RISQUE DE PINCEMENT
ET D'ÉCRASEMENT
NE PAS S'APPROCHER LORS DU FONCTIONNEMENT

107197

Pinch Point Decal Part # 107197

WARNING ATTENTION

TO AVOID SERIOUS INJURY OR DEATH

- Read the Operation Manual on how to attach the coupler to the hitch ball and how to tow safely.
- Ensure the correct ball size is being used.
- Do not exceed hitch ball or coupler load limits.
- Attach and secure safety chains prior to towing.
- Do not exceed max towing speed of 45 mph.
- Avoid sharp turns and steep angles.
- Check tightness of coupler before towing.
- Replace hitch ball or coupler if damaged.

AFIN d'ÉVITER DES BLESSURES GRAVES OU LA MORT

- Lire et comprendre les pages du manuel d'utilisation consacrées à comment attacher correctement le verrou d'attelage sur la boule et comment remorquer en toute sécurité.
- Vous assurer que vous utilisez la bonne taille de boule.
- Ne pas dépasser les limites de charge de la boule ou du verrou d'attelage.
- S'assurer que les chaînes de sécurité sont attachées avant de remorquer.
- Ne pas dépasser la vitesse de remorquage maximum de 72 km/h (45mph).
- Éviter de tourner brusquement et à des angles élevés.
- Vérifier que le verrou d'attelage est bien serré chaque fois avant de remorquer.
- Remplacer la boule ou le verrou d'attelage si ceux-ci sont endommagés.

107201

Warning Decal Part # 107201

CAUTION PRUDENCE

HOT SURFACE
SURFACE CHAUDE
DO NOT TOUCH
NIE PAS TOUCHER

107200

Hot Surface Decal Part # 107200

IMPORTANT SAFETY INFORMATION



DANGER

GENERAL SAFETY

Failure to follow warnings, cautions, assembly and operation instructions in the Operation Manual may result in serious injury or death.

Read the Operation Manual before operation.

- **Do not** permit children to operate this equipment at any time. Do not permit others that have not read and understood the complete Operation Manual to operate this equipment.
- Keep all people and pets a minimum of 10 feet away from the work area when operating this log splitter. Only the operator is to be near the log splitter during use.
- **Do not** operate the log splitter when under the influence of alcohol, drugs or medication.
- **Do not** allow a person who is tired or otherwise impaired or not completely alert to operate the log splitter.

PREPARATION OF THE LOG

Both ends of the log should be cut as square as possible to prevent the log from rotating out of the splitter during operation.

Do not split logs greater than 26 in. in length.



DANGER

WORK AREA

- **Do not** operate the log splitter on icy, wet, muddy or otherwise slippery ground. **ONLY** operate your log splitter on level ground. **Operating on a slope could cause the log splitter to roll over or logs to fall off of the equipment, which could result in injury.**
- **Do not** operate the log splitter in an enclosed area. Exhaust fumes from the engine contain carbon monoxide which can be harmful or deadly when inhaled.
- **Do not** move the log splitter over hilly or uneven terrain without a tow vehicle or adequate help.
- Use a tire chock or block on the wheels to prevent movement of the log splitter while in operation.
- Operate the log splitter in daylight or under good artificial light.
- Keep the work area free of clutter. Remove split wood from around the log splitter immediately after each use to avoid potential tripping.

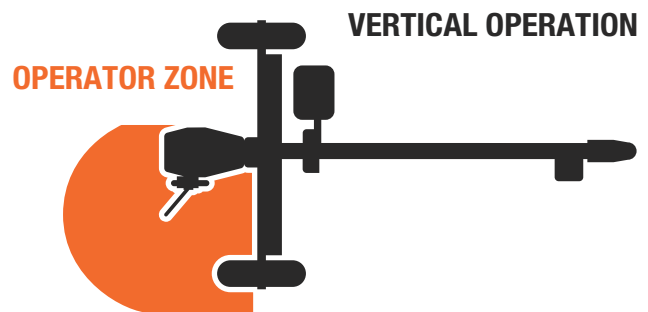
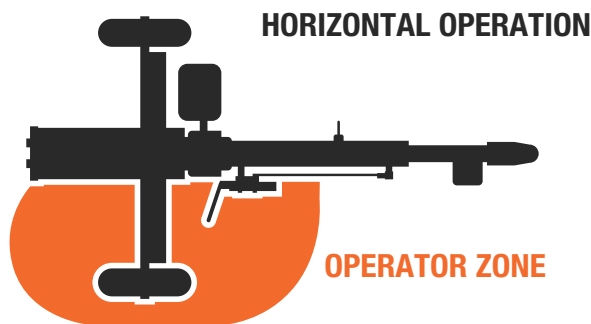
IMPORTANT SAFETY INFORMATION

OPERATION OF THE LOG SPLITTER

Operate the log splitter from within the operation zone as shown in the diagrams below. The operator has the safest and most efficient access to the control valve and the beam in these locations.



Failure to operate the log splitter in this position can result in serious injury or death.



- **Make sure the operator knows how to stop and disengage the controls before operating.**
- **Do not place hands or feet between the log and splitting wedge during forward or reverse stroke. Serious injury or death could result.**
- **Do not** straddle or step over the log splitter during operation.
- **Do not** reach or bend over the log splitter to pick up a log.
- **Do not** attempt to split two logs on top of each other.
- **Do not** attempt to cross split a log.
- **Do not** attempt to load your log splitter when the ram or wedge is in motion.
- Use your hand to operate the control lever on the valve. Do not use your foot, a rope or any extension device.
- **Do not** move the log splitter while the engine is running.
- **Never leave the equipment unattended while the engine is running.** Shut off the engine even if you are leaving the log splitter for a short period of time.
- Avoid contact with the muffler and other hot areas of the engine during operation or after running to prevent burns.

IMPORTANT SAFETY INFORMATION

REPAIR AND MAINTENANCE



- **Do not operate the log splitter when it is in poor mechanical condition or in need of repair.** Frequently check that all nuts, bolts, screws, hydraulic fittings and hose clamps are tight.
- **Do not** alter the log splitter in any manner. Any alteration will void the warranty and could cause the log splitter to be unsafe to operate. Perform all recommended maintenance procedures before using the log splitter. Replace all damaged or worn parts immediately.
- **Do not** tamper with the engine to run it at excessive speeds. The maximum engine speed is preset by the manufacturer and is within safety limits. See engine manual.
- Remove the spark plug wire before performing any service or repair on the log splitter.
- **Always check the level of hydraulic oil and engine oil before operation.**
- Replacement parts must meet manufacturer's specifications.

HYDRAULIC SAFETY

The hydraulic system of the log splitter requires careful inspection along with the mechanical parts. Be sure to replace frayed, kinked, cracked or otherwise damaged hydraulic hoses or hydraulic components.

- **Check for hydraulic fluid leaks** by passing a piece of paper or cardboard underneath or over the area of the leak. **Do not check for leaks with your hand.** Fluid escaping from the smallest hole, under pressure, can have enough force to penetrate the skin causing serious injury or death.
- **Seek professional medical attention immediately if injured by escaping hydraulic fluid.** Serious infection or reaction can develop if medical treatment is not administered immediately.
- Relieve all pressure by shutting off the engine and moving the valve control handle back and forth should it become necessary to loosen or remove any hydraulic fitting.
- **Do not** remove the cap from the hydraulic tank or reservoir while the log splitter is running. The tank could contain hot oil under pressure which could result in serious injury.
- **Do not** adjust the hydraulic valve. The pressure relief valve on the log splitter is preset at the factory. Only a qualified service technician should perform this adjustment.

IMPORTANT SAFETY INFORMATION

FIRE PREVENTION



CAUTION

- **Do not** operate the log splitter near an open flame or spark. Hydraulic oil and gasoline are flammable and can explode.
- **Do not** fill the gas tank while the engine is hot or running. Allow the engine to cool before refueling.
- **Do not** smoke while operating or refueling the log splitter. Gas fumes can easily explode.
- Refuel the log splitter in a clear area with no gas fumes or spilled gas. Use an approved fuel container. Replace the gas cap securely. If gasoline has spilled, move the log splitter away from the area of the spill and avoid creating any source of ignition until the spilled gas has evaporated.
- Keep a Class B fire extinguisher on hand when operating this log splitter in dry areas as a precautionary measure against possible flying sparks.
- Drain the fuel tank prior to storage to avoid the potential fire hazard. Store gasoline in an approved, tightly sealed container. Store the container in a cool, dry place.
- Turn the fuel shut off valve on the engine to the “OFF” position before towing the log splitter. Failure to do so may result in flooding the engine.



CAUTION

IMPORTANT NOTE:

This log splitter is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the state of California a spark arrester is required by law. Other states have similar laws.

Federal laws apply on federal lands. A spark arrester muffler (optional by manufacturer) is available as an accessory at your nearest engine dealer. Always check the legal requirements in your area.

IMPORTANT SAFETY INFORMATION



TOWING SAFETY

- Check all local and state regulations regarding towing, licensing, and lights before towing your log splitter.
- Check before towing to make sure that the log splitter is correctly and securely attached to the towing vehicle and that the safety chains are secured to the hitch or bumper of the vehicle with enough slack to allow turning. Always use a Class I, 2" ball with this log splitter.
- **Do not** carry any cargo or wood on the log splitter.
- **Do not** allow anyone to sit or ride on the log splitter.
- Disconnect the log splitter from the towing vehicle before operating it.
- Use care when backing up with the log splitter in tow to avoid jack-knifing. Allow for added length of the log splitter when turning, parking, crossing intersections and in all driving situations.
- **Do not exceed 45 mph when towing your log splitter.**
Towing the log splitter at speeds higher than 45 mph could result in loss of control, damage to the equipment, serious injury or death. Adjust towing speed for terrain and conditions. Be extra cautious when towing over rough terrain especially railroad crossings.

