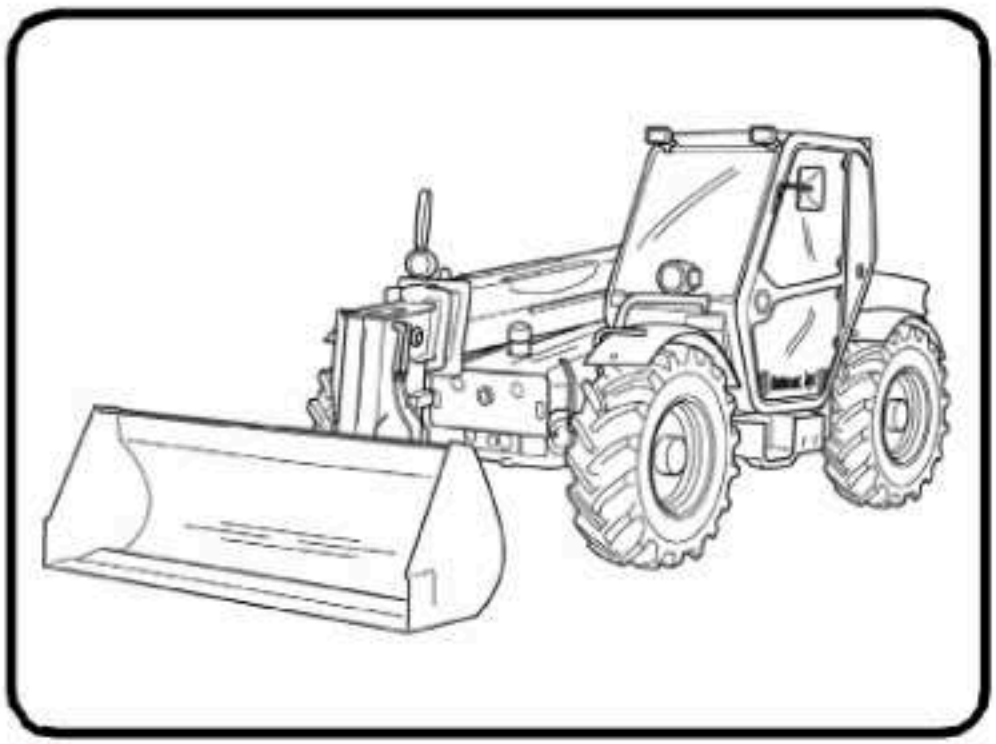
EN

Bobcat®

Operation & Maintenance Manual
T35120(S)L Telescopic Handler

S/N A8GV13000 & Above
S/N A8GJ13000 & Above



6989555-EN (02-10)

Printed in Belgium
Original Instructions

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REFERENCE INFORMATION

Write the correct information for YOUR Bobcat telescopic handler in the spaces below. Always use these numbers when referring to your Bobcat telescopic handler.

Telescopic Handler Serial Number _____

Engine Serial Number _____

NOTES:

_____

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

CE

Doosan Benelux SA
Drève Richelle 167
B-1410 WATERLOO
Belgium

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FOREWORD

This Operation & Maintenance Manual was written to give the owner / operator instructions on the safe operation & maintenance of the Bobcat telescopic handler. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT TELESCOPIC HANDLER. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your telescopic handler.

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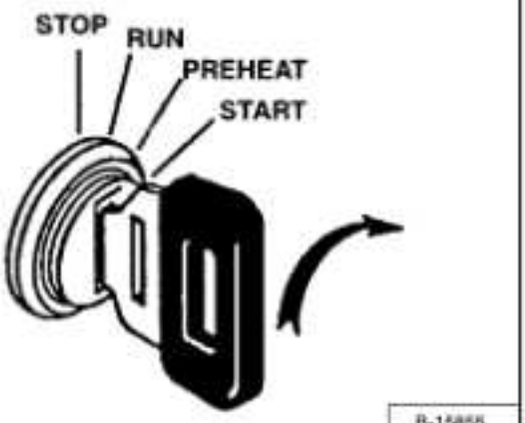
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STARTING THE ENGINE

Perform the *PRE-STARTING PROCEDURE.* (See PRE-STARTING PROCEDURE on Page 66.) (See DAILY INSPECTION on Page 64.) Put the Travel Direction Control Lever in neutral and all other controls in neutral.

