



7' SAS™ “CAR BODY” SAS™ FORKS



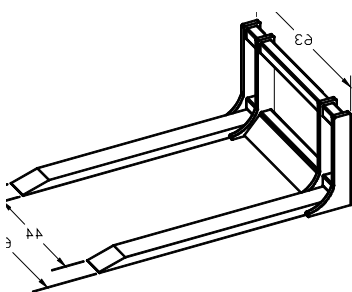
OPERATOR MANUAL

**FOR SAFELY LIFTING & MOVING SALVAGE CARS &
LIGHT TRUCKS FROM THE SIDE.**



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Serial Number:

When contacting SAS FORKS please have the Serial Number available.
Stamped in the steel of the left side of the carriage about 3" below the top.
Stamped in aluminum ID plate on the left side of the carriage.

S.A.S. of Luxemburg, Ltd. 133 Center Drive Hwy 54, PO Box 260, Luxemburg, WI 54217 USA
Phone: 920-845-2198 • 1-877-SAS-FORK • Fax: 920-845-2309 • Web: www.sasforks.com



INTRODUCTION LETTER (Page 3) SAS™ FORKS

TO THE OWNERS, MANAGERS, AND OPERATORS OF LOADERS EQUIPPED WITH SAS™ FORKS

Safety is the most important issue in the workplace. Observing safety guidelines, equipment capacities and using common sense will provide a work environment that is safe and efficient for employees, management and customers. It is important that you and your operators read and understand the information included in this manual. A key element to safe operation of this equipment is that all personnel are properly trained. Personnel recommended to receive training: Operators and all others working in area where equipment will be utilized

Safety warnings are highlighted through out this manual. Understanding the significance of these symbols is important. The following is a definition of each symbol you will encounter in this manual.



The Caution symbol is intended to draw your attention to important safety information, a hazard or precaution.



The Danger Symbol indicates a hazardous situation that if not avoided will result in serious injury or death



The Warning Symbol indicates a hazardous situation that if not avoided could result in serious injury or death



The Caution Symbol indicates a hazardous situation that if not avoided could result in minor injury or potential property damage



The Notice Symbol indicates worst credible severity of harm is property damage.

The following information laid out in this Operator Manual for SAS FORKS™ is intended to be a guide only, and is not meant to encompass all issues that may need to be addressed for your particular type of business operation.

If you encounter any additional information that would be helpful to us, or others, please contact us.

Thank you for your business,

SAS Ltd.

S.A.S. OF LUXEMBURG, LTD.
133 Center Dr Hwy 54 · PO Box 260
LUXEMBURG, WI 54217 USA

Phone:
920-845-2198

Email:
buyit@sasforks.com

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General Safety Guidelines and Precautions SAS™ FORKS (Page 4)

Operation of equipment should only be performed by qualified and trained individuals. All persons operating or working in the area of operation should read this manual and a copy of this manual should be kept with the equipment.

To be considered qualified you must:

- Understand the written instructions supplied by the manufacturer of this device, the manufacturer of the wheel loader, all company rules and any applicable OSHA regulations
- Completed training including actual operation of the device.
- Know and follow the safety rules and regulations of the jobsite.
- Know and follow all guidelines outlined in this manual.

WARNING Operation of equipment by un-qualified or un-trained individuals can result in serious injury or death. Verify all operators have received proper training on operation of this equipment.

WARNING Operation of equipment under the influence of illegal, prescribed or over the counter drugs can result in potential injury or property damage. Consult your physician before operation of this equipment while on medication.

WARNING Inspect the device and perform all preventative maintenance before operation at the start of every shift. Failure to perform inspections or proper maintenance can result in equipment failure resulting in serious injury or property damage.

WARNING Read operators manual and follow all safety procedures for the equipment this device is attached to. Failure to follow Manufacturers recommendations can result in serious injury and property damage or death.

WARNING This equipment has numerous moving components. Do not wear loose fitting clothing, rings, jewelry or other items that may become entangled in the device. Be aware of resulting pinch points and keep clear during operation, inspection and maintenance. Pinch points exist between the coupler and forks, coupler and wheel loader, failure to keep clear while in operation can result in serious injury or death.

WARNING Do not exceed posted weight limits on equipment or loader. Exceeding rated load limits will result in equipment damage, serious injury or death.

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INSTALLATION GUIDELINES (Page 5) SAS™ FORKS

CAUTION

Installation of SAS FORKS™ should be completed by a professional knowledgeable on your machine. The SAS FORKS™ were made specifically to fit the attachment of your machine. Contact your wheel loader or forklift manufacturer, as you deem necessary, depending on applicable rules or regulations, to obtain guidance or approval as may be required prior to installation of this attachment. Avoid pinch points during installation as you may be injured. Improper installation may cause damage to the loader.

WHEEL LOADER RECOMMENDATIONS:

REMOVE YOUR “AUTOMATIC DUMP” FEATURE ON YOUR BUCKET LEVER.

The automatic dump feature was originally intended for loaders moving gravel in buckets and subsequently dumping it into trucks. This is not a desired feature when moving vehicles with SAS FORKS™. Have this automatic dump mechanism removed if your machine has one.

