# 9020 Excavator

# Parts Catalog

**Bur 8-8941**

CASE CONSTRUCTION



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

# GENERAL INFORMATION

## Indexes

Section 1 of this catalog contains a SN and P.I.N. location guide, alphabetical index, pictorial index of the sections included, and pictorial index(es) for quick location of hoses and tubes (and other system components in some catalogs). An alphabetical index also appears at the beginning of each section. Section 10 is the Numerical Index which lists all part numbers in alpha/numeric order with their page location and reference number.

## Illustrations

The arrangement of this parts catalog is for easy identification of parts. All parts are illustrated in "exploded views" in proper relation to each other. Reference numbers used in the illustrations refer to those on the text pages. The text pages list reference number, part number, part description and the quantity required.

## Abbreviations

P.I.N. "Product Identification Number"

SN "Serial Number"

NSS "Not Serviced Separately" in the part number column indicates this part is not available for service.

REF "Reference" in the part number column indicates this part has special service information. The page where this information can be found is given in the part description column.

UAR "Use As Required" in the quantity required column indicates the number of parts used is determined by service needs.

## Right-Hand and Left-Hand Identification

The reference to right-hand and left-hand in this catalog is identified by the operator standing at the rear of the basic unit (without rear attachment), looking toward the front of the machine (in normal forward travel). For pages covering any machine attachments, right-hand and left-hand are defined by the operator sitting in the position for proper operation of the attachment.

## Catalog Revisions and Supplements

Changes to the product may make it necessary to revise or add pages to this catalog. A cover sheet will list all pages released in a revision or supplement. Each new or revised page will have a new issue date. All revised and new pages must be put into the parts catalog as soon as they are received.

## Parts Orders

Orders must specify product model, all necessary serial numbers, correct part number, complete description, quantity required, method of shipment, and shipping address.

## Text Format Explanation

An assembly may contain service items. The component parts of an assembly or subassembly are indented. The quantity required column lists the number of assemblies required for a completed machine, and the number of components required in a complete assembly or subassembly.

The example below illustrates the use of indents and other text page elements explained on this page.

# HYDRAULIC FILTER

| REF. | PART NO. | DESCRIPTION | REQ'D. |
|---|---|---|---|
| 1 | D4356734 | FILTER ASSEMBLY - hydraulic oil, P.I.N. 7534840 and after | 1 |
| | D61903 | HEAD ASSEMBLY - filter | 1 |
| 2 | NSS | HEAD - filter, order D61903 head assembly | 1 |
| 3 | D58199 | VALVE - bypass | 1 |
| | D43800 | KIT - filter element, replaces D35700 element kit | 1 |
| 4 | NSS | ELEMENT - filter, order D43800 element kit | 1 |
| 5 | A27994 | O-RING - filter | 1 |
| 6 | D61948 | HOUSING -filter | 1 |
| 7 | REF | CANOPY - ROPS, order from Machinery Price List | 1 |
| 8 | 843065C1 | HOSE - 132 inch (3353 mm) long, reservoir to pump | 1 |
| 9 | 113-323 | BOLT - hex, 7/16 NC x 1-3/4 inch | 2 |
| 10 | 814-8030 | BOLT - hex, 8 - 1.25 x 30 mm | 4 |

MidWestTech | Case 9020 Excavator Parts Catalog | Publication 8-8941 Order the manual at mid-west-tech.com >

# ALPHABETICAL INDEX


A

Adjuster - track ..... 5-9
Air Cleaner System ..... 2-7
Air Restriction Indicator Switch ..... 2-7
Alarm - travel ..... 4-9
Alternator - electrical ..... 4-3
Alternator Mounting ..... 2-27
Antenna - radio ..... 9-49
Arm
  Control Circuit ..... 8-31
  Cylinder ..... 8-97
  Cylinder Lines ..... 8-91
  Supply Lines ..... 8-87
Arm and Linkage - 8ft.10 in. ..... 9-49
Arm and Linkage - 10ft. 4in. ..... 9-51
Auxiliary Control Valve ..... 8-101
Auxiliary Hydraulic Equipment Controls ..... 6-19