CALIFORNIA PROPOSITION 65 WARNING

This product can expose you to chemicals including lead and lead compounds which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

UNPACKING & ASSEMBLY

List of tools needed for assembly:

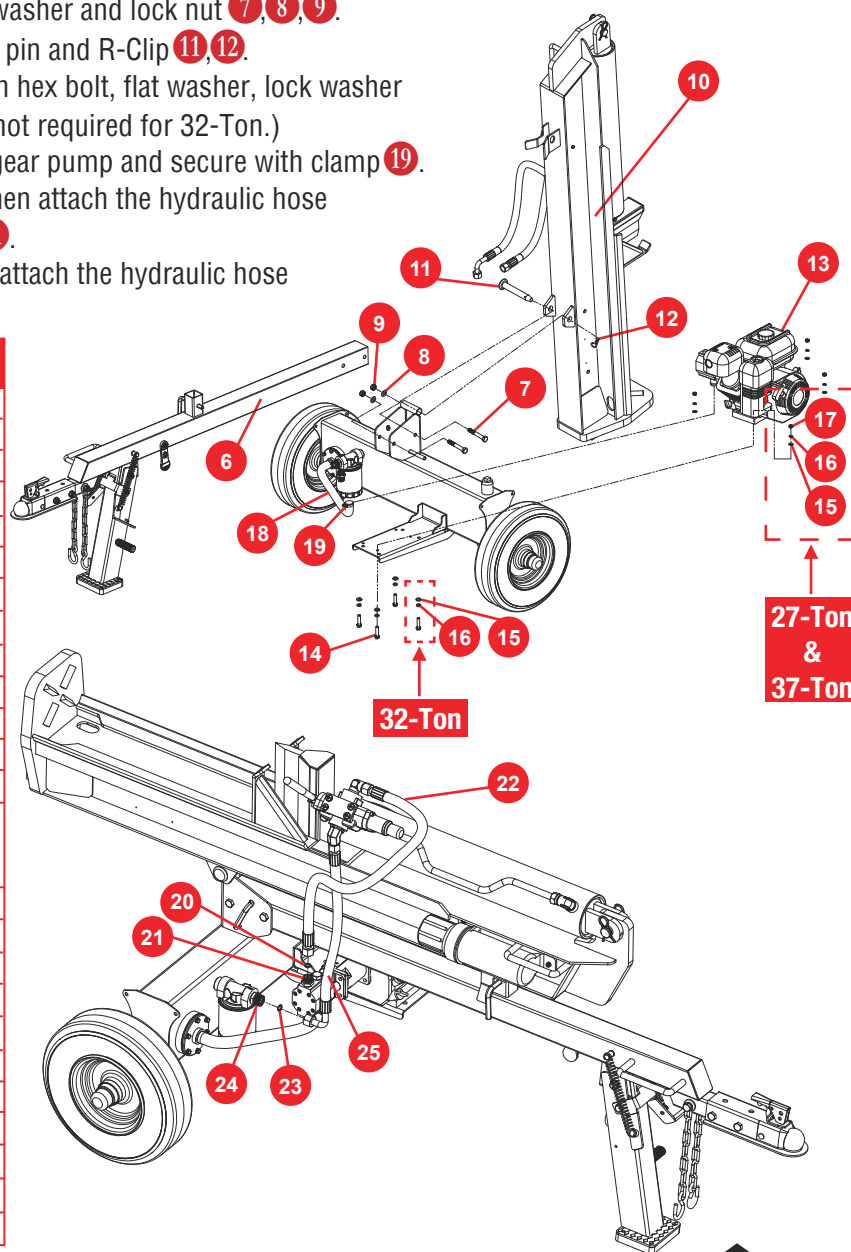
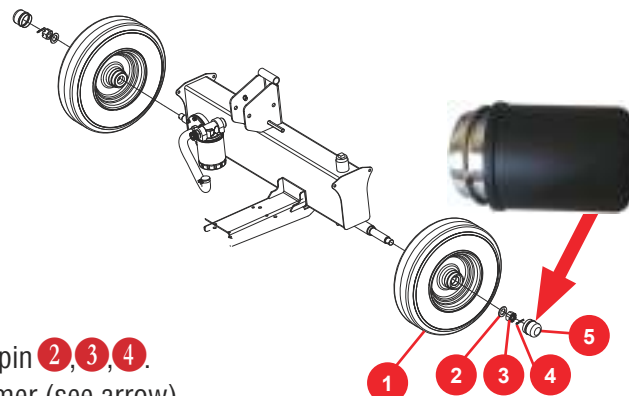
- Needle nose pliers • Scissors • Hammer or crowbar • Straight screwdriver
- (2) 13mm wrenches • (2) 17mm wrenches • (2) 19mm wrenches
- (1) Adjustable wrench



CAUTION

Two (2) people may be required for assembly.

1. Cut and remove banding using scissors.
2. Cut and remove sides and top of crate using hammer or crowbar, then take all parts out of the crate.
3. Attach tire **1** to the tank axle using flat washer, castle nut and cotter pin **2, 3, 4**.
Install the hub cap **5** on the end using hub cap tool and rubber hammer (see arrow).
4. Attach the tongue **6** to the tank using hex bolt, flat washer and lock nut **7, 8, 9**.
5. Connect the beam **10** and tank assembly using hitch pin and R-Clip **11, 12**.
6. Put the engine **13** on the mounting plate, tighten with hex bolt, flat washer, lock washer and nylon lock nut **14, 15, 16, 17**. (Note: Nuts **17** are not required for 32-Ton.)
7. Attach the suction line tube **18** to the bottom of the gear pump and secure with clamp **19**.
8. Put the O ring **20** on the gear pump connector **21**, then attach the hydraulic hose (valve-gear pump) **22** to the gear pump connector **21**.
9. Put the O ring **23** on the oil filter connector **24**, then attach the hydraulic hose (valve-oil filter) **25** to the oil filter connector **24**.

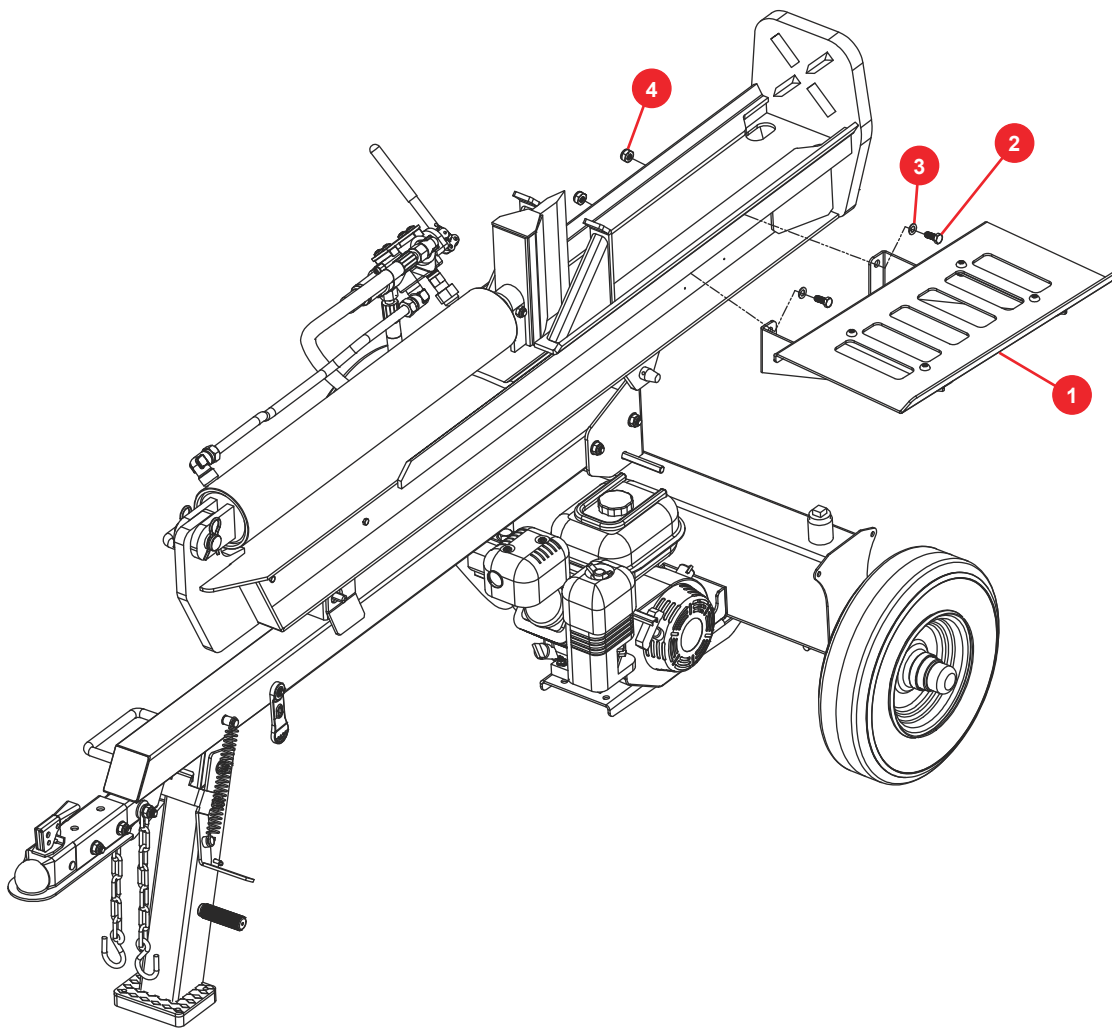


Item	Description	Qty.
1	Tire	2
2	Flat Washer, Ø20	2
3	Castle nut, M20 x 1.5	2
4	Cotter pin, Ø4 x 36	2
5	Hub Cap	2
6	Tongue	1
7	Hex Bolt, M12 x 100mm, G8.8	2
8	Flat Washer, Ø12	2
9	Nylon Lock Nut, M12	2
10	Beam	1
11	Hitch Pin	1
12	R-Clip	1
13	Engine	1
14	Hex Bolt, M8 x 40mm, G8.8 (27-Ton) Hex Bolt, M8 x 25mm, G8.8 (32-Ton) Hex Bolt, M10 x 50mm, G8.8 (37-Ton)	4
15	Flat Washer, Ø8 (27-Ton&32-Ton) / Ø10 (37-Ton)	4
16	Lock Washer, Ø8 (27-Ton&32-Ton) / Ø10 (37-Ton)	4
17	Nylon Lock Nut, M8 (27-Ton) / M10 (37-Ton)	4
18	Suction Line Tube	1
19	Hose Clamp	1
20	O Ring, Ø11 x 2.5 (27-Ton) / Ø14 x 2.5 (32-Ton & 37-Ton)	1
21	Gear Pump Connector	1
22	Hydraulic Hose (valve-gear pump)	1
23	O Ring, Ø17 x 2.5	1
24	Oil Filter Connector	1
25	Hydraulic Hose (valve-oil filter)	1

LOG CATCHER INSTALLATION

Installation

Install the log catcher assembly ① to the beam with hex bolt, M12 x 30mm ②; flat washer, Ø12 ③; nylon lock nut, M12 ④. Tighten all hardware.



Item #	Part #	Description	Qty.
1	LSP2702-00001	Log Catcher Kit	1
2	9101-12030-DX	Hex Bolt, M12 x 30mm, G8.8	2
3	9301-12000-DX	Flat Washer, Ø12	2
4	9206-12000-DX	Nylon Lock Nut, M12	2

OPERATING INSTRUCTIONS



DANGER

WARNING: Read and understand the complete Operation Manual before assembling or using this product! Failure to comprehend and comply with warnings, cautions and instructions for assembly and operation could result in serious injury or death.

Do not permit children to operate this equipment at any time.
Do not permit others that have not read and understood the complete Operation Manual to operate this equipment. Operation of power equipment can be dangerous. It is the sole responsibility of the operator to understand the assembly and safe operation of this product.

Call our customer service department at **888-376-7375**, if you have any questions or concerns about the safe operation of this equipment.



CAUTION

The hydraulic reservoir should be filled with hydraulic fluid and the engine should be filled with engine oil before starting or operation.

When checking the hydraulic fluid or the engine oil, to get an accurate reading remove the dipstick, wipe it off and place it in the top of the threads without screwing it down.

On the Engine, you should see the oil at the top of the X's on the dipstick. If it is below or above this mark and the oil level is over or underfilled (by even one ounce), this will trip off the low oil engine sensor and prevent the engine from starting.

