**SR130 SR200**
**SR150 SR220**
**SR175 SR250**
**SV185 SV250**
**SV300**
**Tier 3**

Alpha Series Skid Steer Loader

*PIN NGM418237 and above*

**TR270**
**TR320**
**TV380**
**Tier 3**

Alpha Series Compact Track Loader

*PIN NGM418237 and above*

# OPERATOR'S MANUAL

**Part number 47948671**
1° edition English
May 2016

CASE CONSTRUCTION

MidWestTech | Case SR130, SR200, SR150, SR220, SR175, SR250, SV185, SV250, SV30... Order the manual at mid-west-tech.com >

# Contents


## 1 GENERAL INFORMATION

Note to the owner ..... 1-1
Electro-Magnetic Compatibility (EMC) ..... 1-3
Product identification ..... 1-4
Operator's manual storage on the machine ..... 1-8
Machine orientation ..... 1-9
Machine components ..... 1-10

## 2 SAFETY INFORMATION

Safety rules and signal words ..... 2-1
Safety rules ..... 2-2
Utility safety ..... 2-8
Proper entry and exit ..... 2-9
Starting and stopping precautions ..... 2-11
Seat belt precautions ..... 2-12
Specific precautions to this machine ..... 2-14
Fire extinguisher ..... 2-14
Roll Over Protective Structure (ROPS) ..... 2-15
Welding on the machine ..... 2-17
Loader arm lock and cab tilt procedure - radial lift machines ..... 2-18
Loader arm lock and cab tilt procedure - vertical lift machines ..... 2-22
No engine power - loader arm down control ..... 2-26
Emergency exit ..... 2-27
Ecology and the environment ..... 2-28
Safety signs ..... 2-29

## 3 CONTROLS AND INSTRUMENTS

### ACCESS TO OPERATOR'S PLATFORM

Door latches, cab ..... 3-1
Window glass, cab ..... 3-2
Windshield wiper and washer controls ..... 3-2
Cab air louvers ..... 3-3

### OPERATOR'S SEAT

Standard seat ..... 3-4
Mechanical suspension seat ..... 3-4
Air seat ..... 3-4
Seat belt operation ..... 3-5
Shoulder belt ..... 3-6
Restraint bar ..... 3-6

### MECHANICAL HYDRAULIC CONTROLS

Steering and travel ..... 3-7
Moving the machine ..... 3-7
Turning the machine ..... 3-8


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Lift arm and bucket controls ..... 3-9
Hand controls ..... 3-9
Foot pedals ..... 3-10

## ELECTRO HYDRAULIC CONTROLS

Control pattern overview ..... 3-11
Standard H control pattern ..... 3-11
Standard ISO control pattern ..... 3-12
Electro-hydraulic control handle adjustment ..... 3-12
H control pattern steering and travel ..... 3-13
Hand controls ..... 3-13
Moving the machine ..... 3-14
Turning the machine ..... 3-15
H control pattern lift arm and bucket controls ..... 3-16
Lift arm raise/lower control ..... 3-16
Bucket curl/dump control ..... 3-17
ISO control pattern steering and travel ..... 3-18
Moving the machine ..... 3-18
Turning the machine ..... 3-19
ISO control pattern lift arm and bucket controls ..... 3-21
Lift arm and bucket controls ..... 3-21

## CONTROL HANDLES

Switch configurations ..... 3-22
Two-speed function ..... 3-27

## AUXILIARY HYDRAULICS

Standard auxiliary hydraulics ..... 3-28
High flow auxiliary hydraulics ..... 3-30
Enhanced High Flow (EHF) auxiliary hydraulics ..... 3-32

## INSTRUMENT CLUSTER

Electronic Instrument Cluster (EIC) ..... 3-34
Advanced Instrument Cluster (AIC) ..... 3-41
Instrument cluster ..... 3-48
Left-hand column switch identification ..... 3-64
ISO or H pattern control switch ..... 3-67
Machine lights ..... 3-68

