

T35100

S/N 366611001
& above

T35100L

S/N 366311001
& above

T35100SL

S/N 366211001
& above

T35120L

S/N 362711001 & above
S/N 363711001 & above

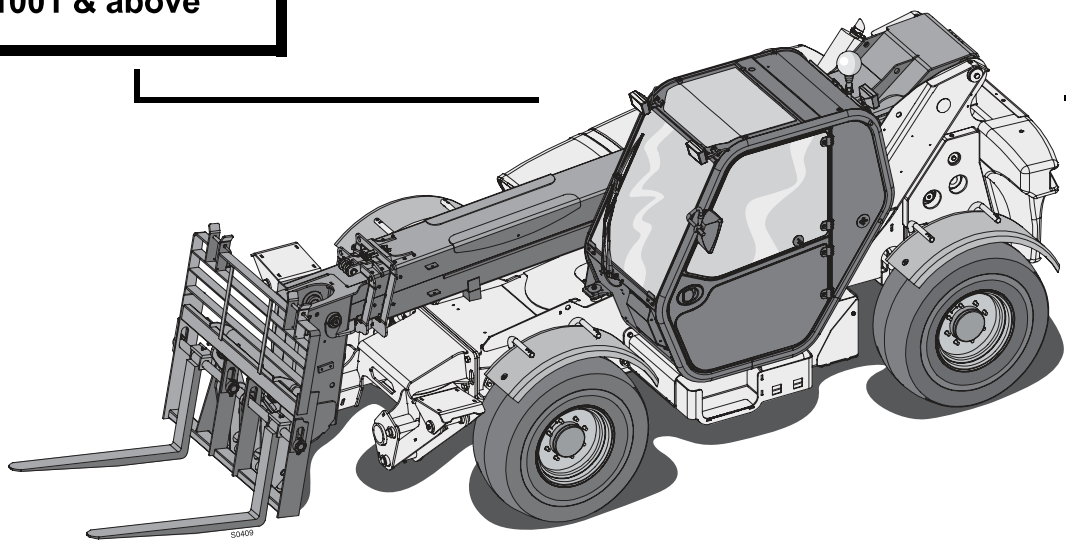
T35120SL

S/N 362611001 & above
S/N 363811001 & above



Bobcat®

SERVICE MANUAL





Bobcat®

MAINTENANCE SAFETY

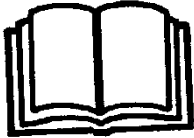


WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0903

CORRECT



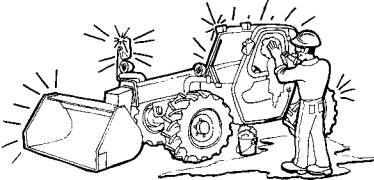
B-10731a

- ⚠ Never service the Bobcat Telescopic Handler without instructions.



Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.

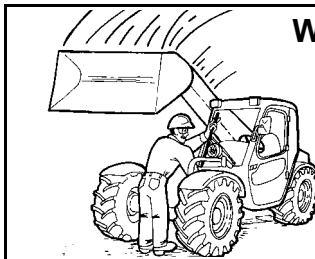
CORRECT



B-16082

- ⚠ Cleaning and maintenance are required daily.

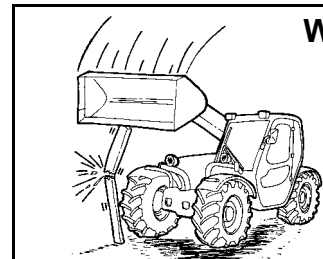
WRONG



B-16080

- ⚠ Disconnecting or loosening any hydraulic tubeline, hose, fitting, component or a part failure can cause boom to drop. Do not go under boom when raised unless supported by an approved boom stop. Replace if damaged.

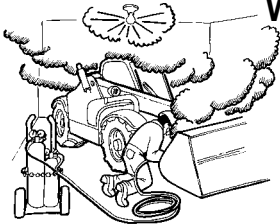
WRONG



B-16079

- ⚠ Never work on Telescopic Handler with boom up unless boom is held by an approved boom stop. Replace if damaged.
- ⚠ Never modify equipment or add attachments not approved by Bobcat Company.

