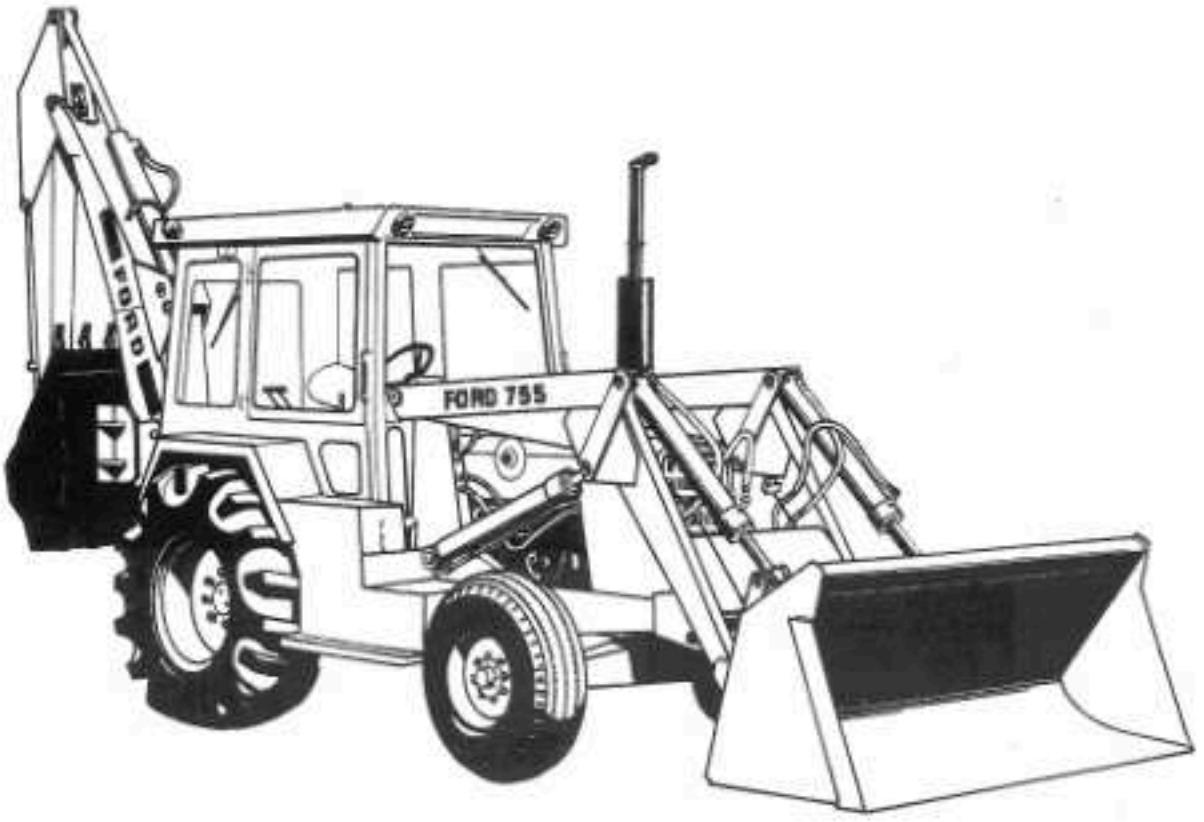
FORD

Service Manual

Tractor Loader Backhoe
755, 755A, and 755B



40075510

MidWestTech | Ford 755, 755A, 755B Tractor Loader Backhoe Service Manual | Public...
Order the manual at mid-west-tech.com >

Part 1

ENGINES

Chapter 1

ENGINES AND LUBRICATION SYSTEM

Section		Page
1.	Description and Operation	1
2.	Cylinder Head, Valves, and Related Parts	4
3.	Engine Front Cover and Timing Gears	12
4.	Oil Pan Sump and Oil Pump	17
5.	Connecting Rods, Bearings, Pistons, Rings, and Cylinder Block	20
6.	Balancer, Main Bearings, Flywheel, and Crankshaft	30
7.	Camshaft	39

Chapter 2

TURBOCHARGERS — AIR RESEARCH

Section		Page
1.	Description and Operation	43
2.	Turbocharger Overhaul	45
3.	Trouble Shooting	60

SCHWITZER

Section		Page
1.	Description and Operation	52
2.	Turbocharger Overhaul	53
3.	Trouble Shooting	60

MidWestTech | Ford 755, 755A, 755B Tractor Loader Backhoe Service Manual | Publicatio... Order the manual at mid-west-tech.com >

Chapter 3

COOLING SYSTEM

Section		Page
1.	Description and Operation	65
2.	Radiator and Thermostat	66
3.	Water Pump	67

Chapter 4

TROUBLE SHOOTING, SPECIFICATIONS, AND SPECIAL TOOLS

Section		Page
1.	Trouble Shooting	71
2.	Specifications	73
3.	Special Tools	81

MidWestTech | Ford 755, 755A, 755B Tractor Loader Backhoe Service Manual | Publicatio... Order the manual at mid-west-tech.com >

Part 1

ENGINES

Chapter 1

ENGINES AND LUBRICATION SYSTEM

Section		Page
1.	Description and Operation	1
2.	Cylinder Head, Valves, and Related Parts	4
3.	Engine Front Cover and Timing Gears	12
4.	Oil Pan Sump and Oil Pump	17
5.	Connecting Rods, Bearings, Pistons, Rings, and Cylinder Block	20
6.	Balancer, Main Bearings, Flywheel, and Crankshaft	30
7.	Camshaft	39

1. DESCRIPTION AND OPERATION

This part of the manual covers the diesel engine for the 755 Tractor. The Ford 755 engine is a 4 cylinder turbocharged diesel.

This part of the manual deals with disassembly, inspection and repair, and the assembly of engines; the lubrication system and the cooling system.

Cylinder Head Assembly - Including Valve Train Components

The cylinder head assembly incorporates the valves, valve springs, and rotators. The valve rocker arm shaft assembly is bolted to the head. The intake and exhaust manifolds are bolted to the head. The intake manifold is on the right side from the rear of the engine, and the exhaust manifold is on the left side. The water outlet connection and thermostat are attached to the front of the cylinder head. Valve guides are an integral part of the cylinder head, and valves with oversize stems are available for service. Special replaceable cast alloy valve seats are pressed into each valve port of the cylinder head. The exhaust valves are fitted with positive valve rotators. The Ford 755 intake valves do not have seals.

Exhaust valves have a square section O-ring seal.

Valve lash is maintained by self-locking adjusting screws. The camshaft is supported by five replaceable bearings. The camshaft is driven by the camshaft drive gear which is in mesh with the camshaft gear. Camshaft thrust is controlled by a plate secured to the block and located between the camshaft gear and the front journal of the camshaft.

The cylinder head has six evenly spaced head bolts per cylinder. The fuel injectors are mounted outside the rocker cover.

The engine cylinder head is designed with the face of the cylinder head flat. The combustion chambers are in the heads of the pistons.

MidWestTech | Ford 755, 755A, 755B Tractor Loader Backhoe Service Manual | Publicatio... Order the manual at mid-west-tech.com >