



MODEL #5218
4000 LB. CAPACITY

BREAKDOWN ENGINE CRANE
LOW CLEARANCE WITH 8 TON QUICK LIFT RAM
PARTS BREAKDOWN AND OPERATING MANUAL

FEATURES

- 4 Boom Positions with Rated Capacity Indicated
- Heavy Duty Slow Release Power Unit
- 4" Front Leg Clearance
- 8 Ton Quick Lift Ram

OWNER/USER RESPONSIBILITY:

The owner and/or user must have a thorough understanding of the manufacturer's operating instructions and warnings before using this mobile crane. Personnel involved in the use and operation of equipment shall be careful, competent, trained, and qualified in the safe operation of the equipment and its proper use when servicing motor vehicles and their components. Warning information should be emphasized and understood. If the operator is not fluent in English, the manufacturer's instructions and warnings shall be read to and discussed with the operator in the operator's native language by the purchaser/owner, making sure that the operator comprehends its contents.

Owner and/or user must study and maintain for future reference the manufacturer's instructions. Owner and/or user is responsible for keeping all warning labels and instruction manuals legible and intact. Replacement labels and literature are available from the manufacturer.



THIS OPERATING MANUAL CONTAINS IMPORTANT SAFETY INFORMATION. READ CAREFULLY AND UNDERSTAND ALL INFORMATION BEFORE OPERATING TOOL. SAVE THIS MANUAL FOR FUTURE USE.

SPECIFICATIONS:

	Pos. 1	Pos. 2	Pos. 3	Pos. 4
Max. Boom Ht.	95.25"	91.25"	87"	82.5"
Min. Boom Ht.	0"	5.75"	12.25"	18.5"
Boom Capacity	1/2 Ton	1 Ton	1-1/2 Ton	2 Ton
Boom Ext. From End to Ram.....	50"	42.5"	35.5"	28.5"
Base Dimensions – Open				
Width Back.....	34"			
Width Front	35.5"			
Length	69.5"			
Base Dimensions – Folded				
Width Back.....	34"			
Width Front	24"			
Depth.....	21.5"			
Power Unit.....	8 Ton Heavy Duty Quick Lift			
Shipping Weight.....	210 Lbs. (Shipped in 2 boxes)			

! WARNING



THIS CRANE IS DESIGNED FOR ENGINE LIFTING PURPOSES ONLY. WHEN REMOVING ENGINES FROM VEHICLES, BE SURE THAT THE FRONT OF THE VEHICLE IS NOT JAMMED AGAINST THE HYDRAULIC UNIT. FAILURE TO OBSERVE THIS WARNING COULD RESULT IN A DROPPED ENGINE.

A VISUAL INSPECTION SHOULD BE MADE BEFORE EACH USE OF THE CRANE, CHECKING FOR LEAKING HYDRAULIC FLUID AND CRACKED, DAMAGED, LOOSE OR MISSING PARTS.

DO NOT OVERLOAD. OVERLOADING CAN CAUSE DAMAGE TO OR FAILURE OF THE MOBILE CRANE.

LOWER BOOM AND LOAD TO THE LOWEST POSSIBLE POSITION BEFORE TRANSPORTING.

ASSURE THAT THE LOAD IS NOT ALLOWED TO DROP SUDDENLY OR SWING DURING TRANSPORTING.

MAKE SURE THAT BOOM IS FULLY LOWERED BEFORE ADDING OIL TO UNIT RESERVOIR.

THIS MOBILE CRANE IS DESIGNED FOR USE ONLY ON HARD LEVEL SURFACES CAPABLE OF SUSTAINING THE LOAD. USE ON OTHER THAN HARD LEVEL SURFACES CAN RESULT IN MOBILE CRANE INSTABILITY AND POSSIBLE LOSS OF LOAD.

NO ALTERATIONS TO THE MOBILE CRANE SHALL BE MADE. USE ONLY SLINGS OR CHAINS WITH CAPACITY GREATER THAN THAT OF THE LOAD BEING LIFTED.

READ, STUDY AND UNDERSTAND THE INSTRUCTION MANUAL PACKED WITH THIS CRANE BEFORE USING CRANE.