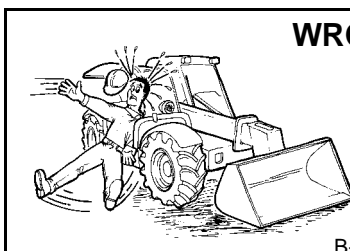
WRONG



B-16081

- ⚠ Have good ventilation when welding or grinding painted parts.
- ⚠ Wear dust mask when grinding painted parts. Toxic dust and gas can be produced.
- ⚠ Avoid exhaust fume leaks which can kill without warning. Exhaust system must be tightly sealed.

WRONG



B-16078

- ⚠ Keep body, jewelry and clothing away from moving parts, electrical contact, hot parts and exhaust.
- ⚠ Wear eye protection to guard from battery acid, compressed springs, fluids under pressure and flying debris when engines are running or tools are used. Use eye protection approved for type of welding.

WRONG



B-6589

- ⚠ Lead-acid batteries produce flammable and explosive gases.
- ⚠ Keep arcs, sparks, flames and lighted tobacco away from batteries.
- ⚠ Batteries contain acid which burns eyes or skin on contact. Wear protective clothing. If acid contacts body, flush well with water. For eye contact flush well and get immediate medical attention.

Maintenance procedures which are given in the Operation & Maintenance Manual can be performed by the owner/operator without any specific technical training. Maintenance procedures which are **not** in the Operation & Maintenance Manual must be performed **ONLY BY QUALIFIED BOBCAT SERVICE PERSONNEL**. Always use **genuine Bobcat replacement parts**.

MSW12-0805



Bobcat®

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**SAFETY &
MAINTENANCE**

**HYDRAULIC
SYSTEM**

**HYDROSTATIC
SYSTEM**

**DRIVE
SYSTEM**

MAIN FRAME

**ELECTRICAL
SYSTEM &
ANALYSIS**

**ENGINE
SERVICE**


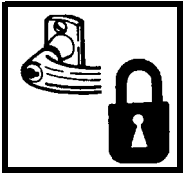

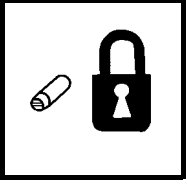
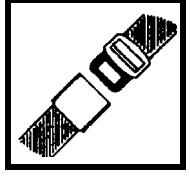
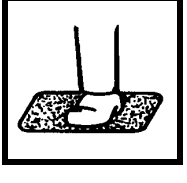
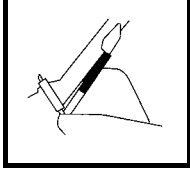
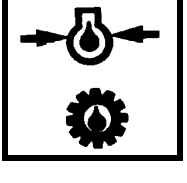

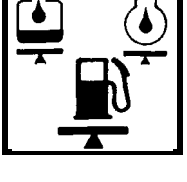
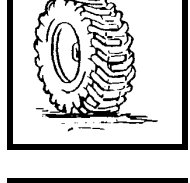
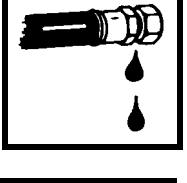
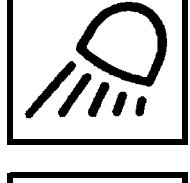
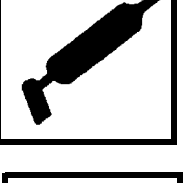

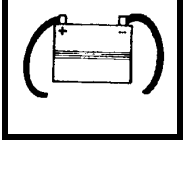
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SPECIFICATIO

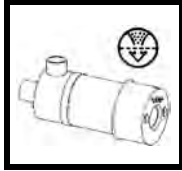
FOREWORD

This manual is for the Bobcat Telescopic Handler mechanic. It provides necessary servicing and adjustment procedures for the Bobcat Telescopic Handler and its component parts and systems. Refer to the Operation & Maintenance Manual for operating instructions, starting procedure, daily checks, etc.

