# Illustrated Parts Manual

## Models
## CM25RT
## CM33RT
## CM40RT

**3120813**

*November 15, 1991*

CE

ISO9001 REGISTERED COMPANY

UKAS QUALITY MANAGEMENT 015

An Oshkosh Truck Corporation Company

MidWestTech | JLG CM25RT, CM33RT, CM40RT Scissor Lift Parts Manual | Publication 3120813

Order the manual at mid-west-tech.com >

# TABLE OF CONTENTS


| SUBJECT | PAGE NO. |
|---|---|
| SECTION 1 — RECOMMENDED SERVICE PARTS STOCK | 1-1 |
| SECTION 2 — ILLUSTRATED PARTS LIST | 2-1 |

| FIG. NO. | TITLE | PAGE NO. |
|---|---|---|
| 2-1 | Frame and Sizzor Arms Assembly and Installations (CM40RT/CM33RT) | 2-2 |
| 2-2 | Frame and Sizzor Arms Assembly and Installations (CM25RT) | 2-6 |
| 2-3 | Lift Cylinder Assembly | 2-10 |
| 2-4 | Sizzor Arm Guards Installation | 2-12 |
| 2-5 | Platform and Handrail Installation | 2-14 |
| 2-6 | Platform Extension Installation | 2-18 |
| 2-7 | Traversing Platform Installations | 2-22 |
| 2-8 | Extension Cylinder Assembly (Traversing Platform) | 2-25 |
| 2-9 | Valve Assembly - FPS (Traversing Platform) | 2-26 |
| 2-10 | Platform Control Box Installation | 2-28 |
| 2-11 | Ground Control Box Installations | 2-32 |
| 2-12 | Manual Descent/Emergency Lowering Installation | 2-36 |
| 2-13 | Control Valves and Alarms Installation | 2-38 |
| 2-14 | Valve Assembly - Racine 2 Stack | 2-42 |
| 2-15 | Valve Assembly - Racine 2 Stack | 2-44 |
| 2-16 | Valve Assembly - Modular Controls | 2-45 |
| 2-17 | Valve Assembly - Racine 3 Stack (4WD Only) | 2-47 |
| 2-18 | Valve Assembly - FPS 4 Stack (Level Jacks Option Only) | 2-48 |
| 2-19 | Ford Engine Installation - VSG-411 | 2-50 |
| 2-20 | Dual Fuel Installation (Ford) | 2-56 |
| 2-21 | Generator Installation - 110V (Ford) | 2-58 |
| 2-22 | Deutz Engine Installation - F2L-1011 | 2-60 |
| 2-23 | Generator Installation - 110V (Deutz) | 2-64 |
| 2-24 | Electric Powered Machine Components Installation | 2-66 |
| 2-25 | Tanks Installation | 2-70 |
| 2-26 | Hoods and Ladders Installation | 2-72 |
| 2-27 | Limit Switches Installation | 2-76 |
| 2-28 | Hydraulic Leveling Jack Components Installation | 2-80 |
| 2-29 | Jack Cylinder Assembly | 2-82 |
| 2-30 | Axle and Steering Assemblies and Installation | 2-84 |
| 2-31 | Steer Cylinder Assembly | 2-88 |
| 2-32 | Lockout Cylinder Assembly | 2-90 |
| 2-33 | Wheel Drive Installations | 2-92 |
| 2-34 | Drive Motor Assembly (2WD and 4WD Rear) | 2-94 |
| 2-35 | Drive Motor Assembly (4WD Front) | 2-97 |
| 2-36 | Brake Assemblies - Ausco and Mico | 2-98 |
| 2-37 | Drive Hub Assembly (2WD and 4WD Rear) | 2-102 |
| 2-38 | Drive Hub/Brake Assembly (4WD Front) | 2-106 |
| 2-39 | Tow Package Installation | 2-108 |
| 2-40 | Nameplates and Decals Installation | 2-110 |
| 2-41 | Hydraulic Diagram - Axle (Oscillating) | 2-114 |
| 2-42 | Hydraulic Diagram - Leveling Jacks | 2-116 |
| 2-43 | Hydraulic Diagram - Manual Lowering | 2-118 |
| 2-44 | Hydraulic Diagram - Overload/Tilt Interlock (French Spec) | 2-119 |
| 2-45 | Hydraulic Diagram - Standard (2WD) | 2-120 |
| 2-46 | Hydraulic Diagram - Standard (4WD) | 2-124 |
| 2-47 | Hydraulic Diagram - Tow | 2-129 |
| 2-48 | Hydraulic Diagram - Traversing Platform (Without Leveling Jacks) | 2-130 |
| 2-49 | Hydraulic Diagram - Traversing Platform (With Leveling Jacks) | 2-131 |




MidWestTech | JLG CM25RT, CM33RT, CM40RT Scissor Lift Parts Manual | Publication 3... Order the manual at mid-west-tech.com >