On the hydraulic dipstick, you want to read between minimum and maximum. If you are below Minimum, you can damage your hydraulic components. If you are above the Maximum level, this will kick the excess fluid out of the vented cap.

STEP 1: Add approximately 3.7 gallons (27-Ton) / 5.28 gallons (32-Ton) / 5.55 gallons (37-Ton) of hydraulic fluid. The remaining hydraulic fluid will be added after the cylinder is cycled. AW32 or AW46 hydraulic oil is recommended. Automatic transmission fluid can be substituted instead of hydraulic oil when temperatures are below 32°F. Use only clean oil and take care to prevent dirt from entering the hydraulic reservoir.

OPERATING INSTRUCTIONS

ENGINE OIL RECOMMENDATIONS

Use 4-stroke automotive detergent oil. SAE 10W-30 is recommended for general use. Refer to the SAE Viscosity Grades chart in your engine owner's manual for average temperature ranges. The engine manufacturer recommends using API SERVICE Category SE or SF oil. The engine oil capacity is 20 oz. for FNA CRX210 (27-Ton), 27 oz. for FNA CRX275 (32-Ton) and 37 oz. for FNA CRX340 (37-Ton).

Always check oil level before starting the engine and keep level full.

Step 2: After the hydraulic reservoir and the engine crankcase are filled with oil, start the engine. The hydraulic pump is self-priming. With the engine running, move the hydraulic valve lever toward the foot plate. This will cause the cylinder to extend and expel air. When the cylinder is fully extended, retract it. Repeat this procedure several times. An erratic movement of the cylinder indicates that there is still air in the system. Add about 1.0 to 1.5 gallons of hydraulic fluid. Five gallons will register just above the top fill line on the dip stick. The total capacity of the entire hydraulic system is 5.55 gallons with 3.7 gallons (27-Ton), 6.87 gallons with 5.28 gallons (32-Ton) and 7.13 gallons with 5.55 gallons (37-Ton) of hydraulic fluid the minimum required to operate.

NOTE: If the tank is overfilled it will expel oil from the breather cap when the cylinder is retracted. Cycle the cylinder again until it has a constant speed which indicates that all air has been expelled.

STARTING INSTRUCTIONS

NOTE: Refer to the Engine Owner's Manual for complete information on starting, maintenance and troubleshooting.

1. Move the fuel valve lever to the ON position.
2. To start a cold engine, move the choke lever to the CLOSE position.
To restart a warm engine, leave the choke lever in the OPEN position.
3. Move the throttle lever away from the SLOW position, about 1/3 of the way toward the FAST position.
4. Turn the engine switch to the ON position.
5. Pull the starter grip until you feel resistance, then pull briskly. Return the starter grip gently.
6. If the choke lever has been moved to the CLOSE position to start the engine, gradually move it to the OPEN position as the engine warms up.
7. To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, move the throttle lever to the SLOW position and then turn the engine switch to the OFF position. Then turn the fuel valve lever to the OFF position.

For further information on starting and stopping the engine, refer to your engine owner's manual.

OPERATING INSTRUCTIONS



CAUTION

CAUTION: Turn Fuel Shut Off Valve to the “Off” position before towing to avoid flooding the engine.

NOTE: The engine’s maximum speed is factory preset at 3780 RPM as the no load speed. The throttle should be set at the maximum speed for wood splitting to reach the horsepower required for the pump.



WARNING

WARNING: Review safety information related to operation of the log splitter on pages 4-10 of this manual. Make sure that you have the recommended personal protective equipment described on page 4.

1. Set up the log splitter in a clear, level area and block the wheels. Make sure that the suction port on the tank is always on the lower side of the log splitter.
2. For horizontal operation place a log on the beam against the foot plate. Make sure the log is securely on the foot plate and against the beam. To split wood in the vertical position, release the pin on the beam latch located on the front end of the beam. Carefully tilt the beam up until the foot plate is sitting squarely on the ground and the log splitter is stable. Place the log on the foot plate against the beam. When the beam is returned to the horizontal position make sure the beam latch is securely locked down.
3. With the engine running, depress the valve handle so that the cylinder will drive the wedge into the log. Extend the cylinder until the log splits or to the end of its stroke. If the log has not completely split after the cylinder has reached the end of its extension, retract the cylinder.

IMPORTANT: Leaving the valve in the “actuate” position at the end of the stroke may damage the pump. Always use extra care when splitting logs with unsquare ends.

Store manuals in the Manual Cannister attached to the beam of the log splitter or file in a safe place for future reference.

OPERATING INSTRUCTIONS

NOTE: For operation in wooded areas, obtain a spark arrestor for the exhaust system. See the engine operating and maintenance manual and check with your authorized service center. See also Fire Prevention on page 9 of this manual.

IMPORTANT: To extend the life of the hydraulic cylinder avoid bottoming out the wedge plate to the foot piece.
To conform with industry safety recommendations the wedge stops 1/2 inches from the end of the stroke.

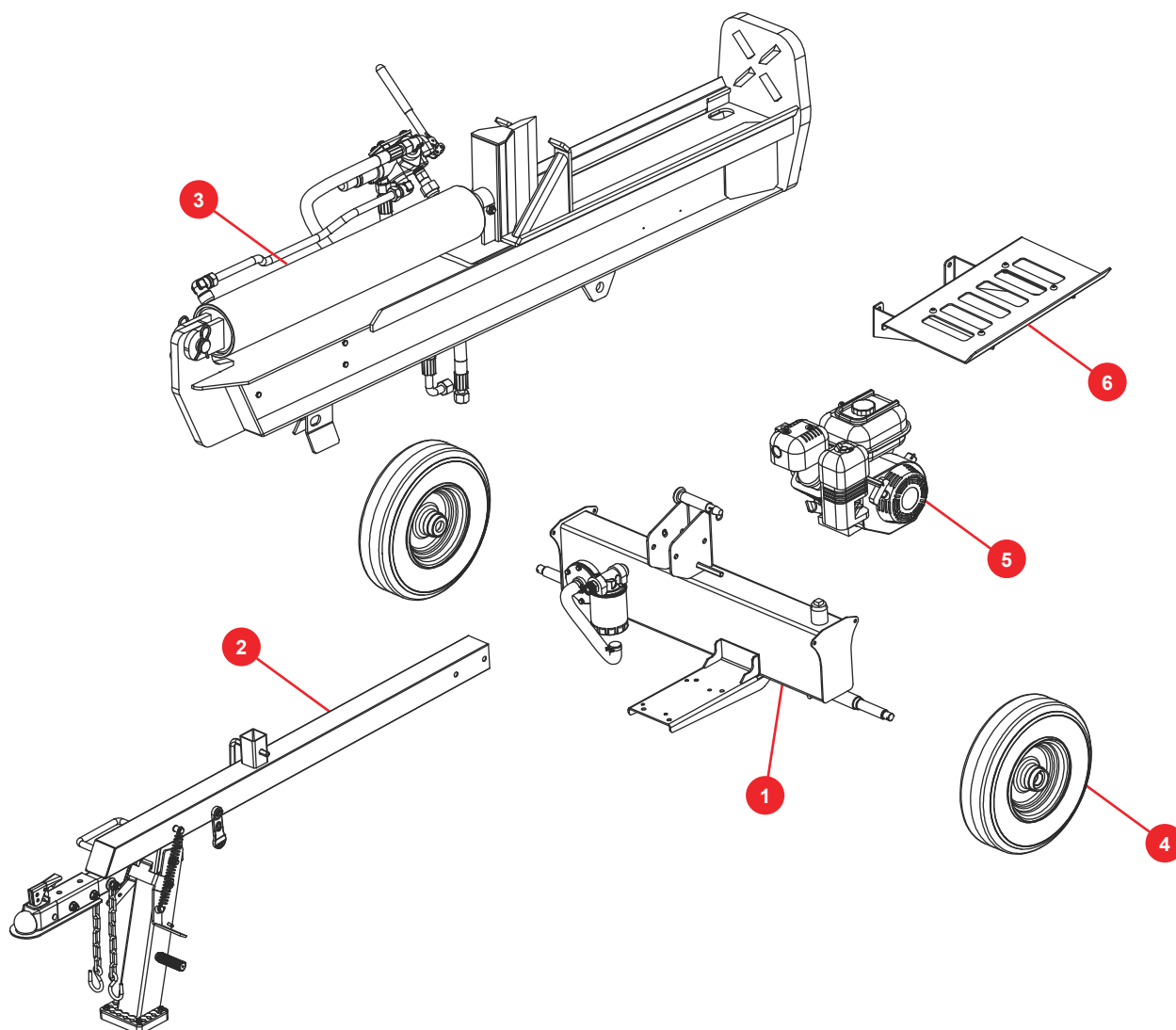
TOWING

This log splitter is equipped with pneumatic tires, a Class I coupler (2 in. diameter ball required) and safety chains. Before towing, the safety chains must be secured to the hitch or bumper of the vehicle. Local regulations should be checked regarding licensing, lights, towing, etc. Turn fuel shut off valve on the engine to the "Off" position prior to towing. Failure to do so may result in flooding the engine. Do not exceed 45 mph when towing this log splitter. See also Towing Safety on page 10 of this manual.

