Operator & Safety Manual

Keep this manual with machine at all times.

Model
1044C-54
Series II

Before S/N 0160037900

31200070

Revised
February 23, 2009

MidWestTech | Lull 1044C-54 Series II Telehandler Operator's Manual | Publication 312000... Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

Revision Log ..... a

Read This First. ..... b
- Operator Qualifications ..... b
- Modifications ..... b
- Other Publications Available c

Safety 1
- Danger, Warning, & Caution: What They Mean 1
- Safety Standard 1
- Decals 1
- Operators Protective Structure 1
- Refueling Safety 2
- Personal Safety 2
- Vehicle Stability 2
- Starting Safety 2
- Operation Safety 3

Before Operating the Machine 8
- Check the Equipment 8
- Know the Work Area 8
- Plan Your Work 9
- Safe Vehicle Operation 9
- Know the Rules 9
- Protect Yourself 9
- Mount and Dismount Properly 10

Instruments and Controls 12
- Gauges and Lights 12
- Ignition Switch 13
- Throttle 13
- Brake Pedal 14
- Drive Lockout Override Foot Switch 14
- Park Brake Control 14
- Shift Selector 15
  - Direction Control 15
  - Speed Range Selection 15
  - Neutral Lock 15
- Shutdown Override Switch 15
- Transmission Declutch Switch 16
- Steer Mode Selector 16
  - Front Wheel Steer Mode 17
  - Round Steer Mode 17
  - Oblique Steer Mode 17
  - Synchronizing (Straightening) the Wheels 17
- Joystick Controls 19
  - General Description 19
  - Front Joystick 19
  - Rear Joystick 20
  - Auxiliary Controls 22
  - Tilting Carriage Control 22
- Boom Angle Indicator 23
- Boom Extension Indicator 23
- Transfer Carriage Extension Indicator 23
- Frame Level Indicator 23
- Frame Tilt Control 24
- Outrigger Controls 24

General Operating Procedures 26
- Starting Procedures 26
- Shutdown Procedures 26
- Traveling 26
- Follow Safe Operating Procedures 27
- Lift the Load Safely 27
- Transport the Load Safely 27
- Safely Placing the Load 28
  - Elevated or Overhead Placement 28
- Lifting Personnel 29
- Quick Attach 30
  - Disconnecting an Attachment 30
  - Connecting an Attachment 31

Stability Systems 32
- System Safety 32
- Rear Oscillation Lock System 32
- Drive Lockout Override 32
  - Theory of Normal Operation 32
  - General Description, Drive Lockout Override System 33
  - Operation of the Drive Lockout Override System 33
- Boom/Transfer Extend Lock System 34

Fluid & Lubricant Specifications 36
- General Fluid and Lubricant Specifications 36
- Engine Oil Specifications 36
  - John Deere Engines 36
- Transmission Oil Specifications 37
- Fuel Requirements 37
  - General 37
  - John Deere Engines 37

Service/Lubrication Schedule 38

Sample Load Chart 40

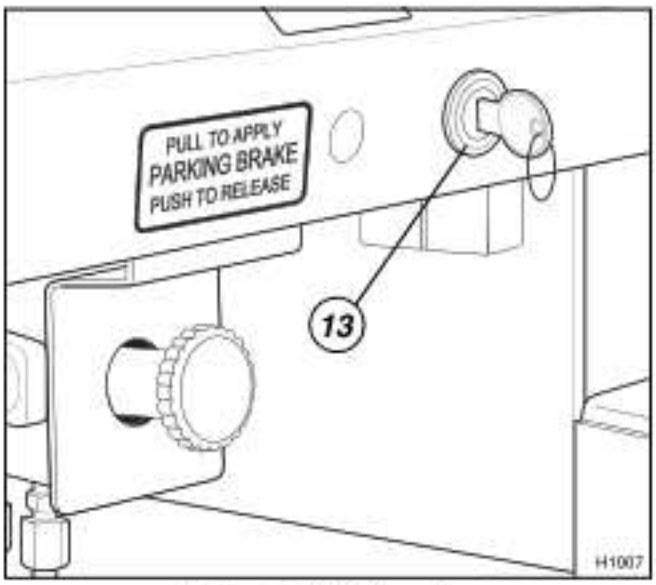
MidWestTech | Lull 1044C-54 Series II Telehandler Operator's Manual | Publication 312000... Order the manual at mid-west-tech.com >



Hourmeter

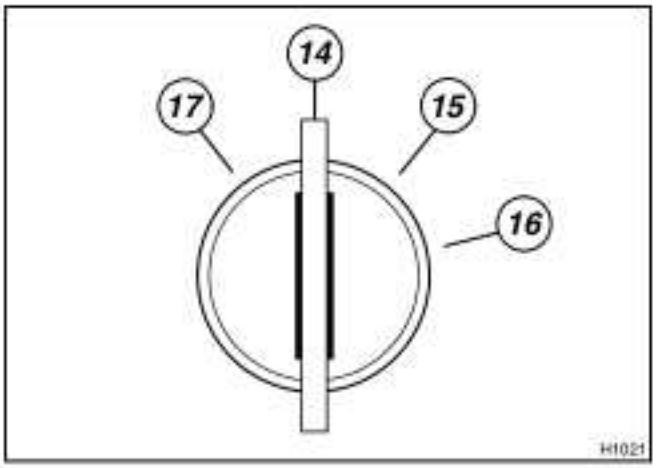
***(12)*Hourmeter**—Located on the instrument panel to the left of the Gauge and Light Cluster. Registers total hours of vehicle operation.