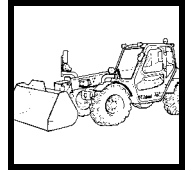
A general inspection of the following items must be made after the Telescopic Handler has had service or repair:

- | | | | |
|---|---|---|---|
| 1. Check that ROPS/FOPS (including right side window) is in good condition and is not modified. |  | 9. Enclosure door latches must open and close freely. |  |
| 2. Check that ROPS mounting hardware is tightened and is Bobcat approved. |  | 10. Attachment locking pins must function correctly and be in good condition. |  |
| 3. The seat belt must be correctly installed, functional and in good condition. |  | 11. Safety treads must be in good condition. |  |
| 4. Check boom support device, replace if damaged. |  | 12. Check for correct function of indicator lamps and gauges. |  |
| 5. Machine signs must be legible and in the correct location. |  | 13. Check hydraulic fluid level, engine oil level and fuel supply. |  |
| 6. Check tires for wear and pressure. Use only approved tires. |  | 14. Inspect for fuel, oil or hydraulic fluid leaks. |  |
| 7. Check for correct function of the work lights. |  | 15. Lubricate the Telescopic Handler. |  |
| 8. The parking brake must function correctly. |  | 16. Check the condition of the battery and cables. |  |

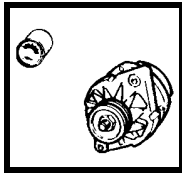
17. Inspect the air cleaner for damage or leaks. Check the condition of the element.



20. Operate the Telescopic Handler and check all functions.



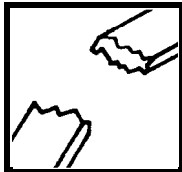
18. Check the electrical charging system.



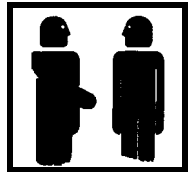
21. Check for any field modification not completed.



19. Inspect for loose or broken parts or connections.



22. Recommend to the owner that all necessary corrections be made before the machine is returned to service.





Bobcat®

SAFETY INSTRUCTIONS

Before Operation

Carefully follow the operating and maintenance instructions in this manual.

The Bobcat Telescopic Handler is highly maneuverable and compact. It is rugged and useful under a wide variety of conditions. This presents an operator with hazards associated with off highway, rough terrain applications, common with Bobcat Telescopic Handler usage.

The Bobcat Telescopic Handler has an internal combustion engine with resultant heat and exhaust. All exhaust gasses can kill or cause illness so use the Telescopic Handler with adequate ventilation.

The dealer explains the capabilities and restrictions of the Bobcat Telescopic Handler and attachment for each application. The dealer demonstrates the safe operation according to Bobcat instructional materials, which are also available to operators. The dealer can also identify unsafe modifications or use of unapproved attachments. The attachments and buckets are designed for a Rated Load Capacity. They are designed for secure fastening to the Bobcat Telescopic Handler. The user must check with the dealer, or Bobcat literature, to determine safe loads of materials of specified densities for the machine - attachment combination.

The following publications and training materials provide information on the safe use and maintenance of the Bobcat machine and attachments:

- The Delivery Report is used to assure that complete instructions have been given to the new owner and that the machine and attachment is in safe operating condition.
- The Operation & Maintenance Manual delivered with the machine or attachment gives operating information as well as routine maintenance and service procedures. It is a part of the machine and can be stored in a container provided on the machine. Replacement Operation & Maintenance Manuals can be ordered from your Bobcat dealer.
- Machine signs (decals) instruct on the safe operation and care of your Bobcat machine or attachment. The signs and their locations are shown in the Operation & Maintenance Manual. Replacement signs are available from your Bobcat dealer.
- Load Capacity Charts for each attachment are provided in the operator area. These charts indicate the Rated Load Capacity for each attachment at specified boom heights and extensions. Replacement or additional charts for new attachments are available from your Bobcat dealer.