Figure 46



Turn the key switch to RUN **[Figure 46]**. The instrument panel lights will come ON.

Turn the key switch to PREHEAT **[Figure 46]**. Hold the key in preheat position for 15 seconds.

NOTE: Do not activate glow plugs for more than 30 seconds or glow plug damage may occur.

Turn the key switch to START and release it when the engine starts. The key will return to the RUN position.

NOTE: Travel Direction Control Lever must be in neutral and the Front Auxiliary Hydraulics Detent Switch (Item 11, [Figure 13 on Page 45]) must be OFF to start the engine.

IMPORTANT

Do not engage the starter for longer than 30 seconds at a time. Longer use can damage the starter by overheating. Cool the starter for one minute between uses.

I-2209-0301

WARNING

AVOID INJURY OR DEATH

- **Engines can have hot parts and hot exhaust gas. Keep flammable material away.**
- **Do not use machines in atmosphere containing explosive gas.**

W-2051-1086

WARNING

AVOID INJURY OR DEATH

When an engine is running in an enclosed area, fresh air must be added to avoid concentration of exhaust fumes. If the engine is stationary, vent the exhaust outside. Exhaust fumes contain odorless, invisible gases which can kill without warning.

W-2050-0807

WARNING

Do not use ether with preheat systems. Explosion can result which can cause injury or death.

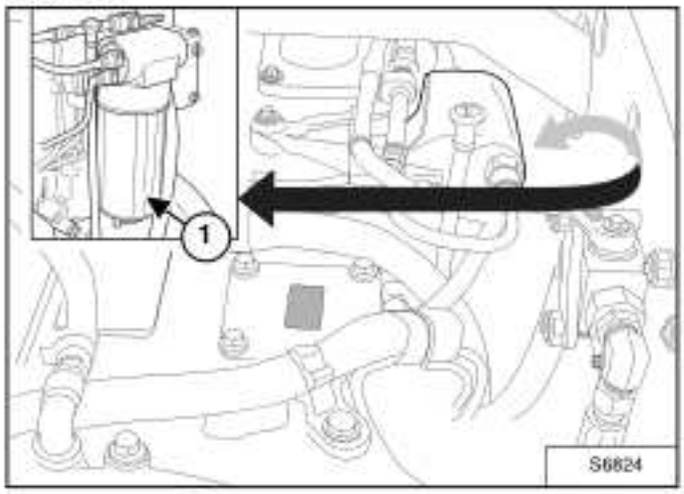
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Secondary Fuel Filter

See the SERVICE SCHEDULE for the service interval when to replace the secondary fuel filter. (See SERVICE SCHEDULE on Page 93.)

Figure 93



Remove the filter element (Item 1) **[Figure 93]**.

Clean the area around the filter housing.

Install the new filter element with a new seal, and hand tighten.

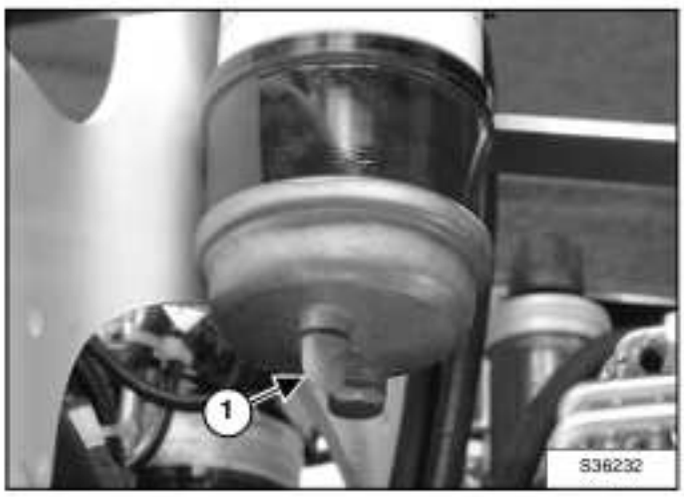
Remove air from the fuel system. (See Removing Air From The Fuel System on Page 102.)

Primary Fuel Filter (Pre-Filter)

See the SERVICE SCHEDULE for the service interval when to replace the fuel filter. (See SERVICE SCHEDULE on Page 93.)

