

Operation & Maintenance Manual





(TL35.70) S/N ANL714000 - ANL716000, ANL716001 & Above (TL35.70X) S/N ANMG14000 - ANMG16000, ANMG16001 & Above



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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:

C€^{*}

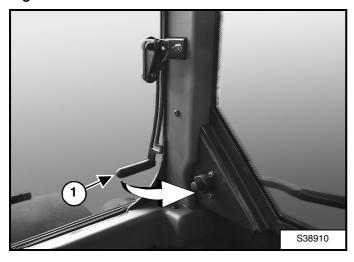
Bobcat Company P.O. Box 128 Gwinner, ND 58040-0128 UNITED STATES OF AMERICA Doosan Bobcat EMEA s.r.o. U Kodetky 1810 26312 Dobris Czech Republic

^{*} If EC-equipped machine

OPERATOR CAB (CONT'D)

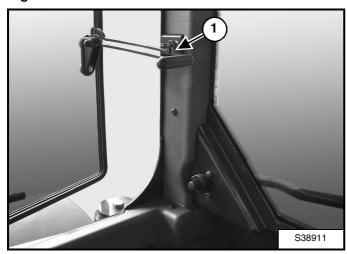
Rear Cab Window

Figure 41



Turn the handle (Item 1) [Figure 41] (as shown) to unlock the rear window.

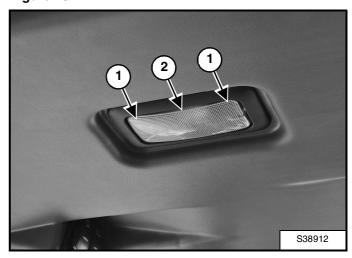
Figure 42



Push the rear window open until the handle lock (Item 1) [Figure 42] is locked in the open position (as shown).

Cab Light

Figure 43



The Cab Light [Figure 43] is located above the operator's right shoulder.

Move the lens to the left or the right (Item 1) to turn the light ON. Move the lens to the centre position (Item 2) [Figure 43] to turn the light OFF.

STEERING MODE SELECTION

Aligning Modes

To switch between the different Steering Modes (See DRIVING AND STEERING THE TELESCOPIC HANDLER on Page 63.) the operator has a choice between two aligning modes:

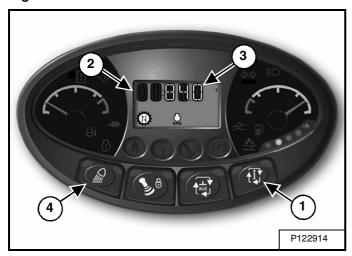
- In manual aligning mode, the operator has to make sure the front and rear wheels are straightened before selecting the desired Steering Mode.
- In semi-automatic aligning mode, the operator first has to choose the desired Steering Mode and will then receive instructions on which wheels need to be aligned. Once the wheel alignment instruction(s) (indicated by the flashing of the Front or Rear Wheel Straight indicator light) are followed, the chosen Steering Mode will be automatically activated.

NOTE: It is recommended to perform the semiautomatic alignment procedure on a daily basis.

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Steering Mode Management

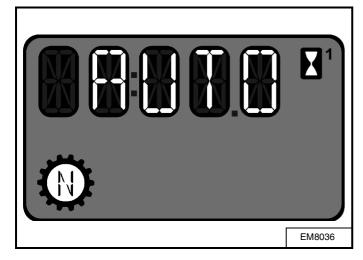
Figure 44



Press the information button (Item 1) to cycle the display screen (Item 2) until the engine speed menu (Item 3) [Figure 44] is displayed. (See Display Screen on Page 50.)

Press the work lights button (Item 4) [Figure 44] for 3 seconds until the aligning mode appears on the display screen.

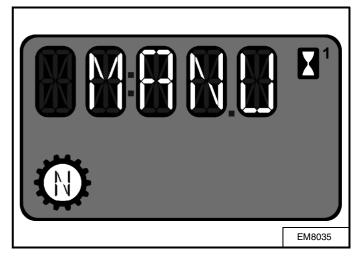
Figure 45



The semi-automatic aligning mode is the default setting. **[AUTO]** [Figure 45] appears on the display screen.

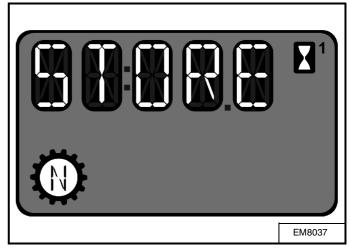
NOTE: For machines not equipped with the semiautomatic aligning mode, the manual aligning mode [Figure 46] will be the default setting.

Figure 46



Press the work lights button (Item 4) [Figure 44] once to switch to the manual aligning mode. [MANU] [Figure 46] will appear on the display screen. Pressing the work lights button again will switch back the aligning mode to semi-automatic.