MAINTENANCE

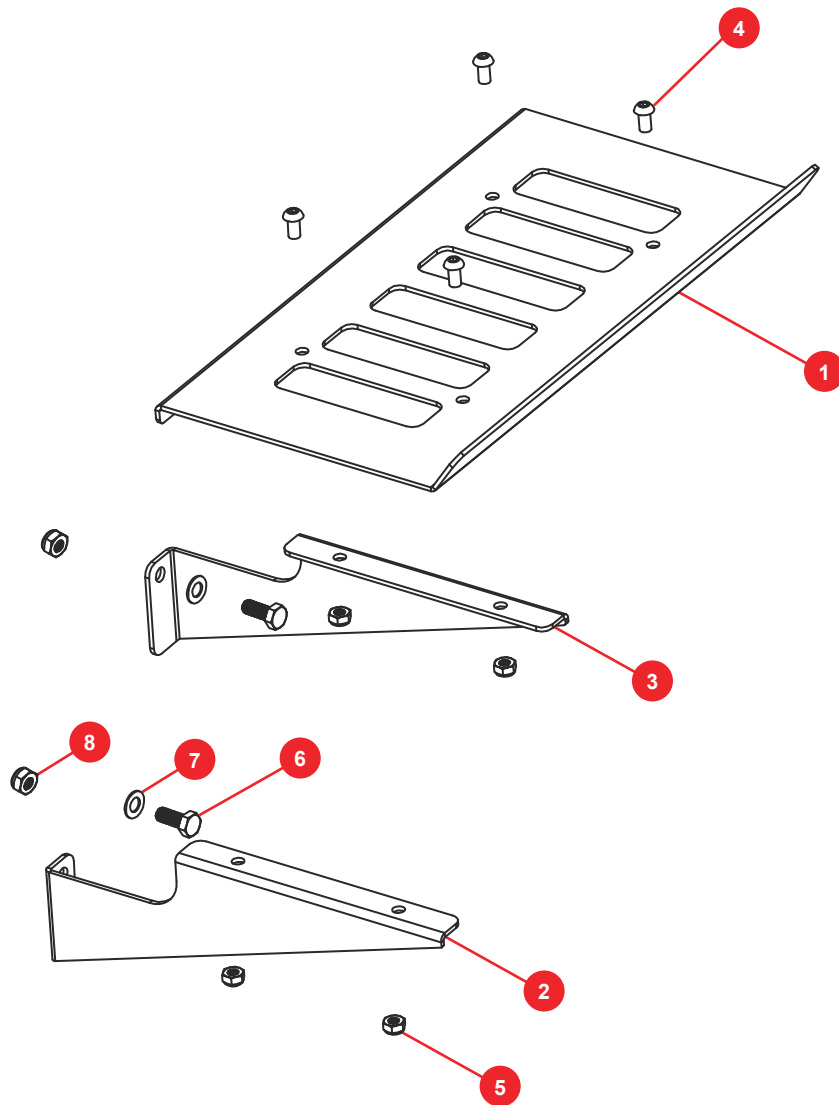
1. Consult the operating and maintenance instructions of the engine manufacturer for engine care and maintenance.
2. **Always check the oil level of the hydraulic reservoir before operation.** Operating the log splitter without an adequate oil supply will cause severe damage to the pump.
3. Change the oil filter after the first 25 hours of operation. There after change the oil filter every 100 hours or seasonally, whichever comes first.
4. To drain the hydraulic oil, loosen the clamp on the hose coming from the fitting on the bottom of the tank. It is located just to the right of the oil filter.
5. If the wedge becomes dull or nicked, it can be removed and sharpened. Remove the bolt that connects the wedge to the cylinder. The hose from the valve may need to be removed. Carefully lift the cylinder to allow the wedge to slide forward. The wedge can now be lifted off and sharpened.
6. Clean the breather cap after 25 hours of operation. Clean it more often when operated in dusty conditions. To clean, remove the breather cap from the tank and flush with kerosene or liquid detergent to remove the dirt.
7. See Repair and Maintenance on page 8 of this manual.
8. All replacement parts must meet manufacturer's specifications.

ASSEMBLY OVERVIEW



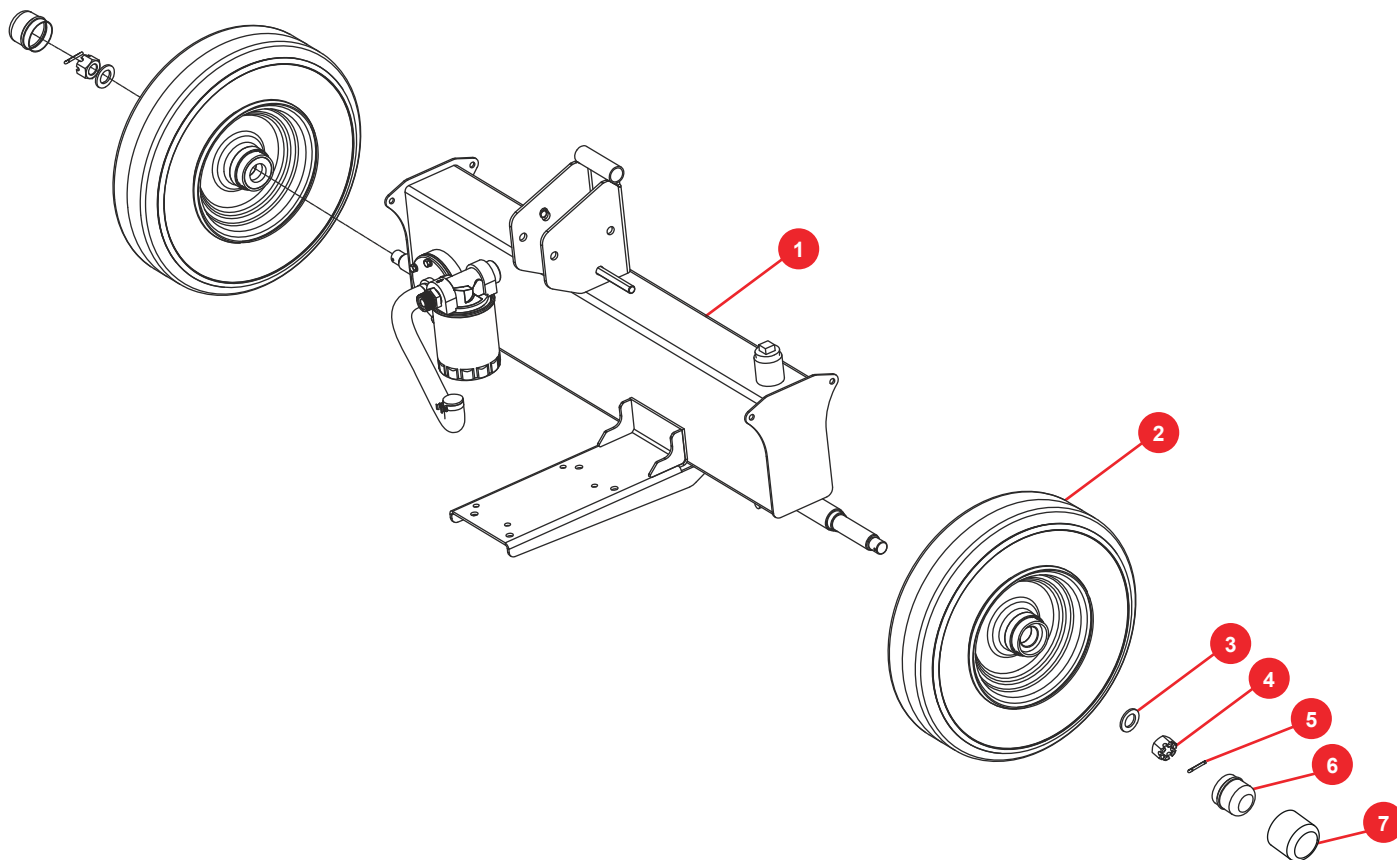
Item #	Part #	Description	Qty.
1	LSP25-03000 LSP30-03000	Tank Assembly (27-Ton) Tank Assembly (32-Ton & 37-Ton)	1
2	LSP2801-01000 & LSP2501-08000	Tongue & Stand Assembly	1
3	LSP2702-01000 & LSP25A-08000 LSP3202-01000 & LSP30B-03000 LSP3702-01000 & LSP37B-03000	Beam & Cylinder Assembly (27-Ton) Beam & Cylinder Assembly (32-Ton) Beam & Cylinder Assembly (37-Ton)	1
4	LSP25-14000	Wheel/Tire Assembly, 4.80 x 8 in.	2
5	109371 109372 109373	Engine, FNA CRX210 (27-Ton) Engine, FNA CRX275 (32-Ton) Engine, FNA CRX340 (37-Ton)	1
6	LSP2702-00001	Log Catcher Assembly	1

LOG CATCHER ASSEMBLY



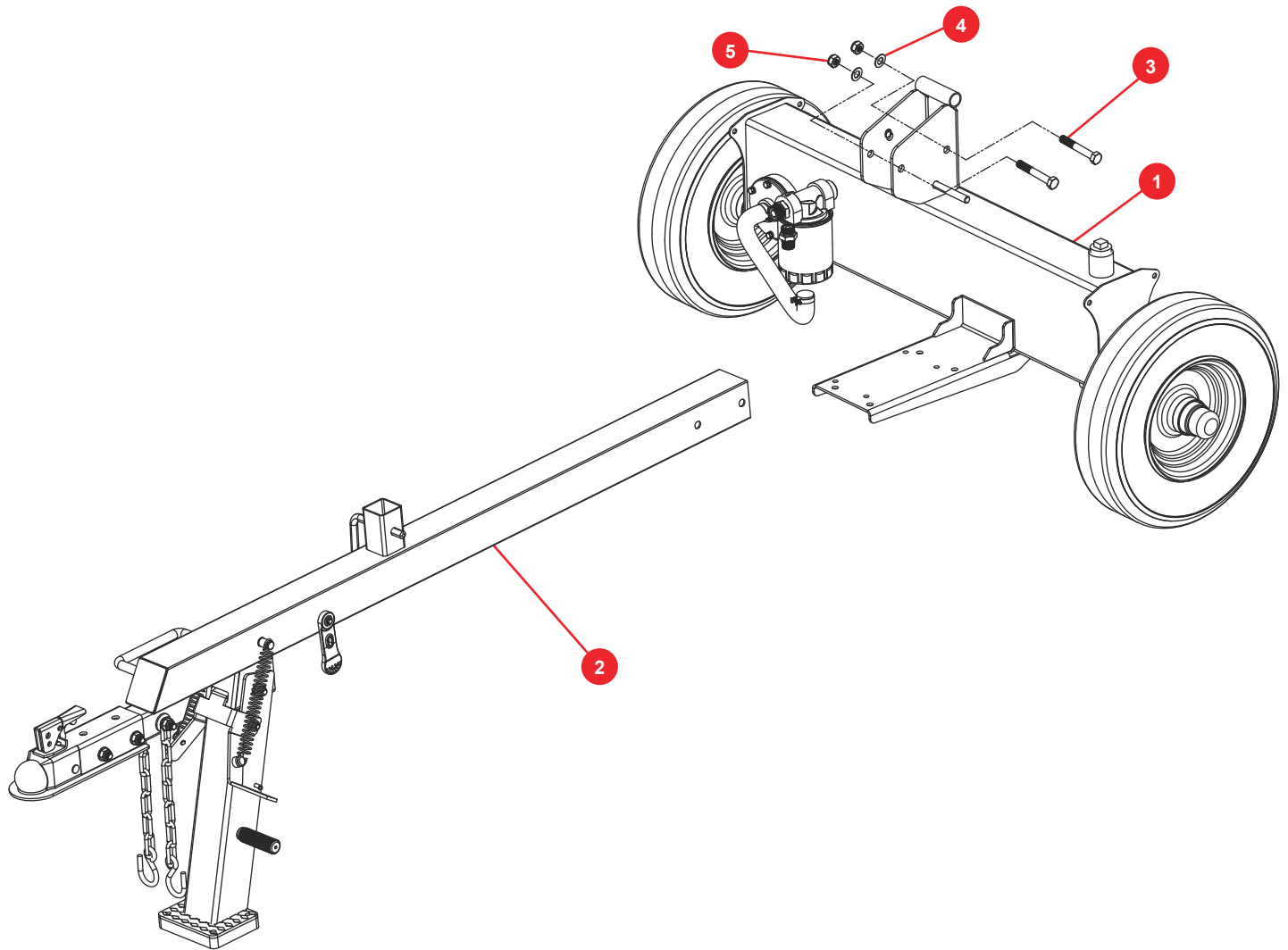
Item #	Part #	Description	Qty.
1	LSP2702-00001	Log Catcher Kit	1
2	LSP2702-00002	Log Catcher Support Bracket A	1
3	LSP2702-00003	Log Catcher Support Bracket B	1
4	9104-10020-DX	Button Head Screw, M10 x 20mm, G8.8	4
5	9206-10000-DX	Nylon Lock Nut, M10	4
6	9101-12030-DX	Hex Bolt, M12 x 30mm, G8.8	2
7	9301-12000-DX	Flat Washer, Ø12	2
8	9206-12000-DX	Nylon Lock Nut, M12	2