REMOVE YOUR “LOCK POSITION” AND “DETENT” CONTROLS

Remove the lock position and detent controls on the up and down levers. These controls, if left operable on your machine, could cause accidents by raising or lowering the load without the operator being aware that the lever is engaged.

DIRECT PIN MOUNT TYPE SAS FORKS:

- Park wheel loader on firm level ground, • Set parking brake • Set attachment flat on ground
- Turn off wheel loader engine • Depressurize the wheel loader’s hydraulic system to release any residual pressure and resulting tension on the wheel loader arms.

WARNING

Failure to properly release residual hydraulic system pressure may result in stored energy and undesired or unexpected movement of wheel loader arms when pins are removed.

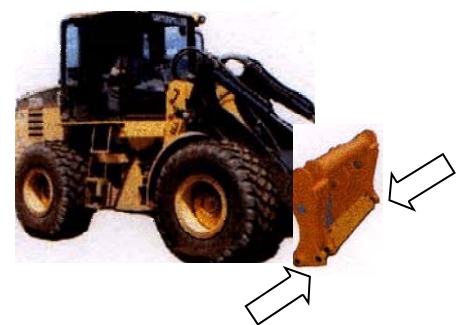
- Grease holes using a brush. Do not insert finger into pin hole opening, as there is a risk of a pinch point and finger being severed. • Align holes on SAS Fork carriage with wheel loader arm holes. • Grease pins • Insert pins & secure properly. • Start wheel loader and slowly move attachment, while carefully watching for interference points. If any are found, “stops” may need to be installed. Contact SAS Forks to discuss.

QUICK COUPLER MOUNT TYPE SAS FORKS:

- Align SAS Forks squarely to coupler & engage locking pins. Locking pins must be fully engaged and secure prior to use.

WARNING

Failure to properly secure coupler locking pins will result in damage to the forks and the coupler and **forks may fall off the coupler & drop load**, risking damage to the load and injury or death to anyone in the area.



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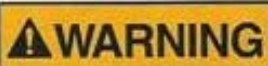


PRE-OPERATION INSPECTION (Page 6) SAS™ 6' & 7' FORKS

Daily, pre-operation inspection is recommended to help the operator safely use SAS FORKS™. The list below is a general summary. A sample checklist can be found later in this manual. Please note: This list is not meant to be an exhaustive list of items to inspect. Refer to the machine manufacturer's operator manual for specifications and additional items that may need to be inspected prior to machine operation.



It is the responsibility of the Owners and Operators to ensure safe operation of equipment in the field. Any unsafe items should be professionally repaired prior to operation of machine. Failure to follow these safety guidelines or wheel loader operation instructions can result in serious injury or death.



Prior to completing this inspection, wheel loader should be parked on a solid level surface, with the parking brake set and the engine off. Failure to secure vehicle while inspecting can result in serious injury or death.

1) INSPECT WHEEL LOADER PER MANUFACTURERS RECOMMENDATIONS

Inspect items such as, but not limited to; tire pressure, wheel bolts, lift arm pins, cylinders, hoses.

2) GREASE AND INSPECT ALL THE LINKAGE PINS.

Inspect each linkage pin to ensure properly fastened and the condition.

Grease each linkage pin and joint to ensure smooth operation and to reduce wear.

Do not operate machine if linkage pin or retaining plate of bolt is worn, loose or missing.

3) FORKS SECURED PROPERLY

Quick coupler mounted units must be aligned uniformly and fastened securely with both locking pins fully engaged. Direct pin mounted forks with all pins properly in place & secured with proper fasteners.

4) INSPECT SAS FORKS

Inspect Rubber Bumpers attached to the carriage to prevent damage to cars. Order new bumpers from SAS FORKS

Inspect fork carriage & frame for cracking or damage. Do not use forks if damage is found.

Inspect welds retaining the blades into the carriage. Welds should be smooth, with no cracks. Do not operate forks if a weld is showing any signs of cracking. See "Blade Weld Inspection".

Inspect fork blade tips for upward bending. Blade tips should be level to each other +/- 1/2". Blade tips that are not level with each other will make it difficult to slide under vehicles, and cause premature wear on the lower blade.



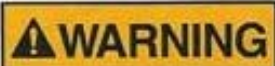
Failure to inspect welds, blades or mounting pins on a daily basis can result in catastrophic failure resulting in property damage, serious injury or death. Be certain to inspect your equipment on a daily basis.

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BLADE & CARRIAGE WELD INSPECTION

CHECK THE WELDS ATTACHING THE BLADES TO THE CARRIAGE.

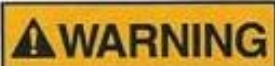
There are a series of welds attaching each blade to the carriage. Each weld should be smooth with no cracks.



Do not operate machine if a weld is showing any signs of cracking. Operation of machine with cracked welds can result in serious injury or death. Never operate equipment exhibiting cracks, always notify your immediate supervisor of any unsafe conditions.