IGNITION SWITCH



Ignition Switch Location

The ignition switch ***(13)*** is located on the dash, near the right side.



Ignition Switch Positions

Note: *The starter will not engage unless the park brake is applied and the shift selector is placed in the NEUTRAL position.*

The ignition switch has four positions:

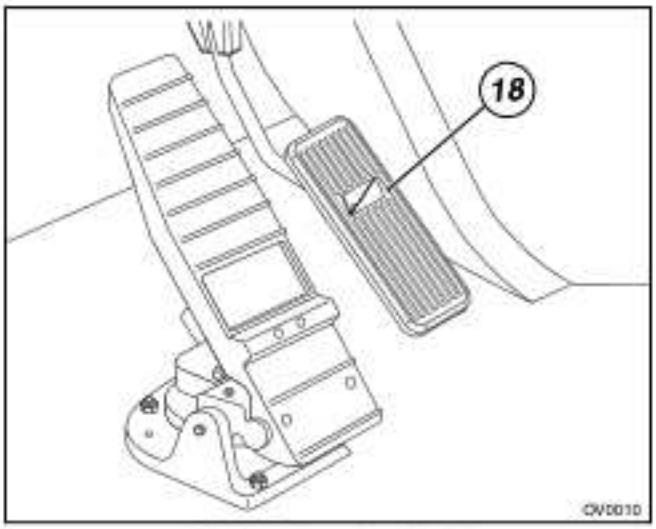
***(14)*OFF**: The key may be removed or inserted only at this position. The engine and all electrical circuits except the horn circuit are shut down at this position.

***(15)*ON**: All electrical circuits except the engine starter circuit are operational.

***(16)*START**: Activates the engine starter. When the key is released the switch will return to the ON position and remain there.

(17)This position is reserved for future use and currently has no function.

THROTTLE

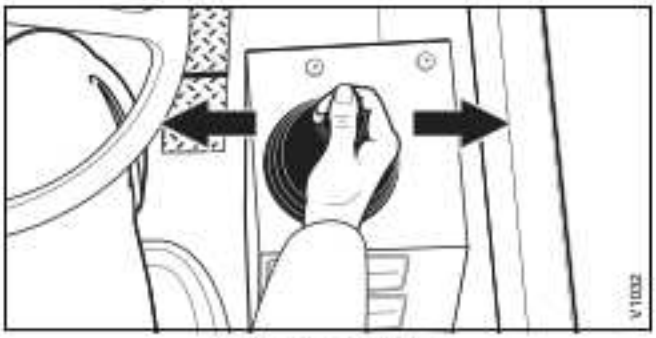


Engine Throttle Pedal

Push throttle pedal ***(18)*** down to increase engine speed.

MidWestTech | Lull 1044C-54 Series II Telehandler Operator's Manual | Publication 312000... Order the manual at mid-west-tech.com >

Auxiliary Controls



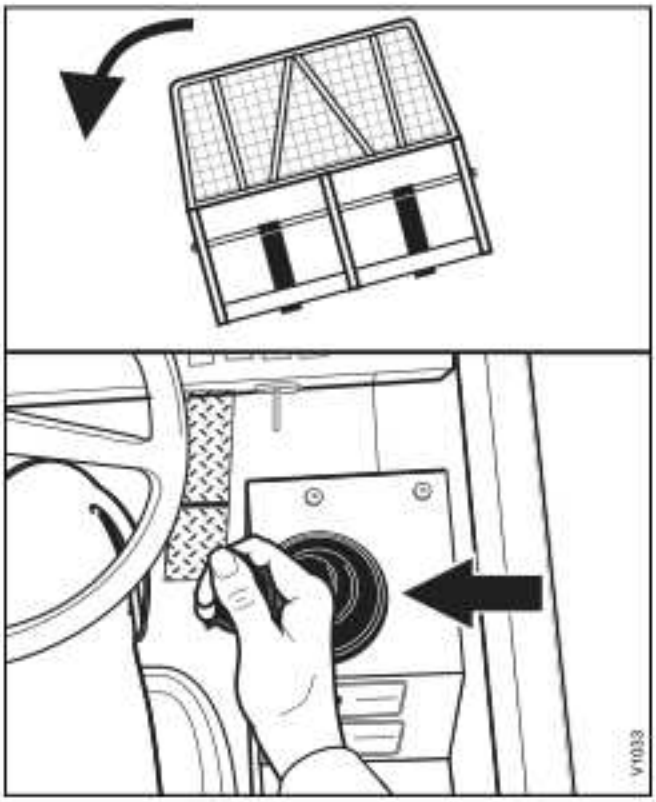
Auxiliary Controls

A switch is located on the top of the front & rear joysticks, under a protective rubber cap. Pressing this switch down with your thumb activates the auxiliary function. Hold the switch down while moving the joystick left and right.