Replacing Element

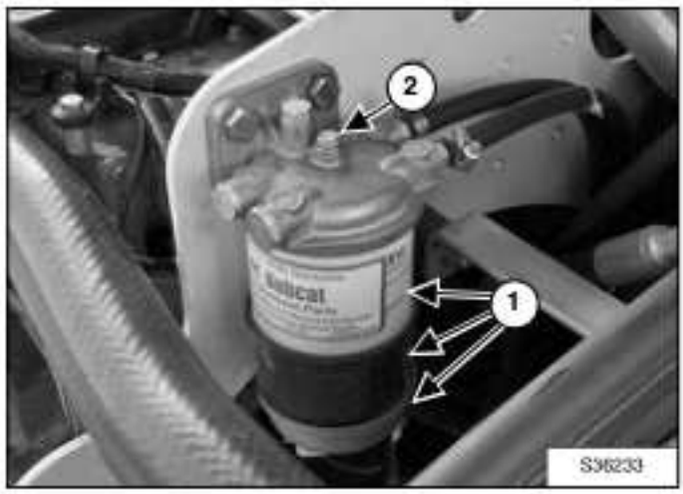
Figure 94



Open the drain valve (Item 1) **[Figure 94]** on the bottom cover of the fuel primary filter and allow the fluid to drain into a container.

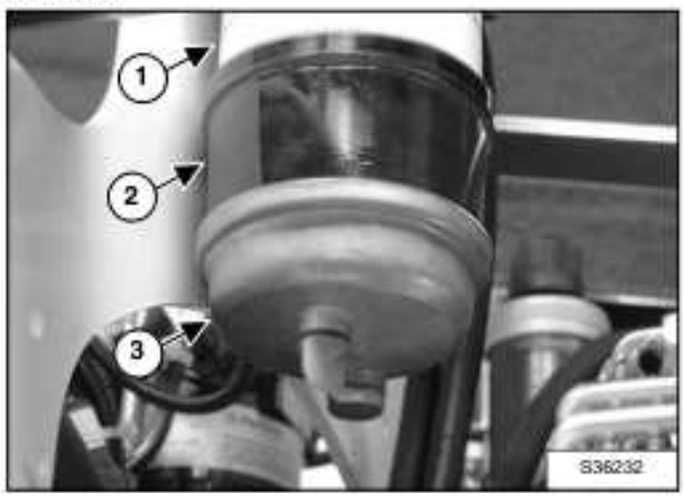
Tighten the drain valve (Item 1) **[Figure 94]** by hand pressure.

Figure 95



Hold the filter assembly (Item 1) and remove the screw (Item 2) **[Figure 95]**.

Figure 96



Remove the filter element (Item 1), bowl (Item 2) and bottom cover (Item 3) **[Figure 96]** from the filter housing.

Clean the area around the filter housing and reinstall using a new filter element (Item 1) **[Figure 96]**.

Remove air from the fuel system. (See Removing Air From The Fuel System on Page 102.)

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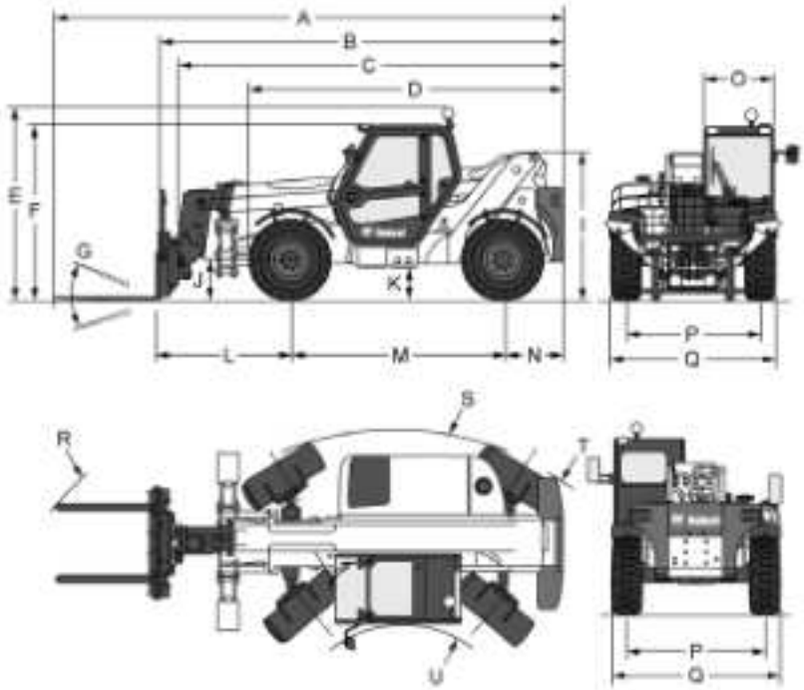
(T35120SL) TELESCOPIC HANDLER SPECIFICATIONS