Figure 47



Press the work lights button (Item 4) [Figure 44] for 3 seconds until [STORE] [Figure 47] appears on the display screen. The selected aligning mode has been saved now and will become active.

Press the information button (Item 1) [Figure 44] once to return to the engine hour menu.

Semi-Automatic Aligning Mode Procedure

Figure 48

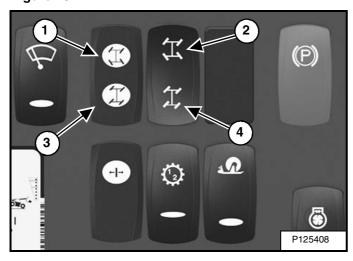


Figure 49



4-Wheel Steering (Top Switch Position)

The front wheels will turn the direction that the steering wheel is turned. The rear wheels turn the opposite direction. Indicator light (Item 1) [Figure 48] will be ON. Use in most working conditions. (See 4-Wheel Steering Mode on Page 63.)

Perform the following procedure to activate the 4-wheel steering mode:

Press top of the switch (Item 2) [Figure 48]. If the front and rear wheels are straight ahead, the 4-wheel steering mode will be activated.

If the front and / or rear wheels are not straight ahead, the semi-automatic aligning procedure will start:

- If the rear wheels are not straight ahead, the Rear Wheels Straight indicator light (Item 1) [Figure 49] will flash. Turn the steering wheel until the light stays ON. The rear wheels are straight ahead now.
- 2. If the front wheels are straight ahead, the 4-wheel steering mode is active now.
- If the front wheels are not straight ahead, the Front Wheels Straight indicator light (Item 2) [Figure 49] will flash. Turn the steering wheel until the light stays ON. The front wheels are straight ahead now.
- 2. The 4-wheel steering mode is active now.

Semi-Automatic Aligning Mode Procedure (Cont'd)

2-Wheel Steering (Centre Switch Position)

The front wheels will turn the direction that the steering wheel is turned. The rear wheels remain straight ahead. Use when travelling on roads at higher speeds. (No indicator light is on when in 2-wheel steering mode.) (See 2-Wheel Steering Mode on Page 65.)

Perform the following procedure to activate the 2-wheel steering mode:

Move the switch (Item 2) **[Figure 48]** to the centre position. If the rear wheels align straight ahead, the 2-wheel steering mode will be activated.

If the rear wheels do not align straight ahead, the semiautomatic aligning procedure will start:

- The Rear Wheels Straight indicator light (Item 1)
 [Figure 49] will flash. Turn the steering wheel until the
 light stays ON. The rear wheels align straight ahead
 now.
- 2. The 2-wheel steering mode is activated now.

Crab Steering (Bottom Switch Position)

Front and rear wheels turn the same direction that the steering wheel is turned. The machine moves diagonally in the direction the steering wheel is turned. Indicator light (Item 3) [Figure 48] will be ON. Use in confined areas to move away from buildings or to reposition the machine. (See Crab Steering Mode on Page 67.)

Perform the following procedure to activate the crab steering mode:

Press the bottom of the switch (Item 4) [Figure 48]. If the front and rear wheels align straight ahead, the crab steering mode will be activated.

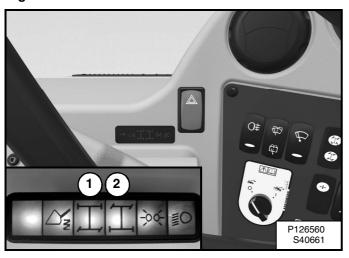
If the front and / or rear wheels do not align straight ahead, the semi-automatic aligning procedure will start:

- If the rear wheels are not straight ahead, the Rear Wheels Straight indicator light (Item 1) [Figure 49] will flash. Turn the steering wheel until the light stays ON. The rear wheels align straight ahead now.
- 2. If the front wheels align straight ahead, the crab steering mode is active now.
- If the front wheels do not align straight ahead, the Front Wheels Straight indicator light (Item 2) [Figure 49] will flash. Turn the steering wheel until the light stays ON. The front wheels align straight ahead now.
- 2. The crab steering mode is activated now.

Manual Aligning Mode Procedure

Before changing the Steering Mode, all four wheels must be straight ahead.

Figure 50



Front Wheels Straight indicator light (Item 1) and Rear Wheels Straight indicator light (Item 2) [Figure 50] must be ON.

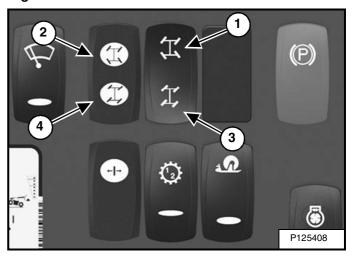
Turn the steering wheel until both lights are ON.