# 4 OPERATING INSTRUCTIONS

## COMMISSIONING THE UNIT

Operating Instructions ..... 4-1

## STARTING THE UNIT

Engine operation ..... 4-3
Operating in extreme temperatures ..... 4-5
Throttle ..... 4-6

MidWestTech | Case SR130, SR200, SR150, SR220, SR175, SR250, SV185, SV250... Order the manual at mid-west-tech.com >

Booster battery procedure ..... 4-7

STOPPING THE UNIT
Parking the machine and stopping the engine ..... 4-8

MOVING THE UNIT
Machine operation ..... 4-9

5 TRANSPORT OPERATIONS

SHIPPING TRANSPORT
Transporting the machine ..... 5-1

RECOVERY TRANSPORT
Moving a disabled machine ..... 5-13

6 WORKING OPERATIONS

GENERAL INFORMATION
Mechanical attachment mounting systems ..... 6-1
Hydraulic attachment mounting systems ..... 6-4
Field operation ..... 6-6

7 MAINTENANCE

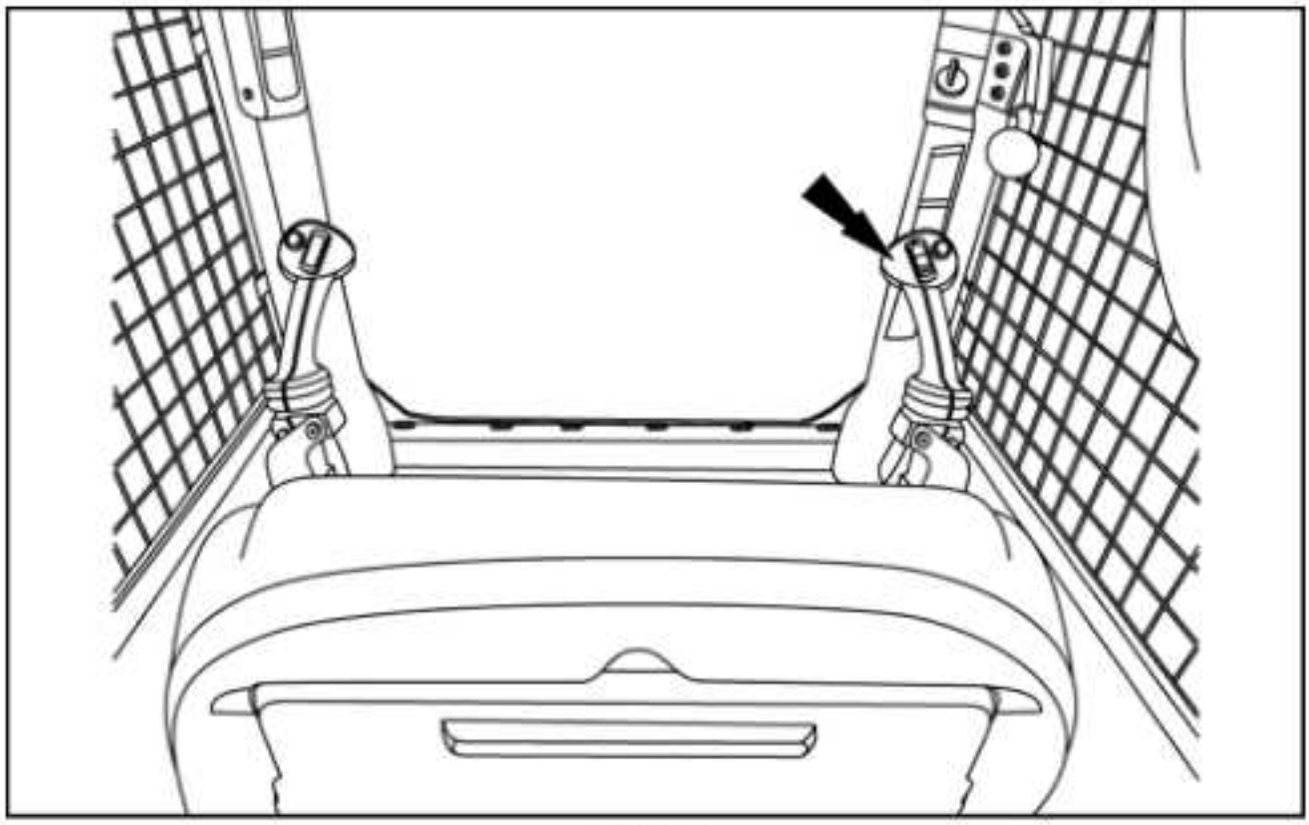
GENERAL INFORMATION
General safety before you service ..... 7-1
Lubrication analysis program ..... 7-3
Plastic and resin parts ..... 7-3
Machine cleaning ..... 7-4
Window removal and cleaning ..... 7-5
Cab door removal and installation ..... 7-7
Battery safety - check and cleaning ..... 7-8
Battery disconnect switch ..... 7-10
Fire extinguisher ..... 7-10
Engine hourmeter ..... 7-11
Fluids and lubricants ..... 7-12
Recommended engine oil for operating temperature ranges ..... 7-13
Hydraulic oil viscosity ..... 7-14
Biodiesel fuel ..... 7-15
Organic Acid Technology (OAT) coolant ..... 7-16
Lubrication and maintenance access ..... 7-18
Fuses and relays ..... 7-20