- An Operator's Handbook is fastened to the operator cab of the Telescopic Handler. It's brief instructions are convenient to the operator. The Handbook is available from your dealer in an English edition or one of many other languages. See your Bobcat dealer for more information on translated versions.
- The AEM Safety Manual delivered with the machine gives general safety information.
- The "Safety Training for Operators of the Bobcat Telescopic Handler" course is available through your Bobcat dealer. This course is intended to provide rules and practices of correct operation of the Bobcat Telescopic Handler. The course is available in English and Spanish versions.
- See the PUBLICATIONS AND TRAINING RESOURCES Page in this manual or your Bobcat dealer for Service and Parts Manuals, printed materials, videos, or training courses available. Also check the Bobcat web sites www.training.bobcat.com or www.bobcat.com

The dealer and owner/operator review the recommended uses of the product when delivered. If the owner/operator will be using the machine for a different application(s) he or she must ask the dealer for recommendations on the new use.

SAFETY INSTRUCTIONS (CONT'D)

Safe Operation Is The Operator's Responsibility



Operator must have instructions before running the machine. Untrained operators can cause injury or death.

W-2001-1285



This notice identifies procedures which must be followed to avoid damage to the machine.

I-2019-0284



Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause injury or death.

W-2044-1285

The Bobcat Telescopic Handler and attachment must be in good operating condition before use.

Check all of the items on the Bobcat Service Schedule Decal under the 8-10 hour column or as shown in the Operation & Maintenance Manual.

Safe Operation Needs A Qualified Operator

For an operator to be qualified, he or she must not use drugs or alcoholic drinks which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine.

A Qualified Operator Must Do The Following:

Understand the Written Instructions, Rules and Regulations

- The written instructions from Bobcat Company include the Delivery Report, Operation & Maintenance Manual, Operator's Handbook, Safety Manual and machine signs (decals).
- Check the rules and regulations at your location. The rules may include an employer's work safety requirements. Regulations may apply to local driving requirements or use of a Slow Moving Vehicle (SMV) emblem. Regulations may identify a hazard such as a utility line.

Have Training with Actual Operation

- OSHA Rule 29 CFR 1910.178 (l) requires employers to train employees operating Rough Terrain Forklifts.
- Operator training must consist of a demonstration and verbal instruction. This training is given by your Bobcat dealer before the product is delivered.
- The new operator must start in an area without bystanders or structures and use all the controls until he or she can operate the machine and attachment safely under all conditions of the work area. Always fasten seat belt before operating.
- Operator Training Courses are available from your Bobcat dealer in English and Spanish. They provide information for safe and efficient equipment operation. Safety videos are also available.

Know the Work Conditions

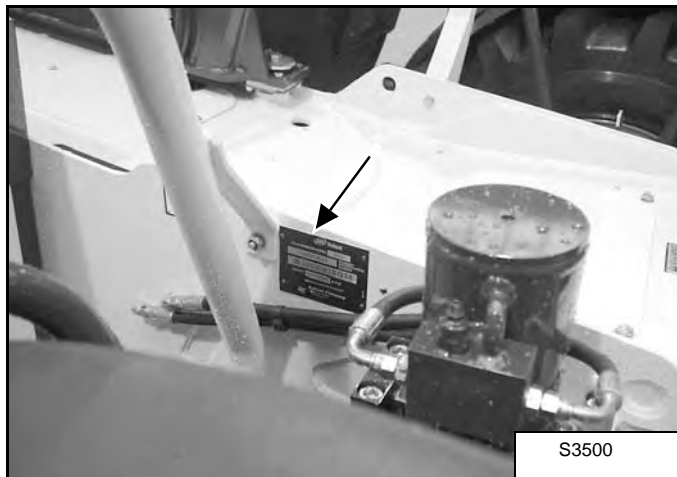
- Know the weight of the materials being handled. Avoid exceeding the Rated Load Capacity of the machine (as indicated on the Load Capacity Charts). Material which is very dense will be heavier than the same volume of less dense material. Reduce the size of load if handling dense material.
- The operator must know any prohibited uses or work areas, for example, he or she needs to know about excessive slopes.
- Know the location of any underground lines. Call local utilities for more information on this.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, hearing protection or Front Window Guard are required for some work. See your Bobcat dealer about Bobcat Safety Equipment.

