# 327B Tier 3
# 330B Tier 3
# Articulated Trucks

## Operator's Manual

**Print No. 84301127**
English 01/10
*Replaces 84158221*
*From serial number ZCNAD30TPBP457003*

CASE CONSTRUCTION

MidWestTech | Case 327B, 330B Tier 3 Articulated Truck Operator's Manual | Publication 8... Order the manual at mid-west-tech.com >

# CONTENTS


| | Page |
|---|---|
| Chassis validity | II |
| **CONTENTS** | **V** |
| **OUTSIDE THE VEHICLE** | **XII** |
| Walk around | XII |
| Walk around | XIII |
| **VEHICLE DESCRIPTION** | **XIV** |
| **KEYS** | **XIV** |
| **MAIN ASSEMBLY SERIAL NUMBERS** | **XV** |
| **POSITION OF IDENTIFICATION DATA ON MAIN GROUPS** | **XVI** |
| **SECT. 1 – CONDITIONS OF USE** | **1-1** |
| **INTRODUCTION** | **1-3** |
| Copyright | 1-3 |
| **INFORMATION ON THIS HANDBOOK** | **1-4** |
| Definitions | 1-4 |
| Contents | 1-4 |
| Symbols | 1-4 |
| References | 1-5 |
| Purpose of this handbook | 1-6 |
| To whom this handbook is addressed | 1-6 |
| Safekeeping of this handbook | 1-6 |
| Updates to this handbook | 1-6 |
| Units of measure | 1-6 |
| **SCHEDULED USE** | **1-7** |
| **VEHICLE OPERATORS** | **1-7** |
| **WASTE DISPOSAL** | **1-8** |
| **SCRAPPING THE VEHICLE** | **1-8** |
| **WARRANTY AND LIABILITY OF THE MANUFACTURER** | **1-9** |
| Warranty conditions | 1-9 |
| Liability | 1-9 |
| **SERVICE** | **1-9** |
| After sales service | 1-9 |
| Spare parts | 1-9 |

| | Page |
|---|---|
| **SECT. 2 – SAFETY INSTRUCTIONS** | **2-1** |
| **UTILITY SAFETY** | **2-2** |
| **INTRODUCTION** | **2-3** |
| Safety information and symbols | 2-3 |
| General instructions | 2-4 |
| **PREVENTING FIRES** | **2-5** |
| **ROLLOVER ACCIDENTS** | **2-7** |
| Prevention | 2-7 |
| What to do if the vehicle rolls over | 2-7 |
| Structure of the cab | 2-8 |
| **INSTRUCTIONS FOR USE** | **2-9** |
| Cab | 2-9 |
| Starting and stopping | 2-10 |
| Driving the vehicle | 2-11 |
| Working the vehicle | 2-12 |
| Towing the vehicle | 2-14 |
| Replacing a wheel | 2-14 |
| **HAND SIGNALS** | **2-15** |
| Start the engine | 2-15 |
| Shut down the engine | 2-15 |
| Come to me | 2-15 |
| Move away from me | 2-15 |
| Go this far | 2-16 |
| Turn the vehicle to the left | 2-16 |
| Turn vehicle right | 2-16 |
| Stop | 2-16 |
| All stop and hold | 2-16 |
| Emergency stop | 2-16 |
| **MAINTENANCE** | **2-17** |
| General | 2-17 |
| Power supply disconnection | 2-18 |
| Safety locks | 2-21 |
| Preventing injuries | 2-23 |
| Preventing intoxication and contamination | 2-25 |
| Preventing burns and electrocution | 2-26 |
| **PLATES APPLIED TO THE VEHICLE** | **2-27** |
| **INSIDE ENGINE HOOD PLATE** | **2-33** |
| **INSIDE CAB PLATE** | **2-34** |