• **Cause of cracks:** The operator is repeatedly forcing the tips of the fork blades onto the ground. This is referred to as *down pressure*. Extreme *down pressure* may lift the front tires of the loader off the ground. Repeated or extreme *down pressure* will eventually bend the tips of the blades up, crack the blade welds, crack the blades from the bottom up, and/or crack the tip of the carriage.

• **To prevent a crack from occurring:** When lowering the SAS FORKS™ to the ground, just touch the blades on the ground, do not force the tips of the fork blades onto the ground.

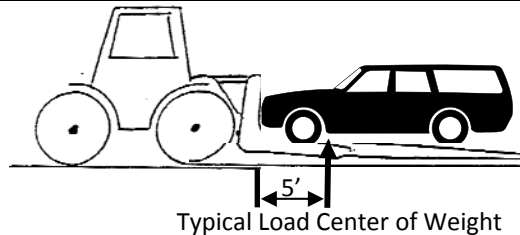


DO NOT MAKE UNAUTHORIZED WELDS TO SAS FORKS™ Welding on forks can result in reduced lifting capacity & potential failure resulting serious injury or death. Contact SAS before performing any welding on this equipment.

Do not weld anywhere on the fork blades. Never weld across the fork blades for any reason. If you have a question about welding anything on or to the SAS FORKS™, please call S.A.S. of Luxemburg, Ltd. at 920-845-2198. Be sure to obtain written authorization for any welding repair or modification in writing from SAS prior to conducting any repair and only allow a qualified professional welder to conduct such repairs.

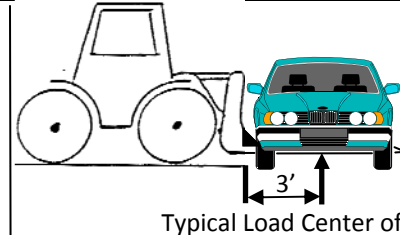
1) LIFT CAPACITY:

GENERAL LIFTING CAPACITY OF MACHINES WITH SAS FORKS™					
Vehicle Lifting Position		Front to Rear		Broadside	
Machine Specifications		Lift Capacity With 15' SAS FORKS™		Lift Capacity With 6' & 7' SAS FORKS™	
Machine Rating	Curb Weight of Machine	Lifting Capacity	Load Center # feet from carriage	Lifting Capacity	Load Center # feet from carriage
2 yard	< 15,000 lbs	2,000 lbs	@ 5 feet	4000 lbs.	@ 3 feet
2 ½ yard	> 20,000 lbs	3,000 lbs	@ 5 feet	5500 lbs.	@ 3 feet
2 ¾ yard	> 25,000 lbs	4,000 lbs	@ 5 feet	6500 lbs.	@ 3 feet
3 yard	> 30,000 lbs	5,000 lbs	@ 5 feet	7500 lbs.	@ 3 feet
3 ½ yard	> 33,000 lbs	6,000 lbs	@ 5 feet	8500 lbs.	@ 3 feet



15' SAS FORKS:

Lift with engine close to wheel loader and fork carriage.



6' & 7' SAS FORKS:

Position **one fork close to and just behind the front wheels** and the second fork forward of rear wheel.

Sample Vehicle Weights	
2,500 lbs	2000 Toyota Corolla
3,000 lbs	1998 Chev Lumina
4,000 lbs	1998 Chev Truck C1500 2wd Std Cab
5,000 lbs	1998 Chev Truck K1500 4wd Ext. Cab
6,000 lbs	1998 Chev Truck K3500 4wd Crew Cab

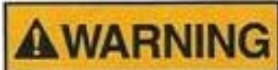


WARNING Dismantled vehicles, which have the engine and transmission removed have different load centers than vehicles that are complete *with* engines and transmissions. Verify load is evenly balanced and does not exceed load rating before lifting. Failure to maintain a balanced load can result in the load falling from forks resulting in serious injury or death. Always check that load is solid and stable on the forks before lifting or moving the load.

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2) ENTRY UNDER A VEHICLE:

Correct: Position tapered portion of fork blade parallel to ground and slide the fork blade under vehicle, keep close to front wheel for best balance of vehicle. Pick up slowly to verify stability.



Be careful to lift load slowly to be sure it is balanced properly before moving. Unbalanced load can shift and fall off forks resulting damage to the load, wheel loader, forklift, and injury or death to anyone nearby.

Be certain load is balanced before lifting load.