SERIAL NUMBER LOCATIONS

Always use the serial number of the Telescopic Handler when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation.

Telescopic Handler Serial Number

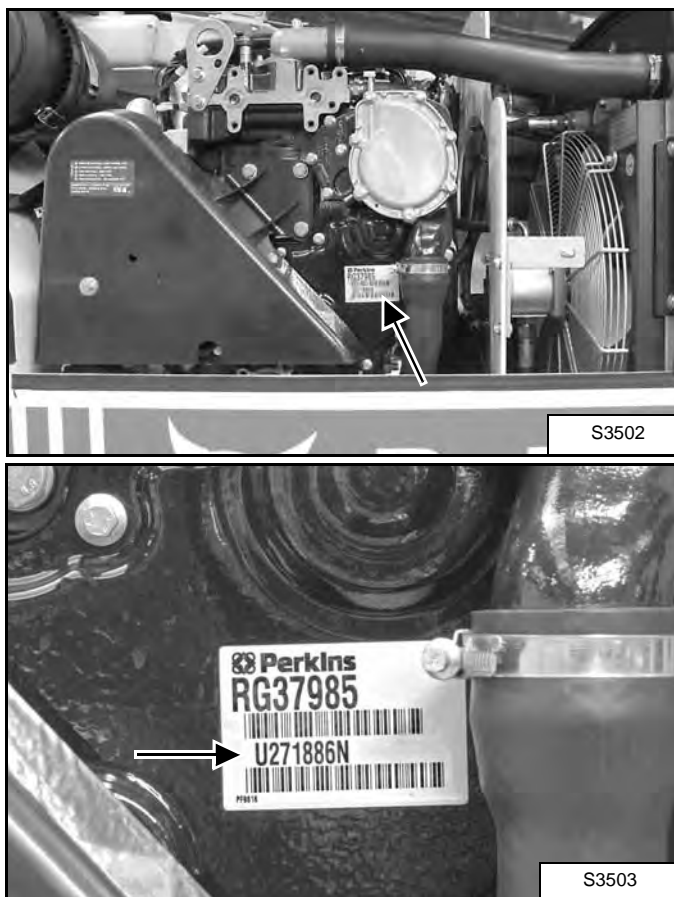
Figure 1



The front, on the right side of the chassis [Figure 1].

Engine Serial Number

Figure 2



The engine serial number can be found on the cylinder block [Figure 2] in front of you when opening the engine cover. Always use the full number when ordering replacement parts.

Other Serial Numbers

Some components may also have serial numbers. Always use these serial numbers when requesting parts.

Delivery Report

The Delivery Report must be filled out by the dealer and signed by the owner or operator when the Telescopic Handler is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely [Figure 3].