FAILURE TO HEED THESE WARNINGS MAY RESULT IN LOSS OF LOAD, DAMAGE TO CRANE, AND/OR FAILURE RESULTING IN PROPERTY DAMAGE, PERSONAL OR FATAL INJURY.

ASSEMBLY INSTRUCTIONS

NOTE: An assistant is required to assemble this unit and minimize the potential hazards and/or injury.

1. Line up the holes on the Caster Wheels (29) with the matching holes on the Base (7) and attach with Bolts (32).
2. Slide the right Front Leg Extension (wheel angled slightly inward) (1) into right side of Base (7) until the pin hole aligns with the pin hole on base. Slide Pin (3) through hole in leg extension and base and secure pin with Clip (8). Repeat this procedure for the left front leg extension.
3. With the help of an assistant, install the Upright Mast (10) onto the base using Bolts (6), Washers (5) and Nuts (4). Install the Mast Braces (9) onto the base using Bolts (6), Washers (5) and Nuts (4). Align holes at the upper end of the Mast Braces with the second hole from the top in the Upright Mast using Bolt (14), Washer (15) and Nut (16). Once aligned, tighten the bolts securely.
4. Install the Hydraulic Ram (13) to the support bracket on the Upright Mast using Bolt (11), Washer (15) and Nut (16). Once secured, lean the hydraulic ram against the Upright Mast temporarily.
5. Install the Boom (25) on top of the Upright Mast and secure with Bolt (20), Washer (21) and Nut (22).
6. Align and install the top of the hydraulic ram into the welded fork on the boom and secure with Bolt (23), Washer (15) and Nut (16).
7. Slide Boom Extension (26) into boom and secure with Slide Pin (24) and secure with Clip (8).
8. Install the Hook and Chain (27) at the end of the boom extension using Bolt (28), Washer (5) and Nut (4).
9. Slide the Handle (12) on the socket on the hydraulic ram.

OPERATING INSTRUCTIONS

1. Lock the boom in place for the proper weight marking using the lock pin **BEFORE APPLYING THE LOAD TO THE LIFT**. Do not exceed the rated capacity and travel limits of the equipment.
2. Use appropriate levellers, slings or chains around the load capable of sustaining the load before using the hook to lift it. Make sure that the latching mechanism is working properly before lifting or moving the load.
3. Once the load is securely hooked in place, lift the load by turning the release valve clockwise until closed, and pumping the jack until the load is clear of any obstruction. Move very carefully avoiding slopes in the direction of travel. Avoid sudden or swinging movements of the load. To lower the load, turn the release valve on the hydraulic jack counterclockwise very slowly.