TANK & WHEEL ASSEMBLY



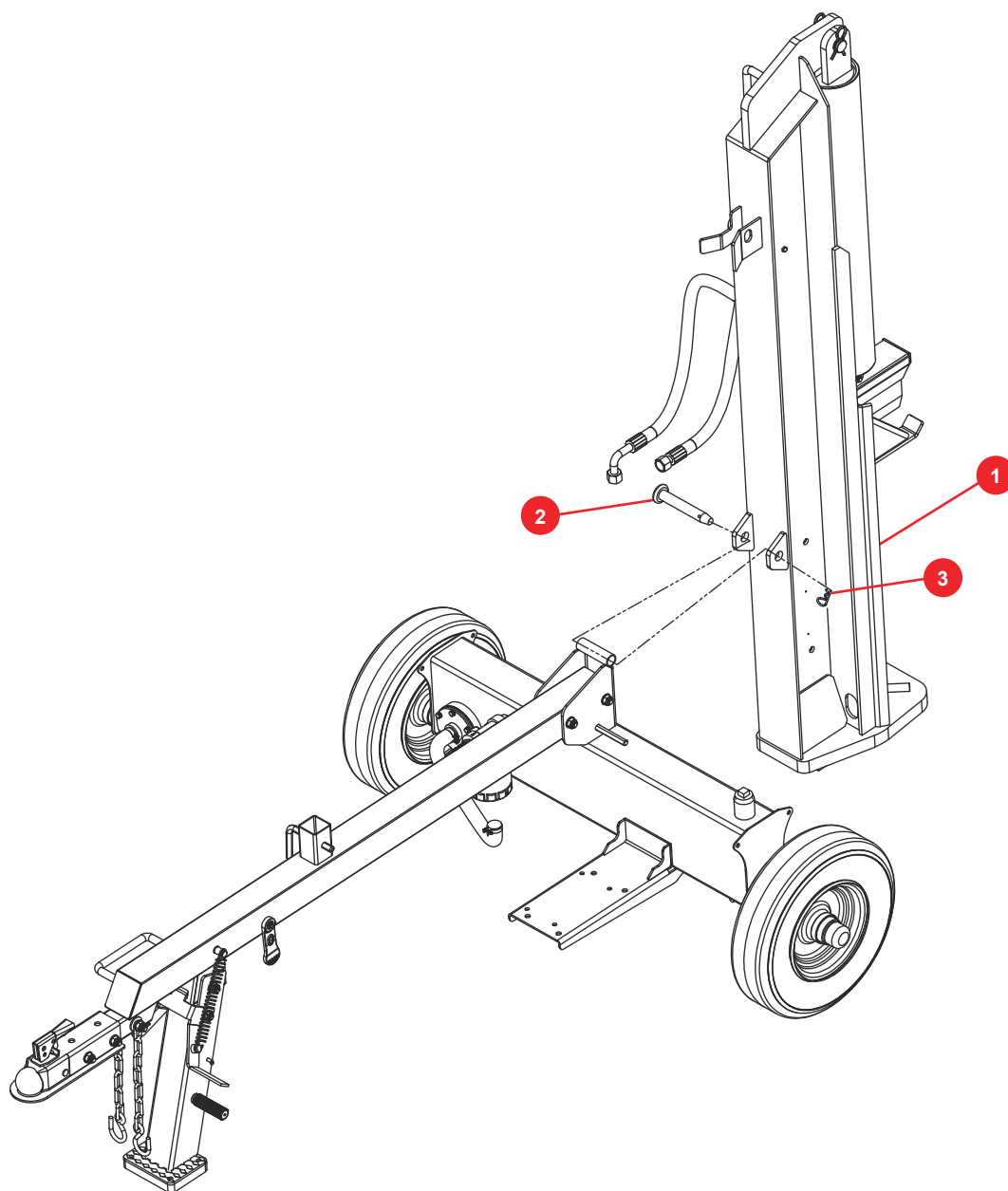
Item #	Part #	Description	Qty.
1	LSP25-03000	Tank Assembly (27-Ton)	1
	LSP30-03000	Tank Assembly (32-Ton & 37-Ton)	
2	LSP25-14000	Wheel/Tire Assembly, 4.80 x 8 in.	2
3	9301-20000-DX	Flat Washer, Ø20	2
4	LSP25-00020-FH	Slotted Nut, M20 x 1.5	2
5	9404-04036-DX	Cotter Pin, Ø4 x 36	2
6	LSP25-00009-DX	Hub Cap	2
7	/	Hub Cap Tool	1

TANK AND TONGUE ASSEMBLY



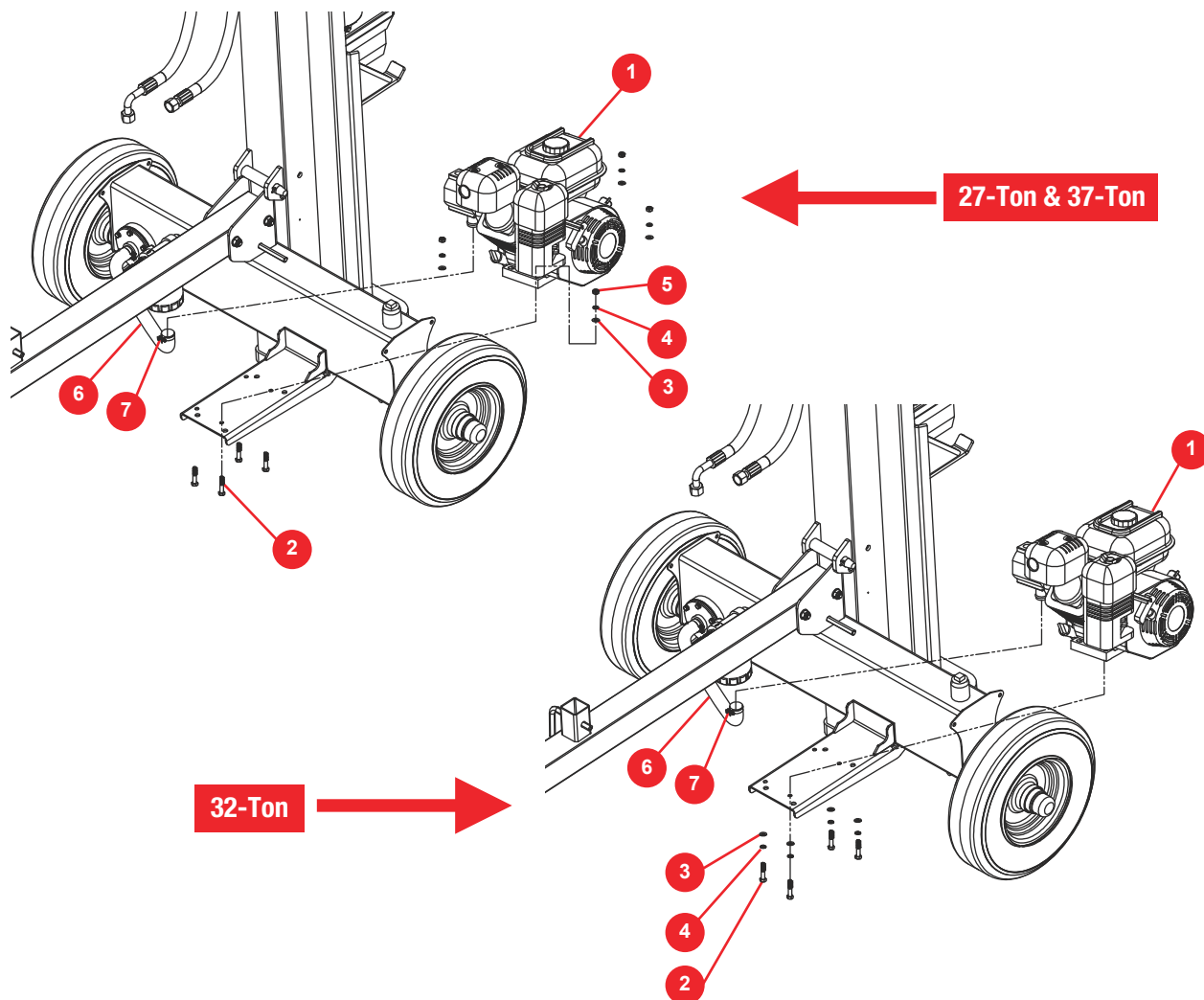
Item #	Part #	Description	Qty.
1	LSP25-03000 LSP30-03000	Tank Assembly (27-Ton) Tank Assembly (32-Ton & 37-Ton)	1
2	LSP2801-01000 & LSP2501-08000	Tongue & Stand Assembly	1
3	9101-12100-DX	Hex Bolt, M12 x 100mm, G8.8	2
4	9301-12000-DX	Flat Washer, Ø12	2
5	9206-12000-DX	Nylon Lock Nut, M12	2