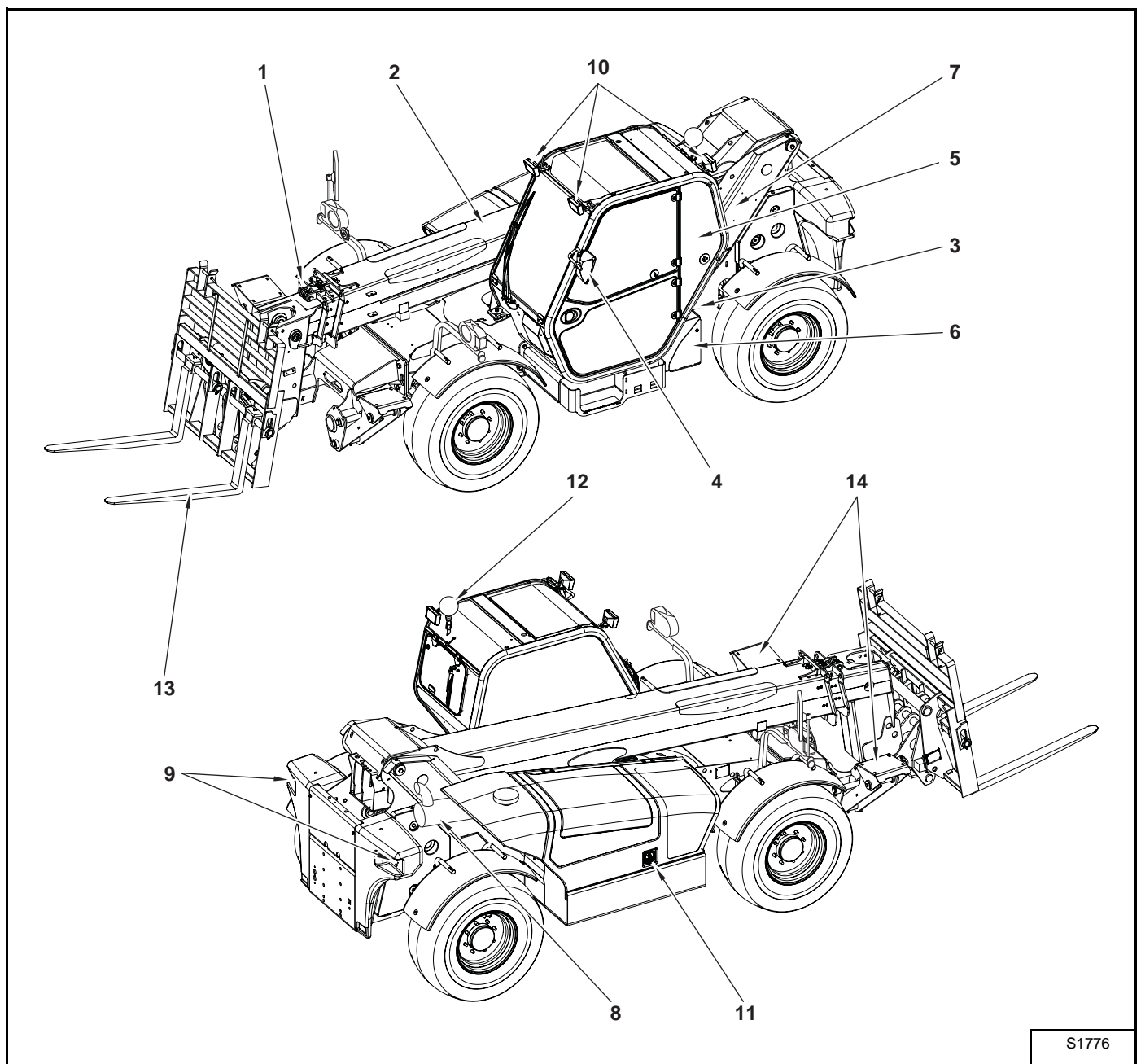
Figure 3

A diagram of a 'DELIVERY REPORT' form. The form is divided into several sections: a top section with multiple lines for text, a 'WARNING' section with a bold header and several lines of text, and a bottom section with more lines for text. The form is labeled B-16315 in the bottom right corner.

Identification of the telescopic handler

Reference	Designation
1	Telescopic boom
2	Boom
3	Fuel tank
4	Mirror
5	Operator Cab
6	Battery compartment
7	Boom stop (opt.)
8	Engine exhaust
9	Lights
10	Working Lights
11	Engine cover
12	Rotating beacon
13	Pallet forks
14	Stabilisers (only for T35100SL and T35120SL)

Figure 1



S1776

SAFETY AND MAINTENANCE

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 Replacing Filter Element10-60-1

OPTIONAL APPROVED BOOM STOP10-150-1
 Installing The Approved Boom Stop10-150-1
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363712000).10-110-1
 Checking Oil Level (Front Differential)10-110-2
 Checking Oil Level (Planetary Carrier)10-110-1
 Checking Oil Level (Rear Differential)10-110-2
 Draining Oil (Front Differential)10-110-2
 Draining Oil (Planetary Carrier)10-110-1
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AXLES (FRONT AND REAR) (For S/N 366211001 and Above, S/N
366311001 and Above, S/N 366611001 and Above, S/N 362612001 and
Above, S/N 363812001 and Above, S/N 362712001 and Above, S/N
363712001 and Above)10-111-1
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TRANSPORTING THE Telescopic Handler	10-30-1
Procedure	10-30-1

LIFTING AND BLOCKING THE TELESCOPIC HANDLER

Procedure

⚠ WARNING

AVOID INJURY OR DEATH

- Before lifting, check fasteners on four point lift.
- Never allow riders in the cab or bystanders within 15 ft. (5 m) while lifting the machine.