MAINTENANCE CHART
Maintenance chart ..... 7-27

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## ISO control pattern lift arm and bucket controls

### Lift arm and bucket controls



Lift arm raise and lower control.

- Pull back on the right-hand control lever to raise (up) the lift arm.
- Push the right-hand control lever forward to lower (down) the lift arm.
- The lift arm spool is equipped with a detent FLOAT circuit. In this detent position the lift arm will float over changing ground contour and the lever will remain in this position until pulled back toward the up stroke slightly.

Engage the float feature:

Press the float button on the right-hand control lever and push the lever partially forward. If the operator has the right-hand control lever already partially in the down stroke position and then presses the float button, the float feature will engage.

Disengage the float feature:

Pull back on the right-hand control lever out of the detent position.

Bucket dump and curl control.

- Pivot the right-hand control lever inward (down) and the bucket will roll back (curl).
- Pivot the right-hand control lever outward (up) and the bucket will dump.

***NOTE:*** *There is no detent or float position on the bucket dump and curl circuit.*



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## MAINTENANCE CHART

# Maintenance chart

| Maintenance action | Check | Cleaning | Grease | Drain fluid | Replace | Page no. |
|---|---|---|---|---|---|---|
| **INITIAL 10 HOURS** | | | | | | |
| Track tension check and adjustment | x | | | | | 7-28 |
| Tire pressure and wheel hardware torque | x | | | | | 7-29 |
| Alternator and air conditioning compressor (if equipped) belt tension | x | | | | | 7-31 |
| **EVERY 10 HOURS OR EACH DAY** | | | | | | |
| Clean tracks and components | | x | | | | 7-32 |
| Engine and hydraulic coolers | x | | | | | 7-32 |
| Engine coolant level | x | | | | | 7-34 |
| Engine oil level | x | | | | | 7-36 |
| Loader arm pivot points, coupler pins, and cylinder pins | | | x | | | 7-37 |
| Hydraulic oil level | x | | | | | 7-38 |
| Loader arm and bucket hydraulic interlock | x | | | | | 7-39 |
| **INITIAL 50 HOURS** | | | | | | |
| Engine oil and filter | | | | x | | 7-40 |
| Roll Over Protective Structure (ROPS) mechanism and hardware check | x | | | | | 7-42 |
| **EVERY 50 HOURS** | | | | | | |
| Cab intake filter | x | | | | | 7-43 |
| Track tension check | x | | | | | 7-44 |
| Seat belt | x | | | | | 7-45 |
| **INITIAL 100 HOURS** | | | | | | |
| Final drive oil (track models) | | | | x | | 7-46 |
| **EVERY 250 HOURS** | | | | | | |
| Fuel filter | | | | | x | 7-47 |
| In-line fuel filter | | | | | x | 7-48 |