NOTE: If the wheels do not align straight ahead, use the following procedure:

- 1. Put the Steering Mode Switch in 4-Wheel Steering and turn the steering wheel until the rear wheels align straight ahead.
- 2. Put the Steering Mode Switch in 2-Wheel Steering and turn the steering wheel until the front wheels align straight ahead.

Now you can select the desired Steering Mode and the machine will steer correctly.

Figure 51



4-Wheel Steering (Top Switch Position)

Press the top of the switch (Item 1). The front wheels will turn the direction that the steering wheel is turned. The rear wheels turn the opposite direction. Indicator light (Item 2) [Figure 51] will be ON. Use in most working conditions. (See 4-Wheel Steering Mode on Page 63.)

2-Wheel (Front) Steering (Centre Switch Position)

Move the switch (Item 1) [Figure 51] to the centre position. The front wheels will turn the direction that the steering wheel is turned. The rear wheels remain straight ahead. Use when travelling on roads at higher speeds. (No indicator light is on when in 2-wheel steering mode.) (See 2-Wheel Steering Mode on Page 65.)

Crab Steering (Bottom Switch Position)

Press the bottom of the switch (Item 3). Front and rear wheels turn the same direction that the steering wheel is turned. The machine moves diagonally in the direction the steering wheel is turned. Indicator light (Item 4) [Figure 51] will be ON. Use in confined areas to move away from buildings or to reposition the machine. (See Crab Steering Mode on Page 67.)

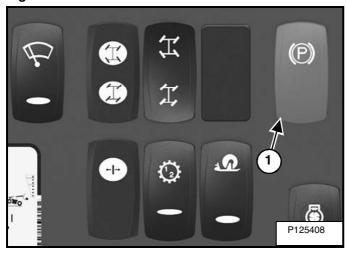
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PARKING BRAKE

Operation

Parking Brake Switch

Figure 52



NOTE: In case of failure of the service brake, the parking brake can be used as emergency brake.

Parking Brake Activation:

Press the bottom of the parking brake switch (Item 1) [Figure 52] to engage the parking brake. The light will turn on.

The parking brake will engage automatically when:

- the engine is OFF;
- the engine is ON with engine rpm at low idle AND the travel direction control is in NEUTRAL.

Parking Brake Deactivation:

Press the bottom of the parking brake switch (Item 1) [Figure 52] to release the parking brake. The light will turn off.

The parking brake will release automatically when:

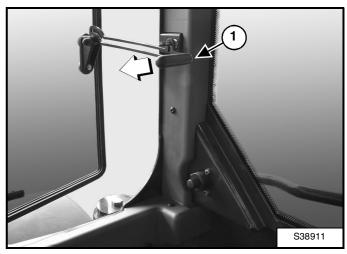
 the engine is ON with the engine rpm higher than low idle AND the travel direction control is out of NEUTRAL.

EMERGENCY EXIT

Rear Window

Open the rear window. (See Rear Cab Window on Page 55.)

Figure 53



Pull the handle (Item 1) [Figure 53] inward (as shown) and push the rear window fully open.

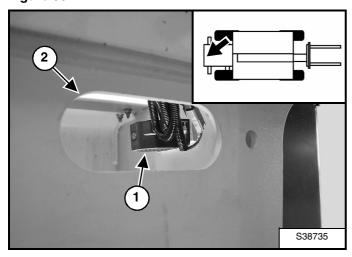
Figure 54



Exit through the rear window opening [Figure 54].

Description

Figure 55



The back-up alarm (Item 1) is located at the rear of the machine and can be accessed through an opening (Item 2) [Figure 55] in the frame.

NOTE: The frame opening (Item 2) [Figure 55] is not accessible when the machine is equipped with a rear hydraulic hook.

A back-up alarm is not a substitute for looking to the rear when operating the telescopic handler in reverse, or for keeping bystanders away from the work area. Operators must always look in the direction of travel, including reverse, and must also keep bystanders away from the work area, even though the telescopic handler is equipped with a back-up alarm.

Operators must be trained to **always** look in the direction of travel, **including when operating the telescopic handler in reverse** and to keep bystanders away from the work area. Other workers should be trained to **always** keep away from the operator's work area and travel path.

Operation

WARNING

AVOID INJURY OR DEATH

- Always keep bystanders away from the work area and travel path.
- The operator must maintain a clear view of the direction of travel and look before and during machine movement.
- The back-up alarm must sound when operating the machine in the reverse direction.

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The back-up alarm will sound when the operator prepares the telescopic handler for reverse travel. (See Travel Direction on Page 42.)

If alarm does not sound, see inspection and maintenance instructions for the back-up alarm system in the preventive maintenance section of this manual. (See BACK-UP ALARM SYSTEM on Page 151.)

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