W-2160-0694

Before lifting: Remove all attachments, lower boom fully, position wheels straight forward and stop the machine.

Attach the lift hooks to the following lifting points (Items 1) [Figure 10-10-1] and [Figure 10-10-2]:

Figure 10-10-1

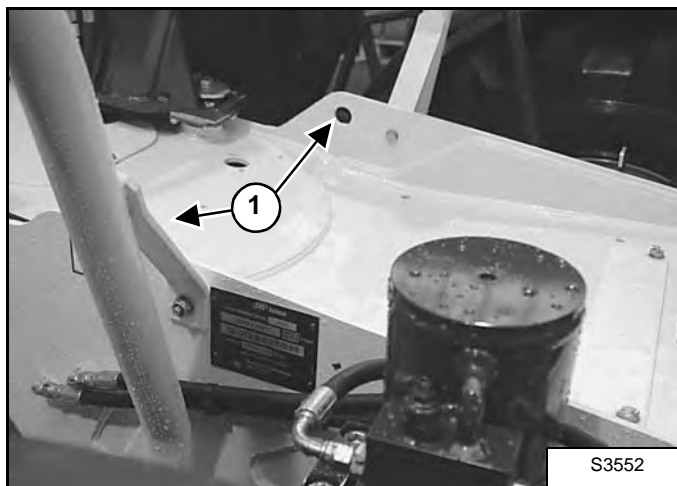


Figure 10-10-2



Take into account the position of the machine's center of gravity:

Figure 10-10-3

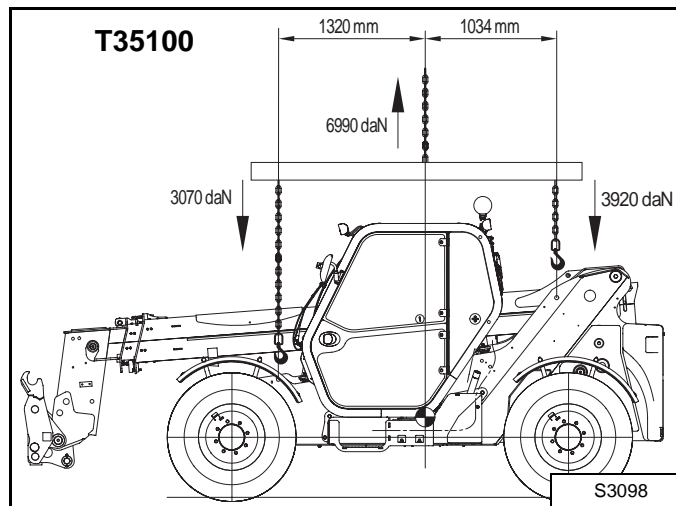


Figure 10-10-4

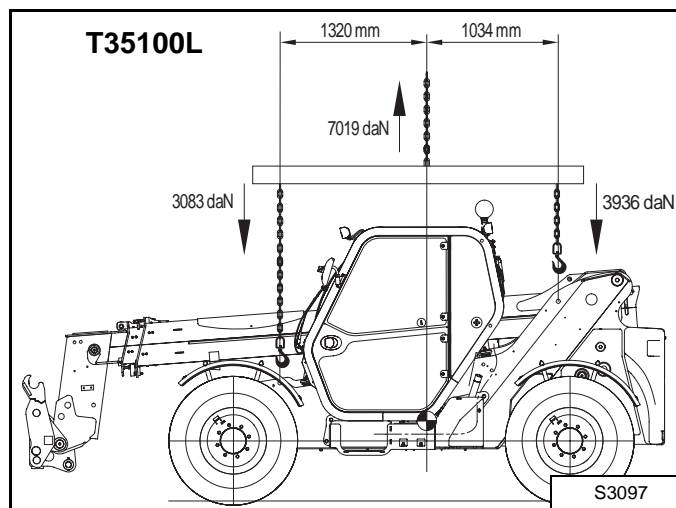


Figure 10-10-5

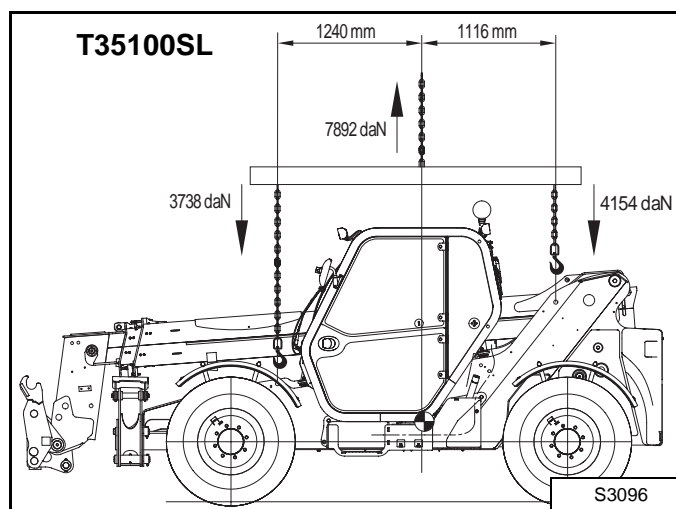


Figure 10-10-6

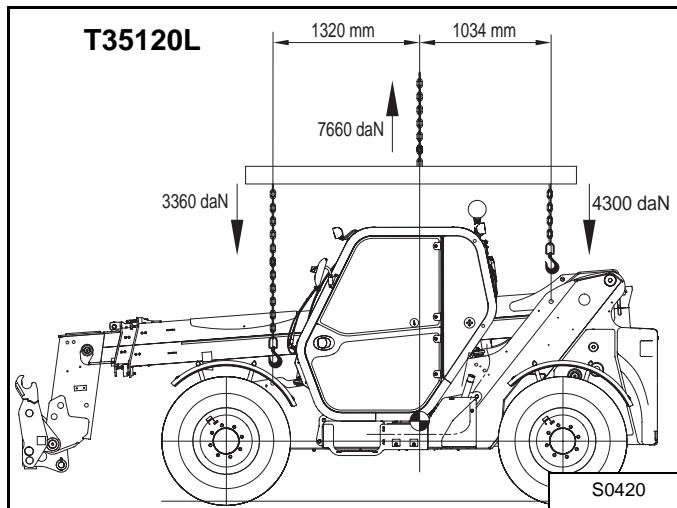
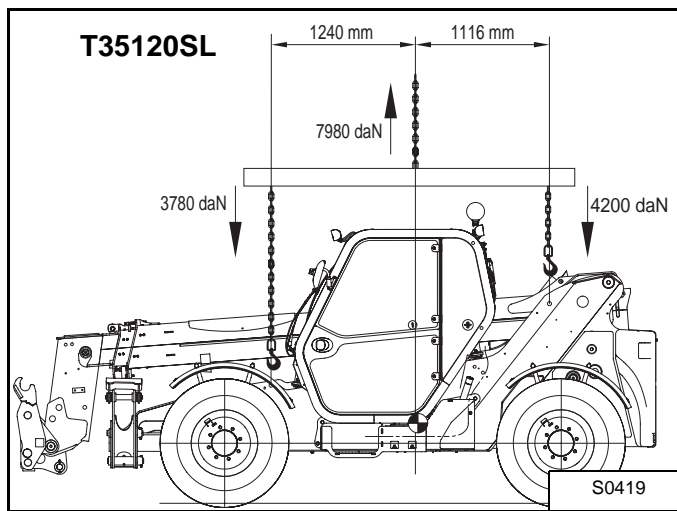


Figure 10-10-7



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