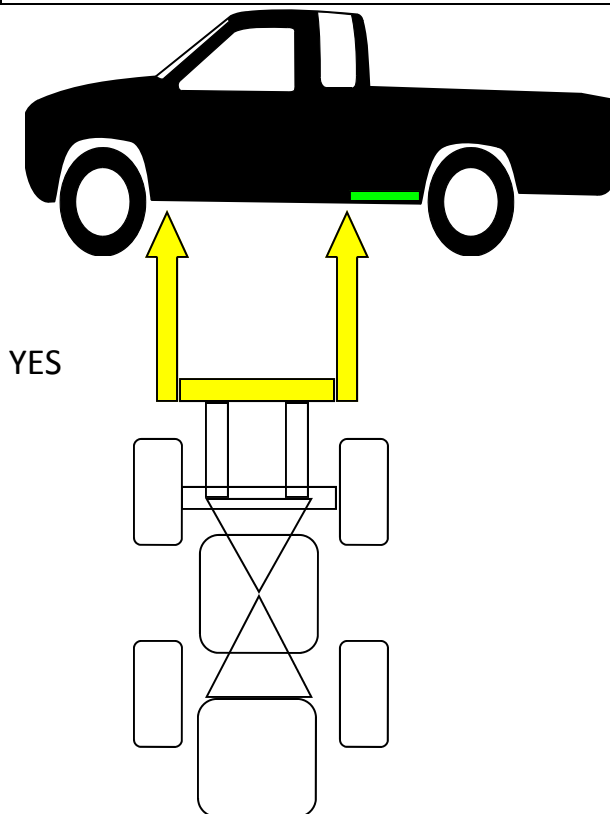


Side handling vehicles have some risks to causing damage. Be aware of & avoid:

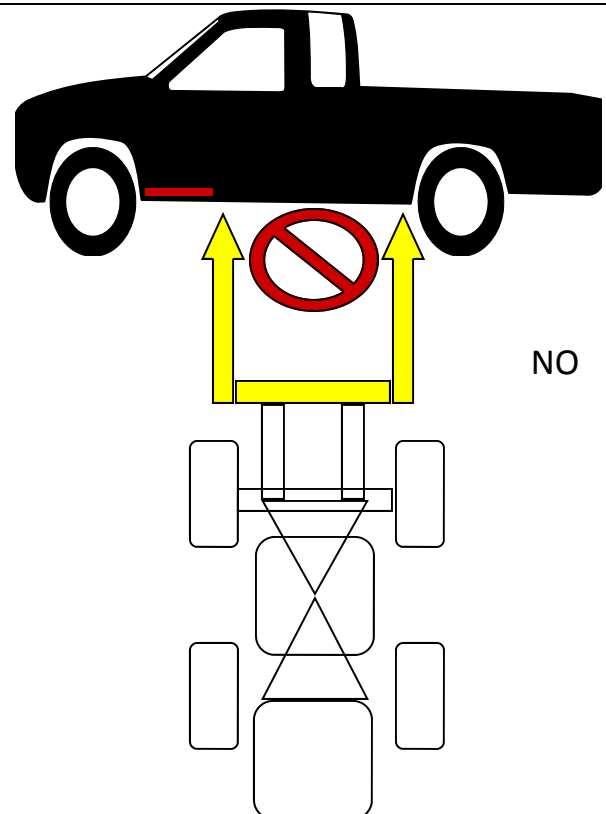
- Rear drive shafts extending below frame rails pose a risk to being damaged.
- Beware as truck is lifted by the frame, rear axle will drop, pulling the drive shaft down, nearer to coming into contact with the forks and causing damage.
- Transfer cases may be exposed to contact with fork or undue tension from displaced driveshaft.
- Avoid contact with lower truck box sides, due to they are not stiff and strong like car rocker panels, and rocker panel bumpers will damage box sides.
- Side door & rocker panel damage may result in case of impact into bumpers.

CORRECT SAS™ FORK position:

Slide under a vehicle close behind front wheel.



INCORRECT SAS FORK position: Lifting to far back, may cause the car to tip forward off forks.



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3) SPOTTERS MUST STAY CLEAR

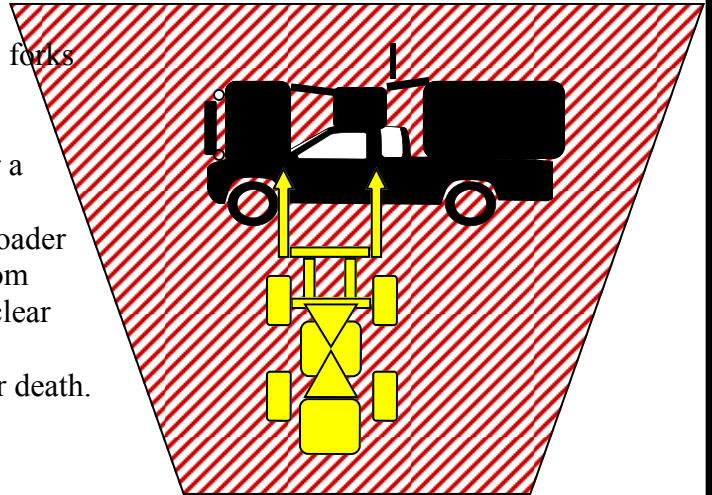
Using a spotter is often helpful when positioning the forks under the car.



Do not allow anyone to enter a potential pinch point or area

where car may fall toward, or any blind spot of the loader Operator. Always stand clear and a safe distance from the forks, loader and load. Example of area to stay clear Of is illustrated in cross hatched diagram to right.

Failure to observe this may result in serious injury or death.