## TABLE OF CONTENTS


| FIG. NO. | TITLE (CONTINUED) | PAGE NO. |
|---|---|---|
| 2-50 | Electrical Diagram - Dual Fuel (Ford) | 2-132 |
| 2-51 | Electrical Diagram - Generator (Ford) | 2-132 |
| 2-52 | Electrical Diagram - Generator (Deutz) | 2-133 |
| 2-53 | Electrical Diagram - Leveling Jacks | 2-134 |
| 2-54 | Electrical Diagram - Overload/Tilt Interlock | 2-135 |
| 2-55 | Electrical Diagram - Platform (2WD Gas and Diesel) | 2-136 |
| 2-56 | Electrical Diagram - Platform (4WD) | 2-137 |
| 2-57 | Electrical Diagram - Platform (Electric) | 2-139 |
| 2-58 | Electrical Diagram - Standard (Ford 2WD) | 2-140 |
| 2-59 | Electrical Diagram - Standard (Ford 4WD) | 2-142 |
| 2-60 | Electrical Diagram - Standard (Deutz 2WD) | 2-144 |
| 2-61 | Electrical Diagram - Standard (Deutz 4WD) | 2-146 |
| 2-62 | Electrical Diagram - Standard (Electric) | 2-148 |
| 2-63 | Electrical Diagram - Traversing Platform | 2-150 |
| 2-64 | Wiring Diagram Chart | 2-151 |




MidWestTech | JLG CM25RT, CM33RT, CM40RT Scissor Lift Parts Manual | Publication 3... Order the manual at mid-west-tech.com >

## EURO SPEC MODELS CM25/33/40RT

The following list will service each Euro Spec Model CM25RT, CM33RT or CM40RT Sizzors Lifts with the Current commonly used parts. For further information, contact the JLG Industries Parts Department at Area Code 717-485-5161.

**Note: The following Parts are Integral of Section 2 — Illustrated Parts List.**

| DESCRIPTION | JLG PART NO. | QTY |
|---|---|---|
| **STANDARD PARTS** | | |
| Bushing, Super Oilite (Figure 2-1, 2-5 and 2-7) | 0961409 | 72 |
| Pad Sliding (Figure 2-1, 2-2) | 3340579 | 4 |
| Bushing, Bronze (Lift Cylinder Barrel) (Figure 2-3) | 0961379 | 2 |
| Bushing, Bronze (Lift Cylinder Rod) (Figure 2-3) | 0961380 | 2 |
| Controller, Drive (Figure 2-10) | 1600115 | 1 |
| Switch, Toggle - SPST (2WD/4WD Select, Pump Volume, Drive Speed, Engine Speed, Ignition/Emergency Stop) (Figures 2-10 and 2-11) | 4360199 3 | |
| Switch, Push Button - SPST/MC (Start and Horn) (Figures 2-10 and 2-11) | 4360274 | 1 |
| Lamp, Indicator (Engine Distress and Tilt) (Figure 2-10) | 2920026 | 1 |
| Switch, Toggle - DPDT/MC/C.O. (Lift) (Figure 2-10) | 4360260 | 1 |
| Relay (Figure 2-10, 2-11, 2-24 and 2-64) | 3740049 | 17 |
| Switch, Push-Pull (Emergency Stop) (Figure 2-10) | 4360289 | 1 |
| Alarm, Sonalert (Figure 2-10) | 0140019 | 1 |
| Switch, Key (Select) (Figure 2-11) | 4360284 | 1 |
| Switch, Block (Figure 2-11) | 4360267 | 1 |
| Switch, Block (Figure 2-11) | 4360281 | 2 |
| Switch, Toggle - SPDT/MC/C.O. (Lift) (Figure 2-11) | 4360198 | 1 |
| Breaker, Circuit - 15 Amp (Figure 2-11 and 2-64) | 4360232 | 2 |
| Cable, Manual Descent/Emergency Lowering (Figure 2-12) | 1060377 | 1 |
| Element, Hydraulic Filter (Figure 2-13) | 2120110 | 4 |
| Cartridge - 4640533 Valve (Figure 2-13) | 7010529 | 1 |
| Cartridge - 4640529 Valve (Figure 2-13) | 7004292 | 1 |
| Cartridge - 4640632 Valve (Figure 2-13) | 4640523 | 1 |
| Switch, Tilt Indicator (Figure 2-13 and 2-64) | 4360280 | 1 |
| Seal Kit - 4640597 Valve Working Section (Figure 2-13) | 7000414 | 2 |
| Seal Kit - 4640597 Valve Inlet Section (Figure 2-13) | 7000413 | 1 |
| Cartridge - 4640597 Valve Inlet Relief (Figure 2-13) | 7000447 | 1 |
| Coil - 4640597 and 4640399 Valve (Figure 2-13) | 7000418 | 4 |
| Cartridge - 4640598 Valve (Pressure Sensing) (Figure 2-16) | 7010511 | 1 |
| Cartridge - 4640598 Valve (Relief) (Figure 2-16) | 7010512 | 1 |
| Cartridge - 4640598 Valve (Modulating Orifice) (Figure 2-16) | 7010513 | 1 |
| Cartridge - 4640598 Valve (Electric/Hydraulic Relief) (Figure 2-16) | 7010514 | 1 |
| Coil - 4640598 Valve (Electric/Hydraulic Relief) (Figure 2-16) | 7009742 | 1 |
| Coil - 4640385 Valve (Figure 2-17) | 7000417 | 2 |
| Seal Kit - 3600145 Pump Shaft (Figure 2-19, 2-22 and 2-24) | 2900660 | 1 |
| Breather, Hydraulic (Figure 2-25) | 1340021 | 1 |
| Switch, Limit (Figure 2-27) | 4360300 | 1 |
| Seal Kit - Steer Cylinder (Figure 2-31) | 2901119 | 1 |
| Seal Kit - Drive Motor (Figure 2-34) | 2900449 | 2 |
| Bearing Kit - Drive Hub (Figure 2-37) | 7010429 | 2 |
| Diode - 6 Amp (Figure 2-64) | 3990010 | 6 |



MidWestTech | JLG CM25RT, CM33RT, CM40RT Scissor Lift Parts Manual | Publication 3... Order the manual at mid-west-tech.com >