| Wheels and tires | x | | | | | 7-50 |
| Drive chain tension check | x | | | | | 7-52 |
| **EVERY 500 HOURS** | | | | | | |
| Air cleaner elements | | | | | x | 7-53 |
| Engine oil and filter | | | | x | | 7-55 |
| Final drive chain tank oil | x | | | | | 7-57 |
| Primary fuel filter | | | | | x | 7-60 |
| Hydraulic oil filter | | | | | x | 7-61 |
| Final drive oil (track models) | | | | x | | 7-62 |
| Roll Over Protective Structure (ROPS) mechanism and hardware check | x | | | | | 7-63 |
| **EVERY 1000 HOURS** | | | | | | |
| Hydraulic fluid and filter | | | | | x | 7-64 |
| Final drive chain tank oil | | | | | x | 7-69 |
| Engine valve clearance | x | | | | | 7-72 |
| **EVERY 2000 HOURS** | | | | | | |
| Radiator drain and flush | | | | x | | 7-73 |
| **AS REQUIRED** | | | | | | |
| Hardware - loose or damaged | x | | | | | 7-75 |



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# 9 - SPECIFICATIONS

## Fluids and lubricants

### Fuel tank

| Capacity | |
|---|---|
| SR130, SR150 | **60.5 l (16.0 US gal)** |
| SR175, SV185, SR200, TR270 | **75.5 l (20.0 US gal)** |
| SR220, SR250, SV250, SV300, TR320, TV380 | **95.5 l (25.5 US gal)** |
| Specifications | #2 Diesel ultra low sulfur |

### Cooling system

| Capacity | |
|---|---|
| SR130 | **15 l (4.0 US gal)** |
| SR150, SR175, SV185 | **15.6 l (4.2 US gal)** |
| SR200, TR270 | **17 l (4.5 US gal)** |
| SR220, SV250, SR250, SV300, TR320, TV380 | **19 l (5 US gal)** |
| Specifications | **CASE AKCELA ACTIFULL™ OT EXTENDED LIFE COOLANT** |

### Hydraulic system

| Reservoir capacity | **15.0 l (3.96 US gal)** |
|---|---|
| System capacity: | |
| SR130, SR150 | **29.2 l (7.7 US gal)** |
| SR175, SV185, SR200, TR270 | **38.1 l (10.0 US gal)** |
| SR220, SR250, SV250, SV300, TR320, TV380 | **45.4 l (12.0 US gal)** |
| Specifications | **TUTELA AUTO SUPREME™ ENGINE OIL SAE 10W-30** |

***NOTE:*** *See the "Hydraulic oil viscosity" chart* ***7-14*** *for more specification details.*

### Chain compartments

| Capacity - each side | |
|---|---|
| SR130, SR150 | **6.25 l (6.6 US qt)** |
| SR175, SV185 | **7.4 l (7.9 US qt)** |
| SR200 | **26.0 l (27.5 US qt)** |
| SR220, SR250, SV250, SV300 | **22.2 l (23.5 US qt)** |
| Specifications | **TUTELA AUTO SUPREME™ ENGINE OIL SAE 10W-30** |

### Grease fittings

| Quantity | As required |
|---|---|
| Specifications | **TUTELA MOLY GREASE GR-75** (Molydisulfide) |

### Engine crank case oil

| Capacity - with filter change | |
|---|---|
| SR130, SR150, SR175, SV185 | **7.0 l (7.5 US qt)** |
| SR200, SR220, SR250, SV250, SV300, TR270, TR320, TV380 | **9.5 l (10 US qt)** |
| Specifications | **CASE AKCELA UNITEK NO. 1™ SBL CJ-4** |