4) MAXIMUM LIFT HEIGHTS

Some machines (loaders / fork lifts / fork trucks / etc.) have height lifting limitations. The identification plate on the SAS FORKS specifies the maximum height a load may be lifted safely with SAS FORKS. (Typical maximum lift height is 8') Load Height limitations can usually be found:

- On the SAS FORKS™ identification plate
- In your machine manufacturer's operator manual

5) ROCKER PANEL BUMPERS

Your SAS CAR BODY FORKS may optionally be fitted with SAS Rocker Panel Bumpers.

The purpose is to prevent side door damage. Best practice is to slide forks under car, stopping short of impacting the car's rocker panel to the rubber pad. Slowly lift and tilt forks back about 5 degrees. As you transport the car, the car may freely slide to the rubber pad. The goal is to provide a resting place for the car, and avoid contact with the doors. Contact SAS for replacement *Rocker Panel Bumper pads*.

6) WINTERTIME OPERATION

If the vehicles are frozen to the ground—approach the vehicle straight on, allowing your SAS FORKS™ to slide under vehicle. With the forks positioned as previously described in (*Entry under a vehicle*). Allowing the wedge shape design to “pop” the vehicle out of the ground. This will allow the forward motion of the loader to loosen a frozen vehicle from the ground. Do not articulate or attempt to lift the unit until the vehicle is loose from ground. Articulating or lifting prior to freeing the vehicle out could bend your fork blades.

7) BLOW HORN TO WARN OTHERS



Sound horn when approaching blind areas, like around corners of buildings or garage. This is necessary to alert other people who may not be able to see you, that you are approaching. Failure to sound horn at blind intersections can result in serious injury or death. Always slow down and sound horn at blind corner intersections.



OPERATION GUIDELINES cont. (Page 11) SAS™ FORKS

8) TURNING WHILE CARRYING A LOAD

While carrying a load on forks, keep it low to ground. It is not safe to turn (*articulate*) if load is more than 2 feet above ground. When there is a need to raise a load in excess of 2 feet (60 cm), be sure turn is not in excess of 5° to right or left. The best way to lift loads at heights above 2 feet is to “line up” with truck/trailer/semi/etc. before raising load. When your machine is lined up straight on with truck/trailer/semi/etc. then lift load and place it without turning machine.



Do not turn (*articulate*) with a load in excess of 2 feet (60 cm) above ground. Turning sharp with load elevated can result in vehicle falling from forks resulting in serious injury or death.

9) MOVING FORKS FROM SIDE TO SIDE WHILE FORKS ARE UNDER A VEHICLE

Moving forks from side to side (*articulate*) when under a vehicle could damage the vehicle.

10. PEOPLE AND PEDESTRIANS: At all times maintain a safe operating distance from people. A



minimum recommended distance to keep people clear from wheel loader, (forklift), forks, and load is 30 feet (9 Meters). Failure keep pedestrians clear of work area can result in serious injury or death. Verify area is clear before operation of equipment.

11. BACKING SAFETY WARNING:

When backing up (reverse) with the loader/fork lift, a safety beep shall sound to warn all people that you are backing up. If this safety beep is found inoperable at any time, it must be immediately fixed prior to



further use of the loader. Failure to maintain warning device can result in serious injury or death. Always check operation of warning device at start of each shift.

12. DRIVING SPEED AND BOUNCE:

Always drive the wheel loader (forklift) at slow speed. Speeds that are too fast may cause machine to start bouncing. Bouncing is dangerous condition & could result in cargo shifting & falling off forks.



Failure to maintain safe speed can cause loss of control &/or load falling off forks resulting in serious injury or death. Operate slow safe speed based on conditions.

13. GREASE & MAINTENANCE PRECAUTIONS:

Maintenance should be performed by properly training individuals. Never attempt to grease the fork pins when the machine is running or when forks are raised above ground. Performing maintenance or repairs



with equipment running or while forks are elevated can result in serious injury or death. Only perform work on equipment with machine off & forks are on ground.

14. KEEP PEOPLE CLEAR OF LIFTED LOADS:

SAS FORKS are not intended to lift people. It is never safe to lift any object on the SAS FORKS and walk under or work under the forks or load. Never lift a load and let someone walk or work



under the forks. Failure to stay out from under raised load or to prevent others from going under load can result in serious injury or death. Always make sure load is securely on the ground before allowing anyone near load or forks. Always lower forks completely to the ground before performing any inspections, greasing, maintenance or other work.

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LIMITED WARRANTY (Page 12)

SAS™ FORKS

SAFETY

Buyer accepts the responsibility to (1) Ensure that all personnel that will use and/or work in the area of the purchased product will read the safety ID plate and the Operator Manual For Machines Equipped With SAS FORKS™ and the Machine Manufacturer’s Operators Manual, prior to use; and (2) Ensure that all personnel follow the safety guidelines outlined on these materials.
 S.A.S. OF LUXEMBURG, LTD. IS NOT RESPONSIBLE FOR SAFETY IN THE FIELD.