B

Batteries and Mounting ..... 4-11
Battery Cables ..... 4-9
Battery Relay ..... 4-7
Belt - alternator and fan ..... 2-13
Belt - seat ..... 9-29
Block Heater ..... 2-35
Boom
  Control Circuit ..... 8-29
  Cylinder ..... 8-95
  Cylinder Lines ..... 8-83, 8-85
  Holding Valve ..... 8-85
Boom Control Circuit ..... 8-29
Boom Cylinder Lines ..... 8-83, 8-85
Boom Holding Valve ..... 8-85
Boom Lubrication Lines ..... 9-51
Boom, Mounting Pins and Cylinders ..... 9-47
Box - fuse ..... 4-15
Brake Release Valve - Swing ..... 8-57
Bucket
  Control Lines ..... 8-31
  Cylinder ..... 8-99
  Cylinder Lines ..... 8-93
  Supply Lines ..... 8-89
Buckets ..... 9-53 - 9-59
Bucket Teeth ..... 9-61, 9-63
Bypass Oil Filter and Lines ..... 8-17,8-19

C

Cab
  Door ..... 9-45
  Door Release & Overhead Cylinders ..... 9-43
  Fan and Mounting ..... 9-33
  Floor and Mounting ..... 9-35
  Rear and R-H Side Glass & R. V. Mirror ..... 9-39

C

Cab, Continued
  Vandal Guards ..... 9-37
  Windshield, Lower Front Window and Overhead Door ..... 9-41
Cab Harness, Dome Lamp and Speaker ..... 4-21
Cables - battery ..... 4-9
Camshaft ..... 2-31
Carrier Roller - track ..... 5-11
Central Fabricators Buckets ..... 9-53,9-55
Chain - track ..... 5-5
Cluster - instrument ..... 4-13
Cold Weather Start System - ether ..... 4-29
Combined Flow Signal Lines ..... 8-47
Component Supply Lines ..... 8-39
Connecting Rods ..... 2-43
Control Component Mounting and Hose Supports ..... 8-27, 8-35, 8-37
Controller - electrical system ..... 4-15
Controller - electrical system ..... 4-17
Controller - motor driver ..... 4-17
Control Lines
  Arm ..... 8-31
  Boom ..... 8-29
  Bucket ..... 8-29
  Swing ..... 8-31
  Two-Speed Travel ..... 8-47
Control Valve
  Auxiliary Control ..... 8-101
  Control Shutoff ..... 8-51
  Left-Hand Valve Bank ..... 8-75, 8-77
  Main Control ..... 8-71 - 8-81
  Manually Operated ..... 8-33, 8-59
  Miscellaneous Valves and Components ..... 8-77
  Mounting ..... 8-71
  Relief Valve ..... 8-81
  Right-Hand Valve Bank ..... 8-79
  Spools and Related Parts ..... 8-75, 8-79
  Supply Lines ..... 8-9
  Valve Bank Subassemblies ..... 8-73
Coolant Recovery Reservoir ..... 2-5
Cooler - engine oil ..... 2-23
Cooler - hydraulic oil ..... 2-11
Cooling System Supply and Return Lines ..... 8-15
Cooling Systems
  Engine Oil ..... 2-29
  Hydraulic Oil ..... 2-11
  Return Line ..... 8-15
  Supply Line ..... 8-15
Counterweight ..... 9-9
Coupling - hydraulic pump to engine ..... 8-5
Covers - access ..... 5-3


Bur 8-8941 Issued May, 1995 Printed in U.S.A.

MidWestTech | Case 9020 Excavator Parts Catalog | Publication 8-8941 Order the manual at mid-west-tech.com >

# ALPHABETICAL INDEX


C

Crankshaft ..... 2-39
Cushion On/Off Solenoid Valve ..... 8-55
Cushion Valve ..... 8-103
Cylinder Block ..... 2-33, 2-35
Cylinder Head and Valve Mechanism ..... 2-29
Cylinder Head Cover ..... 2-27
Cylinders - hydraulic
  Arm ..... 8-97
  Boom ..... 8-95
  Bucket ..... 8-99
Cylinder Lines
  Arm ..... 8-91
  Boom ..... 8-83
  Bucket ..... 8-93