MidWestTech | Case 327B, 330B Tier 3 Articulated Truck Operator's Manual | Publication 8... Order the manual at mid-west-tech.com >

| | Page |
|---|---|
| **SECT. 3 – INSTRUCTIONS FOR USE** | **3-1** |
| **SAFETY WARNINGS FOR CORRECT VEHICLE USE** | **3-3** |
| **EXTERNAL CONTROLS** | **3-4** |
| External controls layout | 3-4 |
| Emergency battery disconnection switch | 3-5 |
| Off–vehicle warm–up control | 3-5 |
| Engine ignition and warm–up control from the ground | 3-5 |
| Emergency battery disconnection switch | 3-6 |
| Engine hood manual tipping control | 3-6 |
| Engine hood electrical tipping control | 3-6 |
| Driver's cab tipping control | 3-6 |
| **CAB – EXTERNAL** | **3-7** |
| Accessing the cab | 3-7 |
| Door | 3-7 |
| **CAB – INTERIOR** | **3-8** |
| Driver's seat | 3-9 |
| Folding seat | 3-9 |
| Seat belts | 3-10 |
| Steering wheel adjustment | 3-11 |
| Sun visor | 3-11 |
| Side windows | 3-11 |
| Ceiling light/map reading light | 3-12 |
| Sound system | 3-13 |
| CB transceiver installation (electrical power) | 3-13 |
| Closed circuit TV camera | 3-14 |
| **INTERIOR CONTROLS** | **3-16** |
| Interior control and utility arrangement | 3-16 |
| Instrument panel and warning lights | 3-18 |
| Warning lights panel A | 3-19 |
| Warning lights panel B | 3-19 |
| Warning lights panel C | 3-19 |
| Indication instruments in detail | 3-20 |
| Warning light indications in detail (A) | 3-21 |
| Warning light indications in detail (B) | 3-22 |
| Warning light indications in detail (C) | 3-23 |
| Position and headlights control | 3-24 |
| Headlight control | 3-24 |
| Direction indicator and horn control | 3-24 |
| Hazard light control | 3-25 |
| Rotating beacon control | 3-25 |
| Direction indicator and horn control | 3-25 |
| Front window wiper/washer control | 3-26 |
| Side window wiper control | 3-26 |
| Side window washer control | 3-26 |
| Manually adjustable rearview mirrors | 3-27 |
| Power driven rearview mirror control (if equipped) | 3-27 |
| Heated rearview mirror control | 3-27 |
| Battery disconnect switch | 3-27 |
| Engine ignition switch | 3-28 |
| Steering control | 3-28 |
| Accelerator control | 3-29 |
| Service brake control | 3-29 |
| Integrated auxiliary brake control | 3-29 |
| Parking brake | 3-30 |
| Automatic transmission | 3-31 |
| Longitudinal differential lock control | 3-32 |
| Body dump control | 3-32 |
| **MULTIFUNCTIONAL DISPLAY** | **3-33** |
| Multifunctional display controls | 3-33 |
| Activation of the multifunction display | 3-34 |
| Display brightness adjustment | 3-35 |
| Home page | 3-36 |
| Multifunction display operation | 3-43 |
| Operation of the emergency electric power supply disconnection push button | 3-46 |
| Centralized greasing | 3-48 |
| Errors stored in memory | 3-49 |
| Anomaly codes | 3-50 |
| Main menu | 3-51 |
| **A. VEHICLE MANAGEMENT** | **3-52** |
| **1. BODY CONTROL** | **3-53** |
| **2. TRANSMISS. WORK MODE** | **3-55** |
| **3. CALIBRATE TRANSMISS** | **3-56** |
| **4. VIDEO CAM CONTROL** | **3-57** |
| **5. CALIBRATE GREASING** | **3-58** |
| **CALIB. TIME GREASING** | **3-59** |
| **B. TRIP COMPUTER** | **3-60** |
| **1. DAILY RESET** | **3-61** |
| **2. 100 HOURS** | **3-62** |