GOALS OF THE S.A.S. OF LUXEMBURG, LTD. LIMITED WARRANTY PROCEDURE

- ASSURE MINIMUM CUSTOMER DOWNTIME by resolving the problem correctly on a timely basis.
- ASSURE END-USER CONFIDENCE while maintaining an equitable Warranty expense for both your company and SAS.
- PRODUCT IMPROVEMENT. We have an engineering staff ready to assist you. Call us at 1-877-SAS-FORK (1-877-727-3675)

Please call SAS before attempting any repair, modification, or questionable job applications.

LIMITED WARRANTY FOR SAS FORKS™

For products that S.A.S. of Luxemburg, Ltd. (SAS, also herein referred to as Seller) manufactures, SAS warrants that such products conform to all specifications for materials and workmanship for the period of time indicated below, after delivery, when used in compliance with the SAS FORKS™ Operator Manual.

<u>PRODUCT TYPE</u>	<u>LIMITED WARRANTY PERIOD</u>	<u>ITEM COVERED</u>
STANDARD HEAVY DUTY 15.5’ SAS FORKS™	1 YEARS FROM ORIGINAL SHIP DATE	CARRIAGE UNIT
STANDARD 3” wide x 5” thick x 15.5’ BLADES	3 YEARS FROM ORIGINAL SHIP DATE	FORK BLADE
ALL OTHER SAS FORKS™ (listed below) ADJUSTABLE, CRUSHING™, CAR BODY, SCORPION™ & CLAW ENGINE PULLERS LONG SAS FORKS (6” & 4” WIDE) RAKE FORKS OR GRAPPLE FORKS	1 YEAR FROM ORIGINAL SHIP DATE	CARRIAGE UNIT
FORGED OR ALLOY FORK BLADES	None, Not a SAS manufactured component.	NA
SAS FORKS™ BUMPERS	None	NA
SKID PLATES	None	NA
OTHER PRODUCTS NOT LISTED	None, unless specified on face of original invoice	NA

SAS does not warrant the products that it does not manufacture. Rather, all warranties, if any, for these products are supplied by the manufacture. SELLER EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

CALL FOR WARRANTY CONSIDERATION: To be considered for warranty repairs or replacement buyer must notify SAS of any warranty claim within 10 days after such claim arises, and prior to expiration of the warranty period and prior to the performance of any repairs being done, otherwise buyer waives all rights to such claim.

- Obtain the serial number off the forks and call SAS at 1-877-SAS-FORK. Clearly describe the problem and the operation that was taking place when it occurred. Contact SAS: SAS Local: 920-845-2198 SAS Fax: 920-845-2309 SAS Email: sales@sasforks.com
- Buyer is to return defective assembly, freight prepaid, or photographic evidence clearly showing the problem area and details of failure to SAS for review. When necessary, a factory representative may evaluate the problem in the field.

WHAT SAS WILL DO: SAS will examine the defective product, and the details of the failure. If SAS determines that the failure of materials or workmanship was proven to be within the terms of this limited warranty, SAS will, at it’s option, repair or replace, FOB the factory, in Luxemburg, WI, USA, the defective product. If the product cannot be returned to the factory, SAS may approve field repair of defective product. SAS will approve an appropriate amount of hours and cost for the repair before authorizing repairs to begin. No provisions will be made for incidental damages, mileage, travel time, overtime, downtime, or special freight charges.

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LIMITED WARRANTY (Page 13)

SAS™ FORKS

FORK BLADES SPECIAL NOTE:

- BENT FORK BLADES are a condition of operation error and are NOT a warranted condition.
 - DAMAGES TIPS are a condition of blunt impact by operator and NOT warranted condition.
- Refer to additional details in this limited warranty document and related 'SAS FORKS Sales Terms'

CARRIAGE UNIT LIMITED WARRANTY

- UPPER CARRIAGE UNIT FIT AND CONSTRUCTION: We guarantee our SAS FORKS™ to fit your machine as designed. This is warranted against cracks in material, weldments, and factory machined areas.
- WEAR OF BASE PLATE LOWER CARRIAGE, which is structural material, voids the warranty. This is caused from not maintaining skid plates under the carriage. See manual for details of miss-use and proper use.
- BROKEN/CRACKED LOWER CARRIAGE: Cracking or breaking of the carriage unit from the bottom voids the warranty. This is caused from improper operation. Usually caused by repeated down pressure and wheelies. This is not a warrantable condition. See manual for details of miss-use and proper use.

CONDITIONS THAT WILL VOID YOUR WARRANTY: Failures, which in our determination were the result of:

- Improper installation.
- Misapplication - See SAS FORKS™ Operator Manual.
- Misuse or Improper operation - See SAS FORKS™ Operator Manual.
- Exceeding the weight and/or lift limitation posted on the Identification Plate attached the SAS FORKS™.
- Negligence or Failure to perform routine inspection and/or maintenance as outlined in the SAS FORKS™ Operator Manual.
- Unauthorized modification, welding, burning, grinding, installation of non-factory skid plates, etc. (other than specifically allowed in the SAS FORKS™ Operator Manual or as provided in a written authorization directly from SAS factory Engineers.)
- Continued use after a malfunction of the hydraulic system in the forklift or loader.
- Accidental damage.