D

Decals
  Model Identification and Striping ..... 9-71
  Operators Compartment ..... 9-69
  Warning and Danger ..... 9-67
Dipstick ..... 2-35
Distribution Lines ..... 8-39
Dome Lamp ..... 4-21
Door - cab ..... 9-45
Drain Lines ..... 8-11

E

Electrical Components
  Alternator ..... 4-3
  Battery ..... 4-11
  Cold Start System ..... 4-29
  Dome Lamp - cab ..... 9-49
  Instrument Cluster ..... 4-13
  Starter ..... 4-5
  Travel Alarm ..... 4-7
Engine Components
  Block Heater ..... 2-35
  Camshaft ..... 2-31
  Crankshaft ..... 2-39
  Cylinder Block/Block Heater ..... 2-33,2-35
  Cylinder Head Cover ..... 2-27
  Flywheel and Housing ..... 2-41
  Gasket Kits ..... 2-45
  Gear Cover - front ..... 2-15
  Heater - engine oil ..... 2-25
  Manifold - exhaust ..... 2-17
  Oil Cooler - engine oil ..... 2-23
  Oil Cooler - hydraulic oil ..... 2-11
  Oil Filter ..... 2-23
  Oil Heater ..... 2-25
  Oil Pan ..... 2-25
  Oil Pump ..... 2-25

E

Engine Components, Continued
  Pistons/Connecting Rods ..... 2-43
  Thermostat Housing and Alt. Mounting ..... 2-27
  Turbocharger ..... 2-19,2-21
  Valve Mechanism ..... 2-29
  Water Pump System ..... 2-13
Engine Mounting ..... 2-3
Engine Oil Heater ..... 2-31
Equipment Pump - hydraulic oil
  Assembly ..... 8-17 - 8-25
  Mounting ..... 8-5
Esco Bucket Parts ..... 9-63
Exhaust Manifold and Intake Aftercooler ..... 2-17
Exhaust System and Muffler ..... 2-9

F

Fan Belt ..... 2-13
Fans
  Alternator ..... 2-27,4-3
  Cab ..... 2-3,9-33
  Engine Cooling ..... 2-3
Filler - engine oil ..... 2-37
Filters
  Air ..... 2-7
  Engine Oil ..... 2-23
  Fuel, in line ..... 3-5
  Fuel, in tank ..... 3-3
  Fuel, primary ..... 3-11
  Fuel, secondary ..... 3-11
  Hydraulic Oil ..... 8-11, 8-39
Final Drive Transmission ..... 6-3,6-5
Flywheel and Housing ..... 2-41
Frame - track ..... 5-3
Free Swing Circuit ..... 8-43, 8-61
Free Swing Solenoid Valve ..... 8-53
Front Gear Cover ..... 2-15
Fuel Filter ..... 3-11
Fuel Injection Nozzle ..... 3-15
Fuel Injection Pump and Drive ..... 3-13
Fuel Injection System ..... 3-9
Fuel Level Sensor ..... 3-3
Fuel Lift Pump ..... 3-11
Fuel Lines ..... 3-5
Fuel Tank ..... 3-3
Fuel Tubes ..... 3-5,3-11
Function Signal Lines ..... 8-47
Fuse Box ..... 4-15
Fuses - electrical ..... 4-15

G

Gasket Kits - engine ..... 2-45
Gauges - instrument panel cluster ..... 4-13




MidWestTech | Case 9020 Excavator Parts Catalog | Publication 8-8941 Order the manual at mid-west-tech.com >