BEAM AND TANK ASSEMBLY



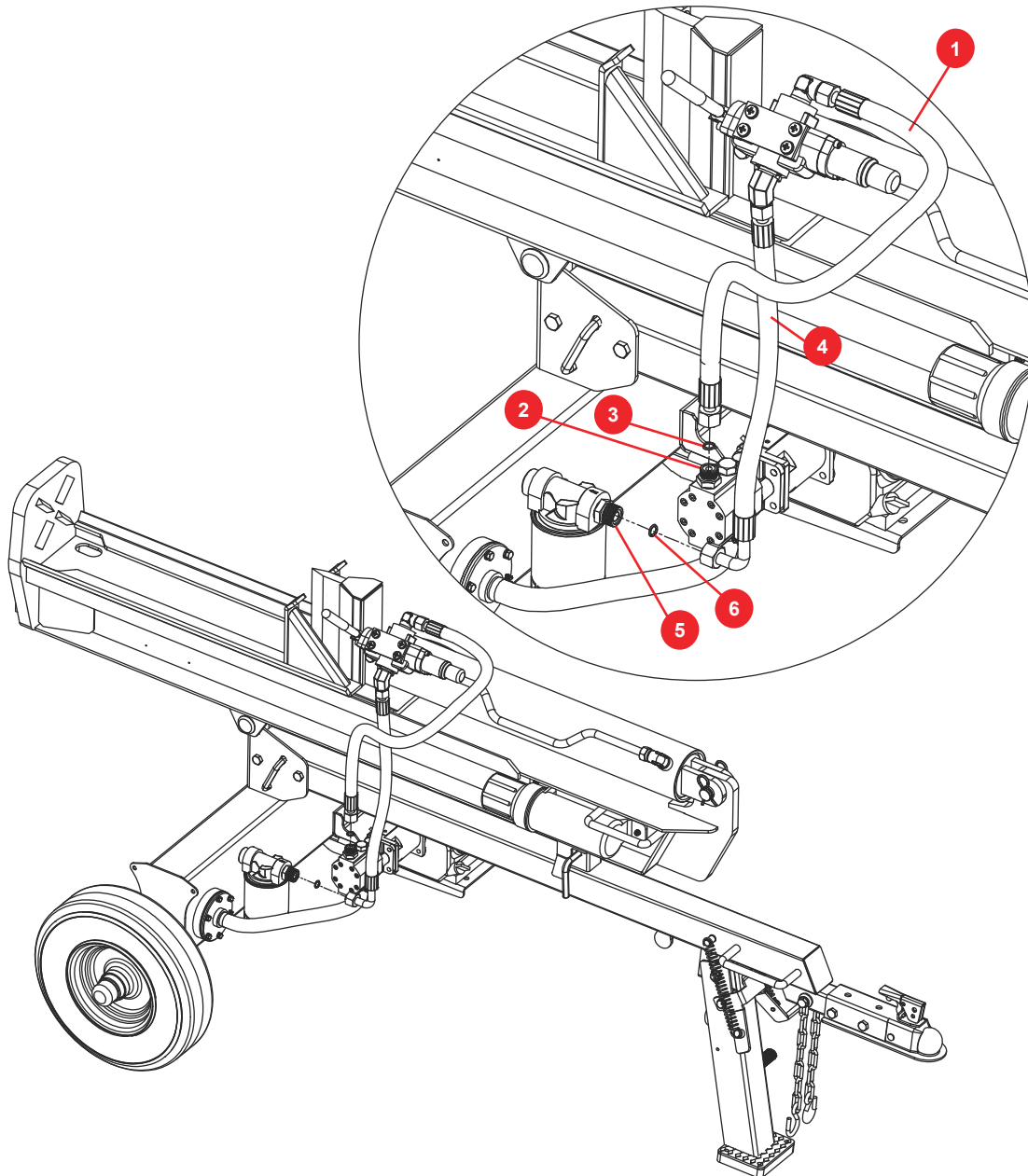
Item #	Part #	Description	Qty.
1	LSP2702-01000 & LSP25A-08000 LSP3202-01000 & LSP30B-03000 LSP3702-01000 & LSP37B-03000	Beam & Cylinder Assembly (27-T-on) Beam & Cylinder Assembly (32-T-on) Beam & Cylinder Assembly (37-T-on)	1
2	LSP3700-00001-DX	Hitch Pin	1
3	LSP25-00012-DX	R-Clip	1

ENGINE ASSEMBLY



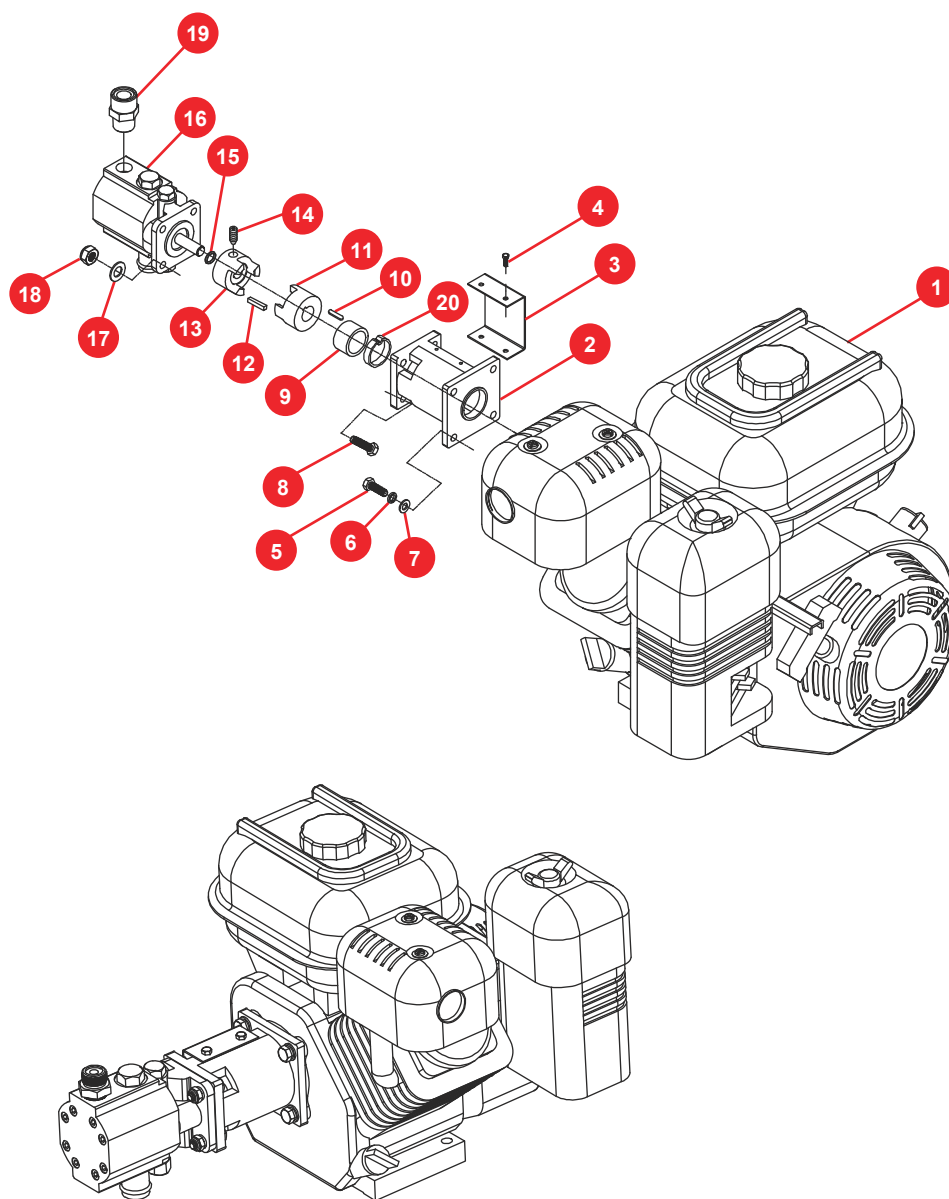
Item #	Part #	Description	Qty.
1	109371 109372 109373	Engine, FNA CRX210 (27-Ton) Engine, FNA CRX275 (32-Ton) Engine, FNA CRX340 (37-Ton)	1
2	9101-08040-DX 9101-08025-DX 9101-10050-DX	Hex Bolt, M8 x 40mm, G8.8 (27-Ton) Hex Bolt, M8 x 25mm, G8.8 (32-Ton) Hex Bolt, M10 x 50mm, G8.8 (37-Ton)	4
3	9301-08000-DX 9301-10000-DX	Flat Washer, Ø8 (27-Ton & 32-Ton) Flat Washer, Ø10 (37-Ton)	4
4	9306-08000-DX 9306-10000-DX	Lock Washer, Ø8 (27-Ton & 32-Ton) Lock Washer, Ø10 (37-Ton)	4
5	9206-08000-DX 9206-10000-DX	Nylon Lock Nut, M8 (27-Ton) Nylon Lock Nut, M10 (37-Ton)	4
6	LSP25-00018 LSP30-00008	Suction Line Tube, Wire Reinforced (27-Ton) Suction Line Tube, Wire Reinforced (32-Ton & 37-Ton)	1
7	LSP25-00011-DG	Hose Clamp	1

HYDRAULIC LINE ASSEMBLY



Item #	Part #	Description	Qty.
1	LSP30M-00016 LSP3700-00013	Hydraulic Hose, valve-gear pump (27-Ton) Hydraulic Hose, valve-gear pump (32-Ton &37-Ton)	1
2	LSP25-00014-DX LSA22-00005-DX	Gear Pump Outlet Connector (27-Ton) Gear Pump Outlet Connector (32-Ton &37-Ton)	1
3	9901-11*2.5 9901-14*2.5	O Ring, Ø11 x 2.5 (27-Ton) O Ring, Ø14 x 2.5 (32-Ton &37-Ton)	1
4	LSP30M-00017	Hydraulic Hose, valve-oil filter	1
5	LSP25-00007-DX	Oil Filter Straight Connector	1
6	9901-17*2.5	O Ring, Ø17 x 2.5	1