LIMITED WARRANTY REMEDIES: Buyer must notify SAS of any warranty claim within 10 days after such claim arises; otherwise buyer waves all rights to such claim. Unless agreed otherwise in writing. Buyer's sole remedy for breach of warranty is, at seller's option, the repair of the defect, the correction of service, or the providing of a replacement part F.O.B. Seller's office. Seller will not be responsible for costs of travel, mileage, shipping, hauling, dismantling or reassembling the product. Further, Seller will not be liable for any direct, indirect, consequential, incidental, or special damages arising out of a breach of warranty, or, use of the purchased product(s). THESE REMEDIES ARE EXCLUSIVE, AND ALL OTHER WARRANTY REMEDIES ARE EXCLUDED. Prior to any repairs be performed, **written Pre-Authorization is Required.** For any repairs that the Buyer or a 3rd party desires to have covered under the terms of this limited warranty, Buyer must receive written authorization in advance from the Seller in the form of a written Limited Warranty Authorization Purchase Order. Such will itemize the work to be done and the agreed cost of such, without any allowance for travel or mileage expenses. No other expenses will be reimbursed.

PROPRIETARY RIGHTS: All designs and other proprietary rights provided by Seller to Buyer are to remain the property of Seller, and Buyer shall honor all proprietary legends. Buyer agrees not to copy, or hire a 3rd party to copy the design, style, or likeness, in part or whole of any SAS product. Buyer, buyer's agents or employees may provide feedback to Seller with respect to Sellers products or services and Seller may use feedback for any purpose without obligation of any kind. To the extent a license is required under Buyer's intellectual property rights to make use of feedback, Buyer hereby grant Seller an irrevocable, non-exclusive, perpetual, royalty free license to use the feedback in connection with Seller's business, including enhancement of the products and services. If Buyer requests Seller to make a custom product, Buyer will hold Seller harmless from and against any claims of potential patent infringement.

LIMITATION OF LIABILITY: The seller's price is based on the enforceability of this limitation of liability, and the buyer understands that the price would be substantially higher without this limitation. Seller shall have no liability to buyer for lost profits or for special, consequential, exemplary, or incidental damages of any kind, whether arising in contract, tort, product-liability, or otherwise, even if advised of the potential damages in advance.

- In no event shall seller be liable to buyer for any damages whatsoever in excess of the contract price.
- In the event that any warranty or warranty remedy fails of its essential purpose, or is held to be invalid or unenforceable for any reason, in consideration of the other provisions of this agreement, the parties understand and agree that all limitations of liability under this provision will nevertheless remain in effect.

SEVERABILITY: Any legally unenforceable provision may be severed from this agreement, and the remaining terms and conditions will be enforced as a whole.

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SAMPLE TEST

SAS™ 6' & 7' FORKS

NAME: _____

DATE: _____

1) What steps must be completed during the **Pre-Operation Inspection**, prior to starting the loader?

2) Before engaging the transmission in gear, what are three important things you must do?

3) What is a safe distance to maintain between an operating loader and nearby pedestrians and Why?

4) What type of safety device is engaged when gear shift is placed in reverse & why is it important?

5) What speed is safe to drive the loader in the yard and Why?

•Note: This page can be photocopied for use with your machine operator training for SAS FORKS™.

Test Page 1 of 2

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SAMPLE TEST SAS™ 6' & 7' FORKS

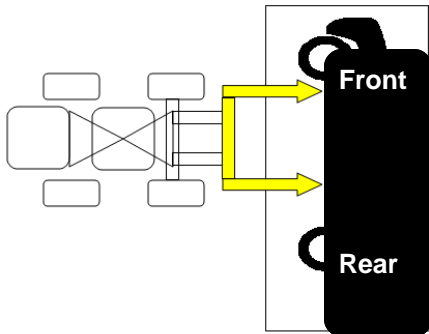
6) How can you prevent a vehicle from tipping or falling off the forks?

7) Side handling vehicles have some risks to causing damage. What are items that are at risk which you must be careful to avoid?

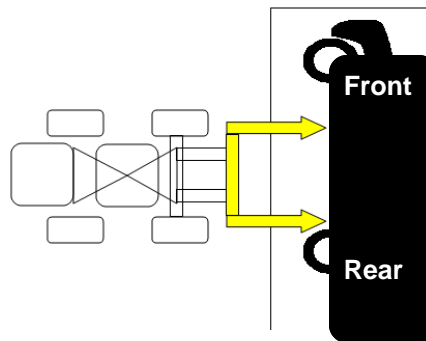
- _____
- _____
- _____
- _____
- _____

8) Which picture below correctly shows the position the forks should be placed in when sliding the forks under a vehicle to load it on the forks? A, B

A.



B.



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Test Page 2 of 2

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ANSWER PAGE 1

SAS™ 6' & 7' FORKS

NAME: _____

DATE: _____

1) What steps must be completed during the **Pre-Operation Inspection**, prior to starting the loader?