# NUMERICAL INDEX


| PART NO. | PAGE | REF. |
|---|---|---|
| 153107A1 | 8-103 | 7 |
| 153108A1 | 8-103 | 1 |
| 153109A1 | 8-103 | 14 |
| 153114A1 | 8-103 | 11 |
| 153120A1 | 8-103 | 8 |
| 153168A1 | 8-35 | 4 |
| 153181A1 | 6-11 | 42 |
| 153190A1 | 8-3 | 1 |
| 153191A1 | 8-3 | 2 |
| 153229A1 | 8-47 | 54 |
| 153231A1 | 8-35 | 6 |
| 153233A1 | 8-35 | 5 |
| 153243A1 | 8-11 | 26 |
| 153269A1 | 8-15 | 26 |
| 153311A1 | 6-11 | 39 |
| 153319A1 | 8-29 | 11 |
| 153319A1 | 8-31 | 12 |
| 153345A1 | 8-11 | 9 |
| 153346A1 | 8-11 | 1 |
| 153360A1 | 9-11 | 26 |
| 153360A1 | 9-27 | 44 |
| 153360A1 | 9-27 | 46 |
| 153360A1 | 9-33 | 7 |
| 153365A1 | 8-39 | 21 |
| 153365A1 | 8-49 | 23 |
| 153374A1 | 8-43 | 18 |
| 153374A1 | 8-43 | 30 |
| 153378A1 | 8-49 | 26 |
| 153408A1 | 8-49 | 11 |
| 153412A1 | 8-43 | 1 |
| 153451A1 | 8-3 | 7 |
| 153456A1 | 8-11 | 16 |
| 153458A1 | 8-9 | 11 |
| 153470A1 | 4-7 | 27 |
| 153470A1 | 8-53 | |
| 153470A1 | 8-61 | 23 |
| 153480A1 | 8-61 | 32 |
| 153481A1 | 8-15 | 8 |
| 153493A1 | 2-3 | 24 |
| 153493A1 | 2-29 | 35 |
| 153494A1 | 8-49 | 35 |
| 153495A1 | 8-29 | 5 |
| 153495A1 | 8-39 | 4 |
| 153495A1 | 8-39 | 20 |
| 153495A1 | 8-49 | 14 |
| 153514A1 | 9-35 | 8 |
| 153526A1 | 8-29 | 8 |
| 153526A1 | 8-31 | 8 |
| 153533A1 | 8-31 | 7 |
| 153563A1 | 8-39 | 22 |
| 153588A1 | 8-11 | 10 |
| 153589A1 | 8-11 | 29 |
| 153596A1 | 8-37 | 44 |
| 153596A1 | 8-39 | 17 |
| 153596A1 | 8-39 | 19 |
| 153596A1 | 8-39 | 30 |
| 153596A1 | 8-41 | 36 |
| 153596A1 | 8-41 | 38 |
| 153596A1 | 8-41 | 42 |
| 153596A1 | 8-45 | 40 |
| 153596A1 | 8-47 | 53 |
| 153596A1 | 8-47 | 60 |
| 153596A1 | 8-47 | 63 |
| 153596A1 | 8-47 | 65 |
| 153596A1 | 8-47 | 68 |
| 153596A1 | 8-47 | 70 |
| 153596A1 | 8-47 | 73 |
| 153596A1 | 8-47 | 76 |
| 153596A1 | 8-47 | 77 |
| 153596A1 | 8-49 | 4 |
| 153596A1 | 8-49 | 10 |
| 153596A1 | 8-49 | 18 |
| 153596A1 | 8-49 | 32 |
| 153596A1 | 8-61 | 29 |
| 153596A1 | 8-61 | 33 |
| 153596A1 | 8-61 | 38 |
| 153597A1 | 8-31 | 5 |
| 153597A1 | 8-39 | 16 |
| 153597A1 | 8-39 | 24 |
| 153597A1 | 8-39 | 26 |
| 153597A1 | 8-49 | 12 |
| 153598A1 | 8-49 | 24 |
| 153599A1 | 8-39 | 32 |
| 153599A1 | 8-43 | 3 |
| 153599A1 | 8-43 | 27 |
| 153599A1 | 8-47 | 65 |
| 153599A1 | 8-47 | 70 |
| 153599A1 | 8-49 | 34 |
| 153601A1 | 8-37 | 43 |
| 153601A1 | 8-43 | 21 |
| 153603A1 | 8-43 | 15 |
| 153603A1 | 8-45 | 37 |
| 153603A1 | 8-45 | 39 |
| 153603A1 | 8-47 | 63 |
| 153603A1 | 8-47 | 80 |