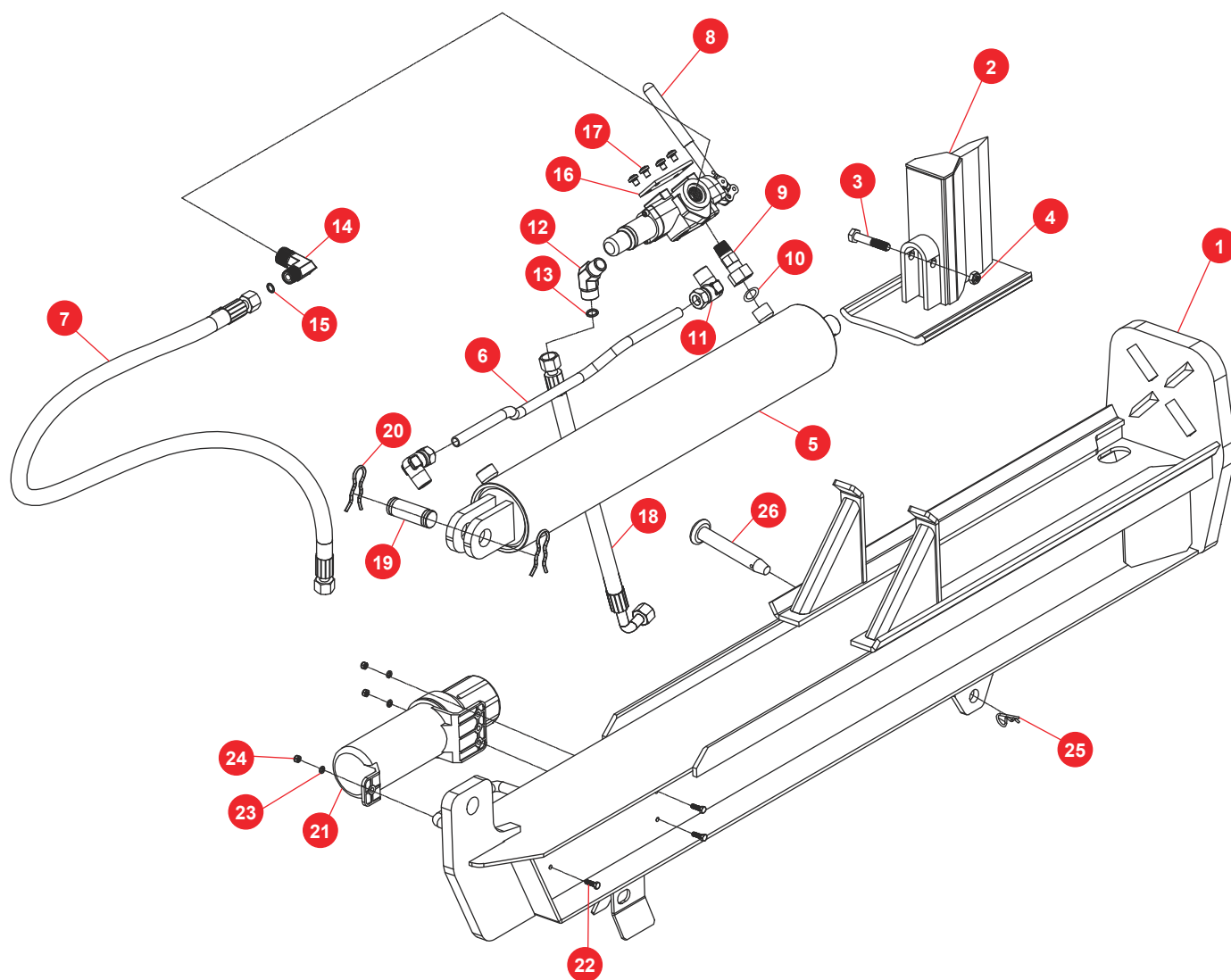
PUMP AND ENGINE ASSEMBLY



PUMP AND ENGINE ASSEMBLY

Item #	Part #	Description	Qty.
1	109371	Engine, FNA CRX210 (27-Ton)	1
	109372	Engine, FNA CRX275 (32-Ton)	
	109373	Engine, FNA CRX340 (37-Ton)	
2	LSP25-10005	Gear Pump Mount (27-Ton)	1
	LSP3203-01001	Gear Pump Mount (32-Ton)	
	LSP30A-10001	Gear Pump Mount (37-Ton)	
3	LSP25-10006	Guard (27-Ton)	1
4	9101-05010-DX	Hex Bolt, M5 x 10mm, G8.8 (27-Ton)	4
5	MZ01-08025-DX	Hex Bolt, 5/16-24UNF×1", G8.8	4
6	9306-08000-DX	Lock Washer, Ø8	4
7	9301-08000-DX	Flat Washer, Ø8	4
8	9101-08030-DX	Hex Bolt, M8 x 30mm, G8.8	4
9	LSP25-10004-DX	Engine Bushing (27-Ton)	1
	LSP3203-01002-DX	Engine Bushing (32-Ton)	
	LSP30A-10002-DX	Engine Bushing (37-Ton)	
10	LSP25-10010	Engine Flat Key (27-Ton)	1
	LSP3700-05004	Engine Flat Key (32-Ton & 37-Ton)	
11	LSP25-10002	Engine Coupler (27-Ton)	1
	LSP30A-10004	Engine Coupler (32-Ton & 37-Ton)	
12	LSP25-10009	Gear Pump Flat Key	1
13	LSP25-10003	Gear Pump Coupler (27-Ton)	1
	LSP35-02003	Gear Pump Coupler (32-Ton & 37-Ton)	
14	9121-06010-FH	Screw, M6 x 10mm	1
15	LSP25-10008-FH	Steel Wire Snap Ring for Shaft	1
16	LSP30-10001	Gear Pump 13/1.8 (27-Ton)	1
	LSP35-02006	Gear Pump 13/3.0 (32-Ton)	
	LSP37B-02001	Gear Pump 15/3.0 (37-Ton)	
17	9306-08000-DX	Lock Washer, Ø8	4
18	9206-08000-DX	Nylon Lock Nut, M8	4
19	LSP25-00014-DX	Gear Pump Outlet Connector (27-Ton)	1
	LSA22-00005-DX	Gear Pump Outlet Connector (32-Ton & 37-Ton)	
20	LSP3203-00001	Limit Bushing (32-Ton)	1

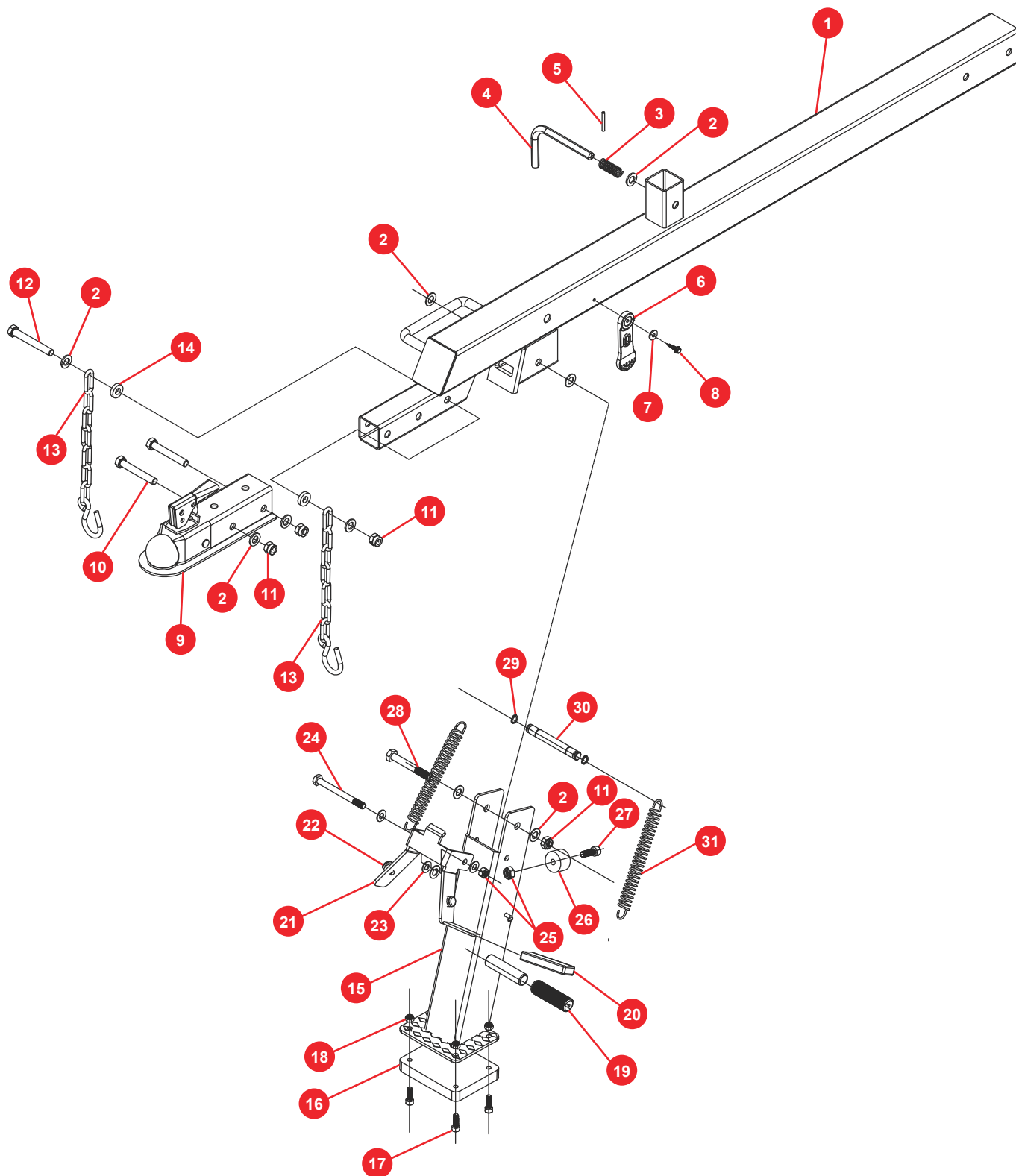
BEAM ASSEMBLY



BEAM ASSEMBLY

Item #	Part #	Description	Qty.
1	LSP2702-01000	Beam (27-Ton)	1
	LSP3202-01000	Beam (32-Ton)	
	LSP3702-01000	Beam (37-Ton)	
2	LSP2702-02000	Wedge, 9 in., (27-Ton)	1
	LSP3202-02000	Wedge, 9 in., (32-Ton)	
	LSP3702-02000	Wedge, 10 in., (37-Ton)	
3	9101-12065-DX	Hex Bolt, M12 x 65mm, G8.8 (27-Ton)	1
	9101-14080-DX	Hex Bolt, M14 x 80mm, G8.8 (32-Ton & 37-Ton)	
4	9206-12000-DX	Nylon Lock Nut, M12 (27-Ton)	1
	9206-14000-DX	Nylon Lock Nut, M14 (32-Ton & 37-Ton)	
5	LSP25A-08000	Hydraulic Cylinder (27-Ton)	1
	LSP30B-03000	Hydraulic Cylinder (32-Ton)	
	LSP37B-03000	Hydraulic Cylinder (37-Ton)	
6	LSP25-00001-DX	Tube	1
7	LSP30M-00016	Hydraulic Hose, valve-gear pump (27-Ton)	1
	LSP3700-00013	Hydraulic Hose, valve-gear pump (32-Ton & 37-Ton)	
8	LSA22-09000	Control Valve	1
9	LSP25-17000	Combination Connector	1
10	9901-15*2.5	O Ring, Ø15 x 2.5	1
11	LSP25-06000	Ferrule Connector	2
12	LSP25-00002-DX	130° Elbow	1
13	9901-17*2.5	O Ring, Ø17 x 2.5	1
14	LSP25-00019-DX	Elbow (27-Ton)	1
	LSP30-00003-DX	Elbow (32-Ton & 37-Ton)	
15	9901-11*2.5	O Ring, Ø11 x 2.5 (27-Ton)	1
	9901-14*2.5	O Ring, Ø14 x 2.5 (32-Ton & 37-Ton)	
16	LSA22-00025	Plate	1
17	9110-08010-DX	Screw, M8 x 10mm	4
18	LSP30M-00017	Hydraulic Hose, valve-oil filter	1
19	LSP25-00004-DX	Cylinder Pin	1
20	LSP25-00005-DX	R Pin	2
21	LSP30MD-02000	Manual Canister	1
22	9101-06020-DX	Hex Bolt, M6 x 20mm, G8.8	3
23	9301-06000-DX	Flat Washer, Ø6	3
24	9206-06000-DX	Nylon Lock Nut, M6	3
25	LSP25-00012-DX	R-Clip	1
26	LSP3700-00001-DX	Hitch Pin	1