TROUBLE SHOOTING

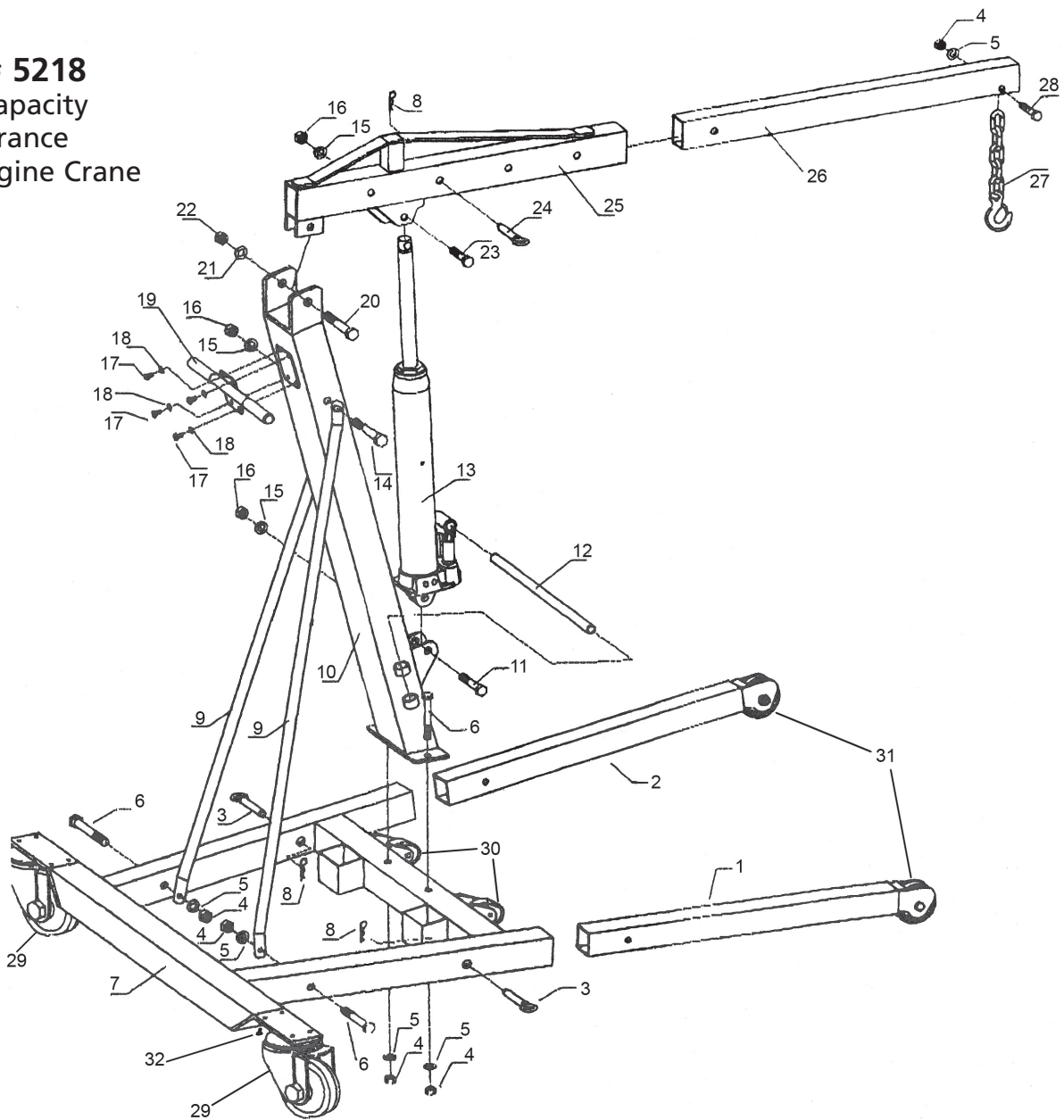
SYSTEM AIR PURGE

1. Turn release valve counterclockwise one full turn to open.
2. Pump handle eight full strokes.
3. Turn release valve clockwise to closed position.
4. Pump handle until the lift arm reaches maximum height and continue to pump several times to remove trapped air in the ram.
5. Turn release valve counterclockwise one full turn to open and allow lift arm to retract.
6. Close release valve and check for proper pump action. It may be necessary to perform the above move more than once to assure air is evacuated totally.

OTHER SYMPTOMS

Jack will not lift to full height:	Low oil level
Jack will not hold:	Release valve not closing Dirt in hydraulic jack oil or pump valves not sealing Refer to Air Purge
Section	
Lift arm will not lower:	Cylinder ram binding Release valve broken Parts worn
Jack feels spongy when lifting:	See Air Purge section

MODEL # 5218
4000 Lb. Capacity
Low Clearance
Breakdown Engine Crane



Item #	Part #	Description	Qty.	Item #	Part #	Description	Qty.
1	RS521801	Right Leg Extension	1	17		Bolt	4
2	RS521802	Left Leg Extension	1	18		Spring Washer	4
3		Dowel Pin	2	19	RS521819	Push Bar	1
4		Nut	5	20		Bolt	1
5		Washer	5	21		Washer	1
6		Bolt	4	22		Nut	1
7	RS521807	Base	1	23		Bolt	1
8		Cotter Pin	3	24		Dowel Pin	1
9	RS521809	Mast Brace	2	25	RS521825	Boom	1
10	RS521810	Upright Mast	1	26	RS521826	Boom Extension	1
11		Bolt	1	27	RS521827	Hook & Chain	1
12	RS521812	Handle	1	28		Bolt	1
13	RS80QL	Hydraulic Ram (incl. #12)	1	29	RS521829	Rear Caster	2
14		Bolt	1	30	RS521830	Front Base Wheel	2
15		Washer	3	31	RS521831	Front Leg Wheel	2
16		Nut	3	32		Bolt - M8 x 16	8
	RS5218BK	Hardware Kit (including # 3, 4, 5, 6, 8, 11, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 27, 28, 32)					

Only items identified by part number are available for purchase.