Functions for the tilting carriage using the front joystick are shown below as an example.

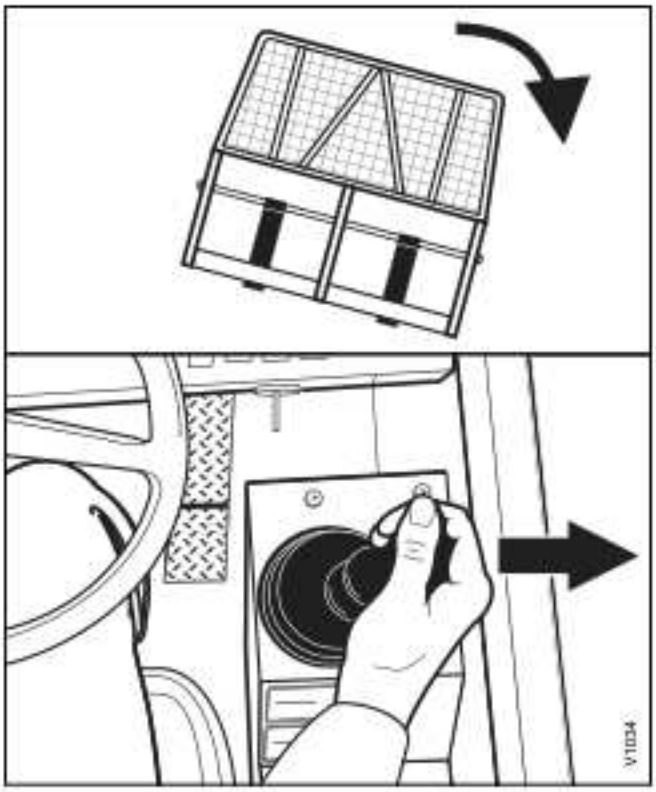
Note: *Releasing the switch while moving the joystick left or right changes the function of the joystick back to the standard joystick controls.*

Tilting Carriage Control



Rotating Tilt Carriage to Left

Holding the button down and moving the front joystick to the left rotates an optional tilting carriage to the operator's left.



Rotating Tilt Carriage to Right

Holding the button down and moving the front joystick to the right rotates an optional tilting carriage to the operator's right.

MidWestTech | Lull 1044C-54 Series II Telehandler Operator's Manual | Publication 312000... Order the manual at mid-west-tech.com >

GENERAL FLUID AND LUBRICANT SPECIFICATIONS

General Fluid & Lubricant Specifications

System or Component	Fluid or Lubricant	Specification
Fuel System[1]	See "Fuel Requirements"	
Hydraulic System	Tractor Hydraulic Fluid	Mobilfluid® 424
Engine Cooling System	See engine manufacturer's operating manual.	
Engine Oil[1]	See "Engine Oil Specifications"	
Transmission	See "Transmission Oil Specifications"	
Differential	Tractor Hydraulic Fluid	Mobilfluid® 424
Planetary Hub	Tractor Hydraulic Fluid	Mobilfluid® 424
Grease Points	Grease	Lithium-based

1. Consult engine manufacturer's Operator's Manual for additional information.

ENGINE OIL SPECIFICATIONS

John Deere Engines

Use the table below to select the oil viscosity based on expected air temperature range during the period between oil changes. Consult the John Deere Operator's Manual for additional information.

Note: *New John Deere engines use special break-in oil for the initial period of operation. Consult engine Operator's Manual for additional information.*

Engine Oil Selection Chart, John Deere

Engine Oil, John Deere		
Oil Grade	**Temperature Range °F**	**Temperature Range °C**
SAE 5W-30	-22 to +86 °F	-30 to + 30 °C
SAE 10W-30	-4 to +86 °F	-20 to +30 °C
SAE 15W-40	+5 to 122 °F	-15 to 50 °C
SAE 30W	+32 to +86 °F	0 to +30 °C
SAE 40W	+50 to +104 °F	+10 to +40 °C
Arctic Oil (e.g. MIL-L-46167B)	Below -22 °F	Below -30 °C
Approved Engine Oil Specifications		
API CD/ CE CCMC Specification D4, D5 SAE 5W-30 SAE 10W-30 SAE 15W-40 SAE 30W SAE 40W MIL-L-46167B		

MidWestTech | Lull 1044C-54 Series II Telehandler Operator's Manual | Publication 312000... Order the manual at mid-west-tech.com >