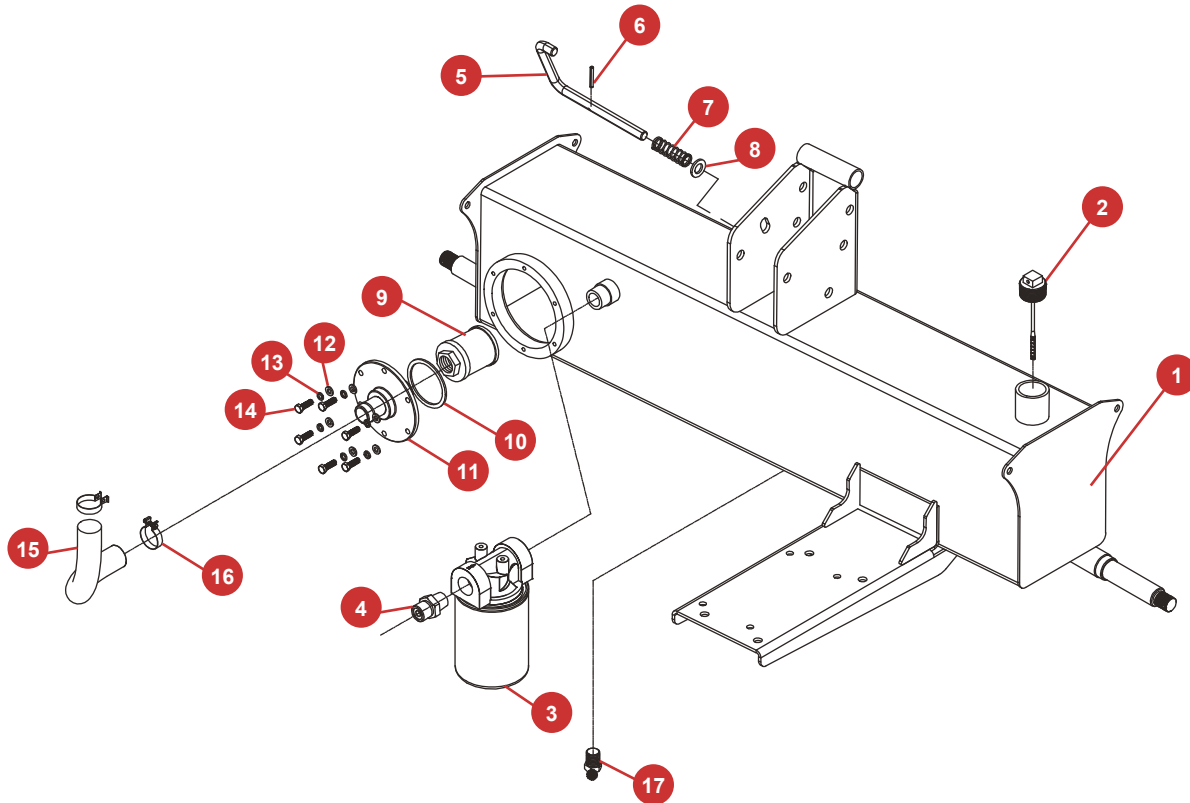
TONGUE ASSEMBLY



TONGUE ASSEMBLY

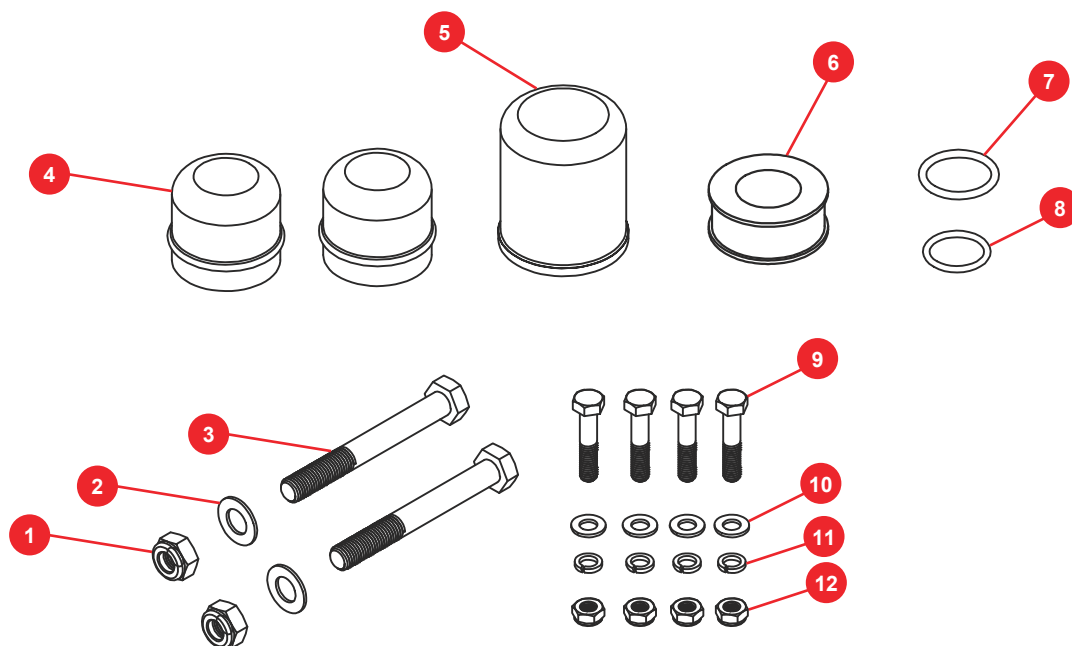
Item #	Part #	Description	Qty.
1	LSP2801-01000	Tongue	1
2	9301-12000-DX	Flat Washer, Ø12	9
3	LSP25-00003-DX	Spring	1
4	LSP30C-00001-DX	Safety Pin	1
5	9404-03030-DX	Cotter Pin, Ø3 x 30mm	1
6	LSP2501-00011	Connecting Belt	1
7	9302-06000-DX	Large Flat Washer, Ø6	1
8	9199-06325-CD	Screw, ST6.3 x 25mm	1
9	Z103	Ball Coupler Assembly, 2 in.	1
10	9101-12080-DX	Hex Bolt, M12 x 80, G8.8	2
11	9206-12000-DX	Nylon Lock Nut, M12	4
12	9101-12090-DX	Hex Bolt, M12 x 90mm, G8.8	1
13	LSP25-11000-DX	Safety Chain	2
14	LSP25-00015-DX	Thick Washer	2
15	LSP2501-08000	Support Leg	1
16	LSF3000-00051	Elastic Cushion	1
17	9105-08025-DX	Screw, M8 x 25mm	4
18	9206-08000-DX	Nylon Lock Nut, M8	4
19	E050-05002	Gum Cover	1
20	N560-00019	Handle Sleeve	1
21	LSP2501-09000	Support Lock Weldment	1
22	LSF3000-00004	Spring Pendant	2
23	9301-10000-DX	Flat Washer, Ø10	4
24	9101-10110-DX	Hex Bolt, M10 x 110mm, G8.8	1
25	9206-10000-DX	Nylon Lock Nut, M10	2
26	LSF3000-00050	Rubber Mat	1
27	9105-10030-DX	Screw, M10 x 30mm	1
28	9101-12100-DX	Hex Bolt, M12 x 100mm, G8.8	1
29	9304-01500	Circlip for Shaft, Ø15	2
30	LSF3000-00003	Spring Pin	1
31	LSF3000-00006	Spring of Support Leg	2

TANK ASSEMBLY



Item #	Part #	Description	Qty.
1	LSP25-03000 LSP30-03000	Tank with Decals (27-Ton) Tank with Decals (32-Ton & 37-Ton)	1
2	LSP25-13000	Vent Cap Assembly	1
3	LSP25-09000	Oil Filter	1
4	LSP25-00007-DX	Straight Connector	1
5	LSP25-00006-DX	Safety Pin	1
6	9404-03030-DX	Cotter Pin, Ø3 x 30	1
7	LSP25-00003-DX	Spring	1
8	9301-12000-DX	Flat Washer, Ø12	1
9	LSP25-00022-DX LSP30-00007	Suction Filter (27-Ton) Suction Filter (32-Ton & 37-Ton)	1
10	LSP25-00021 LSP30-00006	Rubber Washer (27-Ton) Rubber Washer (32-Ton & 37-Ton)	1
11	LSP25-15000-DX LSP30-15000-DX	Suction Filter Mounting Plate (27-Ton) Suction Filter Mounting Plate (32-Ton & 37-Ton)	1
12	9301-06000-DX	Flat Washer, Ø6	6
13	9306-06000-DX	Lock Washer, Ø6	6
14	9101-06020-DX	Hex Bolt, M6 x 20, G8.8	6
15	LSP25-00018 LSP30-00008	Suction Line Tube, Wire Reinforced (27-Ton) Suction Line Tube, Wire Reinforced (32-Ton & 37-Ton)	1
16	LSP25-00011-DG	Hose Clamp	2
17	LSP25-00010-DX	Oil Plug	1

HARDWARE KIT



Item #	Part #	Description	Qty.
1	9206-12000-DX	Nylon Lock Nut, M12	2
2	9301-12000-DX	Flat Washer, Ø12	2
3	9101-12100-DX	Hex Bolt, M12 x 100mm, G8.8	2
4	LSP25-00009-DX	Hub Cap	2
5	/	Hub Cap Tool	1
6	/	Thread Seal Tape	1
7	9901-17*2.5	O Ring, Ø17 x 2.5	1
8	9901-11*2.5 9901-14*2.5	O Ring, Ø11 x 2.5 (27-Ton) O Ring, Ø14 x 2.5 (32-Ton & 37-Ton)	1
9	9101-08040-DX 9101-08025-DX 9101-10050-DX	Hex Bolt, M8 x 40mm, G8.8 (27-Ton) Hex Bolt, M8 x 25mm, G8.8 (32-Ton) Hex Bolt, M10 x 50mm, G8.8 (37-Ton)	4
10	9301-08000-DX 9301-10000-DX	Flat Washer, Ø8 (27-Ton & 32-Ton) Flat Washer, Ø10 (37-Ton)	4
11	9306-08000-DX 9306-10000-DX	Lock Washer, Ø8 (27-Ton & 32-Ton) Lock Washer, Ø10 (37-Ton)	4
12	9206-08000-DX 9206-10000-DX	Nylon Lock Nut, M8 (27-Ton) Nylon Lock Nut, M10 (37-Ton)	4

WARRANTY

IMPORTANT NOTICE

We, the manufacturer, reserve the right to change the product and/or specifications in this manual without notification. The manual is for information usage only and the pictures and drawings depicted herein are for reference only.

Warranty Repair and Service

Do not return this product to the store for warranty issues or repair. Call our customer service department at **1-888-376-7375**.

Record the information below for future reference.

Model No. _____

Serial No. _____

Date of Purchase _____

Place of Purchase _____

SPECIFICATIONS

SKU/Part No.	BDFNA27T (27-Ton)	BDFNA32T (32-Ton)	BDFNA37T (37-Ton)
Maximum Splitting Force	27-Tons ¹	32-Tons ¹	37-Tons ¹
Engine ²	208cc FNA CRX210 ³	272cc FNA CRX275 ³	338cc FNA CRX340 ³
Maximum Log Length	26"	26"	26"
Cycle Time, Down & Back	11.5 Seconds ¹	13.5 Seconds ¹	14 Seconds ¹
Cylinder	4.13" Dia. x 24.4" Stroke	4.5" Dia. x 24.4" Stroke	5" Dia. x 24.1" Stroke
Pump, Two Stage	14 GPM	16 GPM	17 GPM
Wedge, Heat-Treated Steel	9" High	9" High	10" High
Beam	8" Foot Plate	8" Foot Plate	10" Foot Plate
Hydraulic Capacity	3.7 Gallons Operational	5.28 Gallons Operational	5.55 Gallons Operational
Shipping Weight	535.7 Lbs.	584.2 Lbs	687.8 Lbs.

Common Specifications

Valve	Auto Return with Adjustable Detent
Wheels	D.O.T. Approved 16" O.D. Road Tires
Coupler	2" Ball with Safety Chains
Replacement Filters	Part # LSP25-09000 Return Filter Part # LSP25-00022 (27-Ton) / LSP30-00007 (32-Ton & 37-Ton) Suction Filter
Warranty	3 Year / 3 Year / 1 Year, Limited

¹ Tonnage and cycle times may vary dependent upon mechanical and environmental conditions.

² EPA 49 State Legal

³ As rated by engine manufacturer

For Service or Questions:

Call 1-888-376-7375