Check the oil level

Check engine coolant level

Check your machine tires

Check your hydraulic fittings and hoses (fluid level)

Grease and inspect all the linkage pins

Check the welds attaching the blades to the carriage

Check the tips of the forks for upward bending

2) Before engaging the transmission in gear, what are three important things you must do?

Visually check all around the loader to be sure all people are clear

Disengage the parking brake

Lift the forks off the ground

3) What is a safe distance to maintain between an operating loader and nearby pedestrians and Why?

30 feet. This 30 feet must be maintained all the way around the loader and the vehicle load.

This is very important for everyone's safety because the forks are 7 feet long and the vehicle swings when the loader is turned; the 30 feet provides a safe clearance in case a vehicle would fall off the forks, that it doesn't hit them

6) What type of safety device is engaged when the gear shift is placed in reverse and why is it important?

A backup warning beeper. This should sound automatically when backing up to warn people that the loader is backing up so they can get out of the way.

4) What type of safety device is engaged when the gear shift is placed in reverse and why is it important?

A safe speed is reasonable for the conditions;

Bumps in the road: slow enough that the vehicle is not bouncing or jarring on the forks

Weather: Also consideration for the weather; rain, ice and snow make the road surface slippery for the loader and the blades slippery for the vehicle being hauled on the forks.

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6) How can you prevent a vehicle from tipping or falling off the forks?

Pick up the vehicle on the forks evenly, centering the load from right to left.

Tip the blades back about 5°. This will prevent the vehicle from falling off the end of the forks.

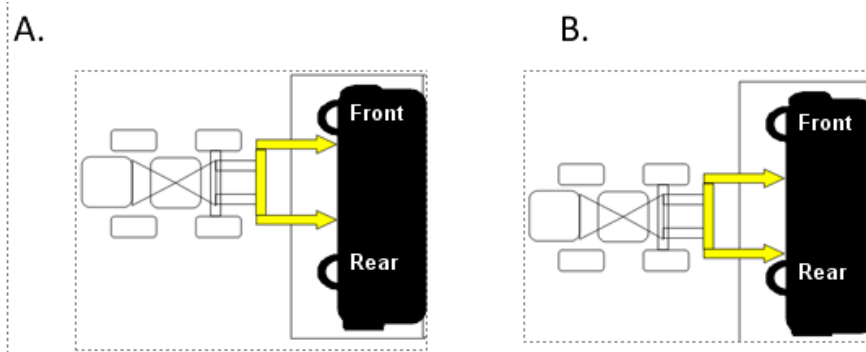
Drive the loader at a reasonable (slow) speed to prevent bouncing or jarring of the vehicle on the forks, from bumps in the road.

7) Side handling vehicles have some risks to causing damage. What are items that are at risk which you must be careful to avoid?

- Rear drive shafts
- Transfer cases
- Truck box sides
- Side door
- Rocker panel

8) Which picture below correctly shows the position the forks should be placed in when sliding the forks under a vehicle to load it on the forks? A, B,

• "A" is correct answer. Side loading requires fork to be close to and just behind front wheel.



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OPERATOR TRAINING DOCUMENTAION FORM SAS™ FORKS



(Please print name of employee / operator below)

I, _____, have read, understand, and will carefully follow the guidelines set forth in the following literature:

Machine Manufacturer's Operator Manual
Operator Manual For Machines Equipped With SAS FORKS™
Identification Plate on the SAS FORKS™

- I further understand that this machine can cause serious injury or death if improperly operated.
- I agree to safely operate this machine and SAS FORKS™.
- If I have any questions regarding the safe operation or maintenance of the equipment, I shall ask Management prior to operating the equipment.
- I understand that I may be terminated for misconduct if I fail to follow this and other established safety and working procedures.

Date Completed

- | | |
|-------------------------------------------------------------------|----------------|
| 1. Read: Machine Manufacturer's Operator Manual | ____/____/____ |
| 2. Read: SAS FORKS Operator Manual | ____/____/____ |
| 3. Read: Identification Plate on the SAS FORKS™ | ____/____/____ |
| 4. Review above procedures with Manager/Trainer | ____/____/____ |
| 5. Complete a written test on operation of loader and precautions | ____/____/____ |
| 6. Test shall be reviewed by Manager/Trainer with Employee | ____/____/____ |
| 7. Watch demonstration from an experienced operator | ____/____/____ |
| 8. Complete a practice loader operation under supervision | ____/____/____ |

Training Completion Certification: The Employee / Operator, listed below, now has the knowledge of these procedures for the machine and SAS FORKS™, and is responsible to see that the policies outlined here are followed on a daily basis. This employee, as evidenced by the signatures below, is now qualified to operate the loader as necessary to safely complete work assignments.

EMPLOYEE / OPERATOR:

MANAGER / TRAINER REVIEW:

(PRINT NAME OF TRAINEE)

(PRINT NAME OF TRAINER)

_____/_____/_____
(SIGNATURE)

_____/_____/_____
(SIGNATURE)

· Please file this completed and signed form, along with a completed written test in the employee's personnel file.
· Note: This page can be photocopied for use with your machine operator training.

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