| 153603A1 | 8-49 | 28 |
| 153603A1 | 8-61 | 31 |
| 153603A1 | 8-61 | 35 |
| 153603A1 | 8-61 | 36 |
| 153604A1 | 9-17 | 9 |
| 153608A1 | 9-65 | 11 |
| 153611A1 | 8-3 | 10 |
| 153612A1 | 9-65 | 12 |
| 153613A1 | 9-65 | 12 |
| 153617A1 | 9-65 | 8 |
| 153619A1 | 9-65 | 9 |
| 153623A1 | 8-95 | 22 |
| 153624A1 | 4-21 | 2 |
| 153628A1 | 8-9 | 10 |
| 153630A1 | 5-9 | 17 |
| 153630A1 | 8-85 | 33 |
| 153630A1 | 8-99 | 37 |
| 153630A1 | 9-3 | 29 |
| 153630A1 | 9-47 | 8 |
| 153630A1 | 9-47 | 23 |
| 153630A1 | 9-49 | 15 |
| 153630A1 | 9-49 | 31 |
| 153630A1 | 9-51 | 15 |
| 153630A1 | 9-51 | 31 |
| 153631A1 | 9-47 | 9 |
| 153631A1 | 9-49 | 8 |
| 153631A1 | 9-49 | 33 |
| 153631A1 | 9-51 | 8 |
| 153631A1 | 9-51 | 33 |
| 153644A1 | 8-93 | 13 |
| 153644A1 | 8-93 | 22 |
| 153693A1 | 9-51 | 46 |
| 153695A1 | 9-51 | 50 |
| 153696A1 | 9-51 | 40 |
| 153729A1 | 9-51 | 49 |
| 153748A1 | 9-49 | 27 |
| 153748A1 | 9-51 | 27 |
| 153749A1 | 9-49 | 29 |
| 153749A1 | 9-51 | 29 |
| 153857A1 | 8-101 | 2 |
| 153857A1 | 8-101 | 9 |
| 153867A1 | 8-69 | 30 |
| 153877A1 | 8-101 | 7 |
| 153878A1 | 8-101 | 8 |
| 153880A1 | 8-101 | 23 |
| 153881A1 | 8-101 | 25 |
| 153882A1 | 8-77 | 1 |
| 153882A1 | 8-79 | 26 |
| 153910A1 | 8-95 | 23 |
| 153912A1 | 8-97 | 38 |
| 153914A1 | 8-101 | 12 |
| 153915A1 | 8-75 | 13 |
| 153915A1 | 8-79 | 2 |
| 153919A1 | 6-7 | 28 |
| 153922A1 | 8-69 | 34 |
| 153925A1 | 8-65 | 2 |
| 153928A1 | 9-69 | 12 |
| 153964A1 | 8-17 | 2 |
| 153967A1 | 8-23 | 43 |
| 153967A1 | 8-25 | 19 |
| 153979A1 | 8-23 | 35 |
| 153979A1 | 8-25 | 11 |
| 153987A1 | 8-17 | 16 |
| 154074A1 | 8-35 | 5B |
| 154250A1 | 6-7 | 9 |
| 154268A1 | 6-7 | 5 |
| 154447A1 | 8-21 | 29 |
| 154454A1 | 8-103 | 5 |
| 154455A1 | 6-5 | 4 |
| 154455A1 | 6-9 | 31 |
| 154455A1 | 8-19 | 5 |
| 154455A1 | 8-19 | 15 |
| 154455A1 | 8-21 | 8 |
| 154455A1 | 8-25 | 21 |
| 154455A1 | 8-85 | 17 |
| 154459A1 | 6-9 | 24 |
| 154459A1 | 8-19 | 30 |
| 154459A1 | 8-19 | 37 |
| 154459A1 | 8-21 | 25 |
| 154459A1 | 8-25 | 6 |
| 154463A1 | 8-55 | 4 |
| 154463A1 | 8-81 | 6 |
| 154467A1 | 6-15 | 10 |
| 154467A1 | 8-19 | 2 |
| 154467A1 | 8-29 | 2 |
| 154467A1 | 8-31 | 2 |
| 154467A1 | 8-39 | 28 |
| 154467A1 | 8-39 | 35 |
| 154467A1 | 8-41 | 45 |
| 154467A1 | 8-41 | 47 |
| 154467A1 | 8-41 | 50 |
| 154467A1 | 8-43 | 2 |
| 154467A1 | 8-43 | 6 |
| 154467A1 | 8-43 | 8 |




MidWestTech | Case 9020 Excavator Parts Catalog | Publication 8-8941 Order the manual at mid-west-tech.com >