W20
Articulated Loader

Operators Manual

9-2795

Reprinted

CASE
CONSTRUCTION

MidWestTech | Case W20 Articulated Loader Operator's Manual | Publication 9-2795

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

TABLE OF CONTENTS

To the Owner 1
Safety Precautions 2
Introduction 4
Serial Number Location 5
Specifications 7
Operating Instructions 13
Indicators and Controls 13
Operator's Compartment 13
Range Selector Lever 13
Air Horn Button 14
Left and Right Brake Pedals . . . 14
Foot Throttle 14
Bucket and Lift Arm Controls . . 14
Voltmeter 15
Engine Oil Pressure Gauge . . . 15
Coolant Temp. Gauge 15
Fuel Gauge 15
Key Switch 15
Lights 16
Manifold Preheater 16
Ether Injection 16
Torque Converter Oil Temp. Gauge 17
Clutch Pressure Gauge 17
Air Reservoir Press. Gauge . . . 17
Pump Inlet Oil Press. Gauge . . . 18
Parking Brake Control 18
Fuel Shutoff Control 18
Tachometer 19
Electric Hourmeter 19
Air Cleaner Restric. Indicator. . 19
Turn Signal Lever 20
Safety Flasher Lever 20
Operator's Seat 21
Height Control 21
Tilt Control 21
Horizontal Adjustment 22
Seat Belt 22
Loader Controls 22
Return-To-Dig 24
Bucket Height Control 24
Engine Operation 25
Run-In 25
Starting 25
Idling 26
Stopping 26
Starting Aids 27
Machine Operation 29
Driving 29
Cold Weather Operations 31
Hot Weather Operations 32
Loader Operations 32
Job Layout 33
Filling the Bucket 33
Transporting 35
Dumping the Bucket 35
Truck Loading 36
Return-To-Dig Operations . . . 36
Fuels and Lubricants 39
Diesel Fuel 39
Fuel Specifications 39
Fuel Storage 41
Lubricants 41
Maintenance 43
Safety Link 43
Maintenance Schedule 44
Fuels, Fluids and Lubricants Chart . 46
Lubrication Points 47
Engine Lubrication System 50
Oil Level 50
Oil Change 50
Oil Filter 51
Air Cleaning System 52
Restriction Indicator 54
Safety Filter 54
Air Cleaner Servicing 55
Cooling System 56
Radiator Cap 57
Coolant 57
Thermostats 59
Cleaning the System 60
Drive Belts 61
Fuel System 63
Cleaning the System 65
Bleeding the System 67
Servicing Fuel Filters 68
Electrical System 70
Lights 70
Starter Motor 71
Alternator 72
Battery Care 73
Specific Gravity Table 74
Wiring Diagrams 76
Booster Battery 80
Hydraulic System 80
Oil Level 80
Oil and Filter Change 81
Braking System 83
Air Compressor 83
Air Reservoir 83
Master Cylinders 84
Alcohol Evaporator 84
Trans. Torque Conv. Hydraulic Sys. . 86
Oil Level 86
Oil Change 87
Axles 89
Oil Level 89
Oil Change 90
Wheels and Tires 91
Wheel Nut Torque 91
Tire Pressure 9
Return-To-Dig Adjustment 92
Bucket Height Control Adjustment . . 92
Bucket Teeth 94
Machine Storage 94
ROPS 96
Seat Belts 96
Accidental Upset 97
Maintenance and Inspection 97
Safety Precautions 97

MidWestTech | Case W20 Articulated Loader Operator's Manual | Publication 9-2795 Order the manual at mid-west-tech.com >

Optional 70 Amp. Alternator System

NO.	COLOR	FROM	TO
11	Light Green	Alt. FIELD Term.	Regulator
26	Black	Alt. GROUND Term.	Regulator
37A	Red	Alt. POS. OUTPUT Term.	80 Amp. Circuit Breaker
45	Purple	Alt. REG. Term.	Resistor at Engine Block
46	Purple	Resistor at Engine Block	Oil Pressure Switch

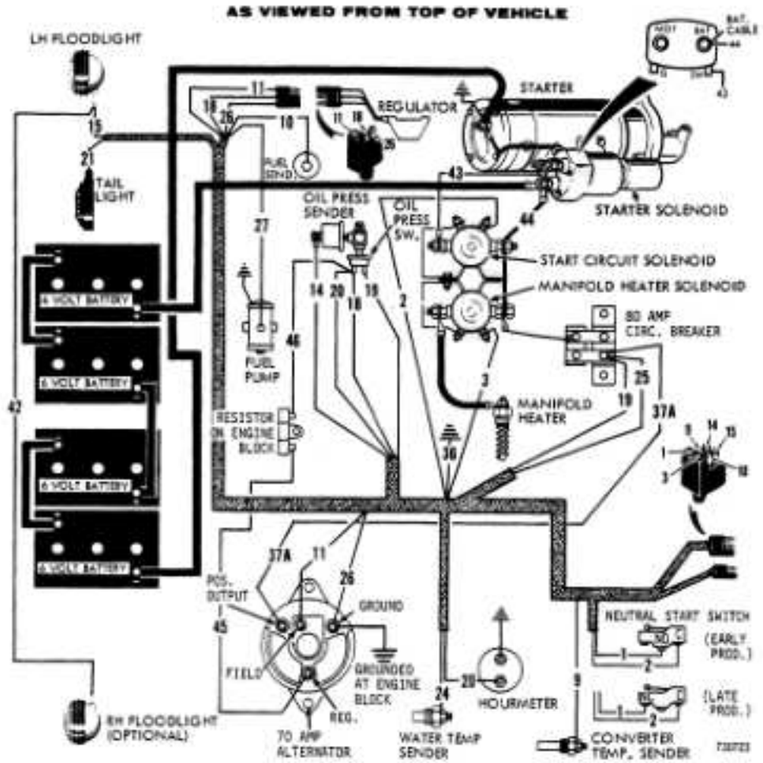


Figure 58A

Booster Batteries

When it is necessary to use a booster battery, or batteries, as an engine starting aid, attach the cables from the booster to the engine batteries as shown in Figure 59.

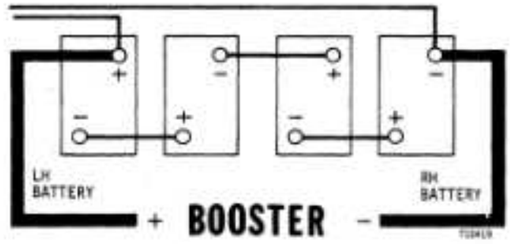


Figure 59

CAUTION: The alternator will be seriously damaged if booster cables are not connected negative-to-negative and positive-to-positive. The engine has a 24-volt electrical system; be sure the booster battery, or batteries, constitute a 24-volt system.

When attaching the booster cables, attach the positive cable clamp first and the negative cable clamp last.

When removing the booster cables, remove the negative cable first and the positive cable last.

EQUIPMENT AND STEERING HYDRAULIC SYSTEM

The equipment and steering hydraulic system is air pressurized Before servicing the system reservoir, the air supply must be shut off and the tank depressurized.

Oil Level

Check the reservoir oil level after every 60 hours of operation or weekly; if possible, have oil at operating temperature, 120° F. or higher.

Shut off engine. Lower bucket to ground. Close air shutoff valve above tank. See Figure 60. Let pressurized air escape by very slowly removing the dipstick-filler cap. Add oil as required.

Replace dipstick and tighten securely. Open air shutoff valve

MidWestTech | Case W20 Articulated Loader Operator's Manual | Publication 9-2795
Order the manual at mid-west-tech.com >