***NOTE:*** *See the "Recommended engine oil for operating temperature ranges" chart* ***7-13*** *for more specification details.*



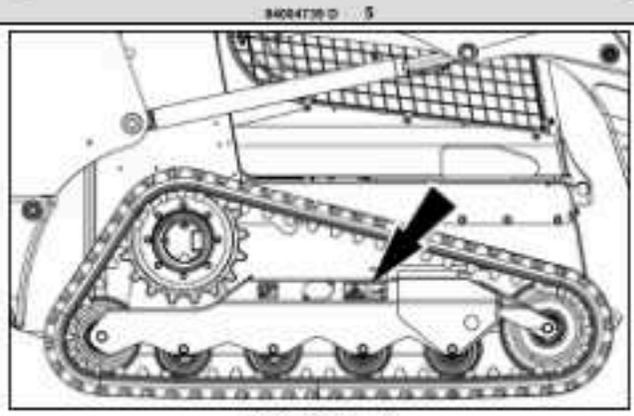
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**CAUTION**
**Flying debris. Stay clear. Failure to comply could result in minor or moderate injury.**

**Quantity: 2**
**Part number: 84004739**



Location:
On the track debris guard. One on each side of the machine.



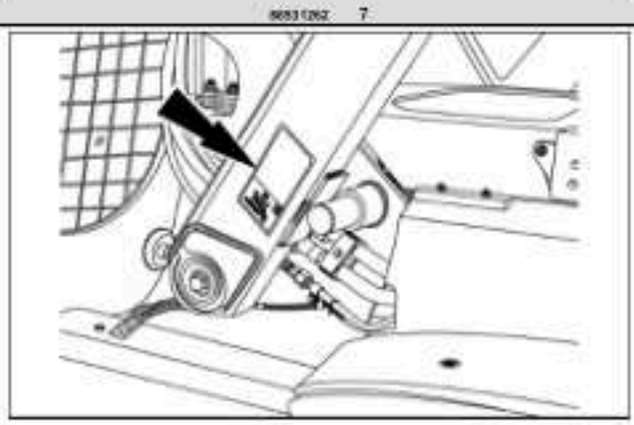
***NOTE:*** *Only applicable to Compact Track Loaders (CTL) models TR270, TR320, and TV380.*

**WARNING**
**Avoid pinch area. Keep clear of moving parts. Keep bystanders clear of the skid steer when operating unless the lift arm is down on the ground or the lift arm is resting on the lift arm lock and engine is off. Never extend any part of the body outside of the operators area. Failure to comply could result in death or serious injury.**

**Quantity: 1**
**Part number: 86531262**



Location:
On the left-hand side of the boom where it rests against the lift arm support pin.