MAINTENANCE AND INSPECTION

1. Inspect the crane before each use. Check for cracks in the jack support, boom and boom extension. Check for loose, missing or damaged parts and for hydraulic oil leaks. If the crane is damaged in any way, it should be removed from service immediately.
2. Check for unauthorized modification of the product. Modifications to this product and/or use of unapproved attachments are prohibited due to the potential hazards that are associated with improper use.
3. Any crane which appears to be damaged in any way, found to be worn, or operates abnormally **MUST BE REMOVED FROM SERVICE UNTIL REPAIRED**. Owners and/or operators should be aware that repair of the equipment requires specialized knowledge and facilities. Only factory authorized parts, labels and decals shall be used on this equipment.
4. If jack is subjected to abnormal load or shock, remove from service and have it examined by an Authorized Repair Service.
5. Clean all surfaces and maintain all labels and warnings.
6. Grease Pivot Points:
 - A. Boom to Upright Support Post
 - B. Ram Mount to Boom

A list of authorized repair facilities is available from the manufacturer.

CHECK OIL LEVEL

WARNING

Always purchase those products labeled "Hydraulic Jack Oil". Do not use brake or transmission fluids, as they can damage the seals.

1. Turn release valve counterclockwise to allow ram to fully retract.
2. Remove fill plug.
3. With jack in vertical position, proper oil level should be even with bottom of hole. If low, fill with NEW, clean hydraulic jack oil and recheck level. **Do not overfill!!**
4. Replace filler plug.
5. Turn release valve counterclockwise one full turn to open and allow lift arm to retract.
6. Close release valve and check for proper pump action. It may be necessary to perform the above move more than once to assure air is evacuated totally.

STORAGE

1. Lower the boom (25) to its lowest position, with the boom extension (26) slid into position #4. Ensure pin (24) is installed and secured with clip (8).
2. Remove clips and pins (3, 8) holding front legs (1, 2) to the base (7). Remove front legs from base and position them vertically in the storage pockets located slightly to the rear of the wheels (30) on base.
3. Reinstall the clips and pins removed in step 2 to prevent the loss of parts.

LIMITED WARRANTY:

SUNEX INTERNATIONAL, INC. WARRANTS TO ITS CUSTOMERS THAT THE COMPANY'S SUNEX TOOLS® BRANDED PRODUCTS ARE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS.

Sunex International, Inc. will repair or replace its Sunex Tools® branded products which fail to give satisfactory service due to defective workmanship or materials, based upon the terms and conditions of the following described warranty plans attributed to that specific product.

This product carries a ONE-YEAR warranty. During this warranty period, Sunex Tools will repair or replace at our option any part or unit which proves to be defective in material or workmanship.

Other important warranty information...

This warranty does not cover damage to equipment or tools arising from alteration, abuse, misuse, damage and does not cover any repairs or replacement made by anyone other than Sunex Tools or its authorized warranty service centers.

The foregoing obligation is Sunex Tools' sole liability under this or any implied warranty and under no circumstances shall we be liable for any incidental or consequential damages.

Note: Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Return equipment or parts to Sunex Tools, transportation prepaid. Be certain to include your name and address, evidence of the purchase date, and description of the suspected defect.

If you have any questions about warranty service, please write to Sunex Tools. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Repair kits and replacement parts are available for many of Sunex Tools products regardless of whether or not the product is still covered by a warranty plan.

SHIPPING ADDRESS:

Sunex Tools
315 Hawkins Rd.
Travelers Rest, South Carolina 29690

MAILING ADDRESS:

Sunex Tools
P.O. Box 4215
Greenville, South Carolina 29608