MidWestTech | Case 327B, 330B Tier 3 Articulated Truck Operator's Manual | Publication 8... Order the manual at mid-west-tech.com >

| | Page |
|---|---|
| **3. TRIP 500 HOURS** | **3-62** |
| **4. TRIP OVERALL** | **3-62** |
| **5. RESET TRIP 100 HOURS** | **3-63** |
| **6. RESET TRIP 500 HOURS** | **3-63** |
| **C. ENGINE TEST** | **3-64** |
| **D. TRANSM. TEST** | **3-65** |
| **E. SET UP** | **3-66** |
| **1. DATE** | **3-67** |
| **2. TIME** | **3-69** |
| **3. MEASUREMENT UNITS** | **3-71** |
| **4. LANGUAGE** | **3-72** |
| **5. TIME FORMAT 12–24** | **3-73** |
| **6. ACOUSTIC ALARM** | **3-74** |
| **F. VEHICLE TEST** | **3-75** |
| **CLIMATE CONTROL SYSTEM** | **3-76** |
| Manual climate control | 3-76 |
| Climate control system air vents | 3-77 |
| General instructions | 3-77 |
| **REFUELLING** | **3-78** |
| **STARTING AND STOPPING THE ENGINE** | **3-79** |
| General electrical utilities | 3-79 |
| Starting the engine from the driver's cab | 3-80 |
| Warming the engine | 3-81 |
| Stopping the engine from the driver's cab | 3-81 |
| Emergency electrical power | 3-82 |
| Starting and stopping the engine from off the vehicle | 3-83 |
| Off–vehicle warm–up procedure | 3-84 |
| **STARTING OFF** | **3-85** |
| **STOPPING AND PARKING THE VEHICLE** | **3-86** |
| Slowing down and stopping | 3-86 |
| Standing | 3-86 |
| Parking | 3-86 |
| **DRIVING THE VEHICLE** | **3-87** |
| Precautions during the initial period of use | 3-87 |
| Normal running | 3-87 |
| Main operating rules | 3-91 |
| Automatic transmission | 3-92 |
| Integrated auxiliary brake | 3-95 |
| Differential lock | 3-96 |
| **EMERGENCY CONDITIONS** | **3-97** |
| Stopping in an emergency | 3-97 |
| Steering in an emergency | 3-97 |
| **BODY DUMPING** | **3-98** |
| Dumping with cab control | 3-98 |
| Standard dumping | 3-99 |
| After dumping | 3-99 |
| **REPLACING A COMPLETE WHEEL** | **3-100** |
| **RESCUING AND TOWING THE VEHICLE** | **3-102** |
| Rescue | 3-102 |
| Towing | 3-102 |
| Releasing parking brake callipers | 3-103 |
| **DRIVING THE VEHICLE ON THE ROAD** | **3-104** |
| **TRANSPORTING THE VEHICLE** | **3-104** |
| **SECT. 4 – MAINTENANCE** | **4-1** |
| **SAFETY WARNINGS FOR VEHICLE MAINTENANCE** | **4-3** |
| **INTRODUCTION** | **4-5** |
| **LOCATION OF THE MAIN ELEMENTS INVOLVED IN MAINTENANCE OPERATIONS – 1** | **4-6** |
| **LOCATION OF THE MAIN ELEMENTS INVOLVED IN MAINTENANCE OPERATIONS – 2** | **4-7** |
| **LOCATION OF THE MAIN ELEMENTS INVOLVED IN MAINTENANCE OPERATIONS – 3** | **4-8** |
| **LOCATION OF THE MAIN ELEMENTS INVOLVED IN MAINTENANCE OPERATIONS – 4** | **4-9** |
| **LOCATION OF THE MAIN ELEMENTS INVOLVED IN MAINTENANCE OPERATIONS – 5** | **4-10** |
| **PRELIMINARY OPERATIONS** | **4-11** |
| Preparing vehicle for maintenance | 4-11 |
| Electrical power cut–off | 4-11 |
| Articulation joint: rod–lock safety device | 4-14 |
| Dumped body safety lock | 4-15 |
| Engine hood manual tipping | 4-16 |
| Electro–hydraulic tipping engine hood | 4-17 |




MidWestTech | Case 327B, 330B Tier 3 Articulated Truck Operator's Manual | Publication 8... Order the manual at mid-west-tech.com >