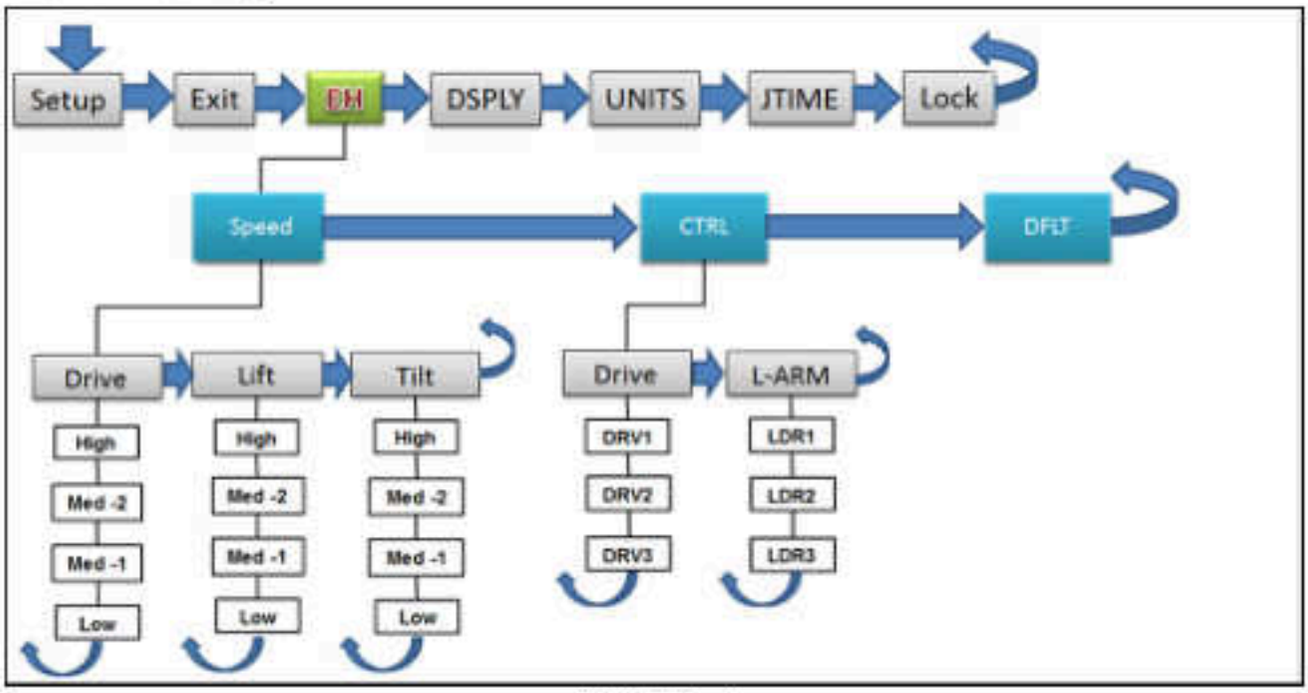


***NOTE:*** *Read and understand the "Loader arm lock and cab tilt procedure - vertical lift machines" page* **2-22** *in this manual. Only applicable to models SV185, SV250, SV300, and TV380.*



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## Custom EH settings




RAIL12SSLE75SGA 8

## Menu structure for Electro-Hydraulic ( EH) controls

**Menu structure for Electro Hydraulic ( EH) controls**

| | | | |
|---|---|---|---|
| Setup | Display setup menu. | Tilt | Attachment tilt function. |
| Exit | Exit the setup menu. | L-ARM | Loader arm. |
| EH | Customize the speed of the machine's EH controls. | High | Quick response to control lever movement. |
| DSPLY | Alternate method to select between the selected display parameters. | Med-2 | Medium/quick response to control lever movement. |
| UNITS | Allows the operator to select between Fahrenheit/Imperial units and Celsius/SI units. | Med-1 | Medium/slow response to control lever movement. |
| JTIME | Job Timer. Displays engine operating hours since last reset. | Low | Slow response to control lever movement. |
| Lock | Used to create/change owner and user codes. | DRV1 | Aggressive response to control lever movement. |
| Speed | Speed of the drive, lift, and tilt functions. | DRV2 | Medium response to control lever movement. |
| CTRL | Controls for drive and loader arm. | DRV3 | Smooth response to control lever movement. |
| DFLT | Factory default settings. | LDR1 | Aggressive response to control lever movement. |
| Drive | Travel forward and reverse function. | LDR2 | Medium response to control lever movement. |
| Lift | Loader arm up and down function. | LDR3 | Smooth response to control lever movement. |

**Default settings for models SR130 and SR150**

| SPEED | | | | |
|---|---|---|---|---|
| Tilt | Low | Med-1 | Med-2 | High |
| Lift | Low | Med-1 | Med-2 | High |
| Drive | Low | Med-1 | Med-2 | High |
| CTRL | | | | |
| Drive | DRV3 | DRV2 | DRV1 | |



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