WARNING

Each attachment and each Telescopic Handler have different Load Capacity Charts. For example: An 84 inch bucket used on a T2250 will have its own chart; that same 84 inch bucket when used on a T3571 will have a different chart. Be sure you use the correct chart for your attachment and Telescopic Handler combination.

Dimensions are given for machine equipped with standard tyres and can vary with other tyre types.
Where applicable, specifications conform to SAE, ASME or ISO standards and are subject to change without notice.

Dimensional Specifications



(A) Overall length (with forks)	267.3 in. (6789 mm)
(B) Overall length (with carriage)	219.8 in. (5584 mm)
(C) Overall length (without attachment)	215 in. (5461 mm)
(D) Overall length (to front tyres)	148.6 in. (3775 mm)
(E) Overall height (with rotating beacon)	102.8 in. (2610 mm)
(F) Overall height	90.4 in. (2295 mm)
(G) Carriage rotation angle	145°
(I) Height to back of the machine	81.9 in. (2079 mm)
(J) Ground clearance	16.5 in. (419 mm)
(M) Wheelbase	112.2 in. (2850 mm)
(N) Rear axle to back of machine	31.5 in. (800 mm)
(O) Operator cab outside width	36.6 in. (930 mm)
(P) Track width (front & rear)	71.3 in. (1812 mm)
(Q) Width over standard tyres	87.2 in. (2216 mm)
(R) External turning radius (with forks spaced 1200 mm ext.)	212.6 in. (5400 mm)
(R) External turning radius (with forks spaced 1040 mm ext.)	210.6 in. (5350 mm)
(R) External turning radius (with forks spaced 1360 mm ext.)	214.6 in. (5450 mm)
(S) External turning radius (at tyres)	153.5 in. (3900 mm)
(T) External turning radius (at counterweight)	157.5 in. (4000 mm)
(U) Internal turning radius	53.9 in. (1370 mm)
Height to steering wheel	63 in. (1600 mm)
Width with stabilisers down	97.4 in. (2475 mm)
Height of lifted stabilisers	45.9 in. (1165 mm)
Operator cab inside width	36.2 in. (920 mm)
Front wheel lifting when on stabilisers	4.7 in. (120 mm)
External turning radius (at lifted stabilisers with blocks flipped over)	171.6 in. (4360 mm)

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No-Text Safety Signs (Cont'd)

3. Falling Off Attachment (79523.7)

The safety sign is located on the boom head.



⚠ WARNING

Do not use the forks as lift for personnel or work platform.
Do not transport passengers.
Danger of serious injury or death from falling.

---

4. Lowering Attachment or Load (79524.5)

The safety sign is located on the boom head.



⚠ WARNING

Danger of serious injury or death from dropping or lowering an attachment or load.
Keep bystanders away.

---

5. Welding (92941.4)

The safety sign is located on both sides of the back of the machine.



⚠ WARNING

Read instructions before welding.

(See Welding And Grinding on Page 22.)

6. Electrocution (79526.0)

The safety sign is located at the back of the engine compartment.



⚠ WARNING

Danger of electrocution or explosion of the battery.

(See Electrical on Page 21.)

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Safe Operation Is The Operator's Responsibility

Safety Alert Symbol

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

WARNING

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

W-2001-0502

IMPORTANT

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

I-2019-0284

DANGER

The signal word DANGER on the machine and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.

D-1002-1107

WARNING

The signal word WARNING on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

W-2044-1107

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 co-ordination 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 and machine signs (decals).
- Check the rules and regulations at your location. The rules may include an employer's work safety requirements. For driving on public roads, the machine must be equipped as stipulated by the local regulations authorising operation on public roads in your specific country. Regulations may identify a hazard such as a utility line.

Have Training with Actual Operation

- 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.

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.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service. Safety glasses, respiratory equipment, hearing protection or Front Window Guard are required for some work See your Bobcat dealer about Bobcat Safety Equipment.

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