

**SERVICE
TECHNICAL
TRAINING
PROGRAM**

REFERENCE MANUAL

**LGT14D DIESEL TRACTOR
AND
44" AND 48"
MOWER ATTACHMENT**



NAME _____

Reprinted

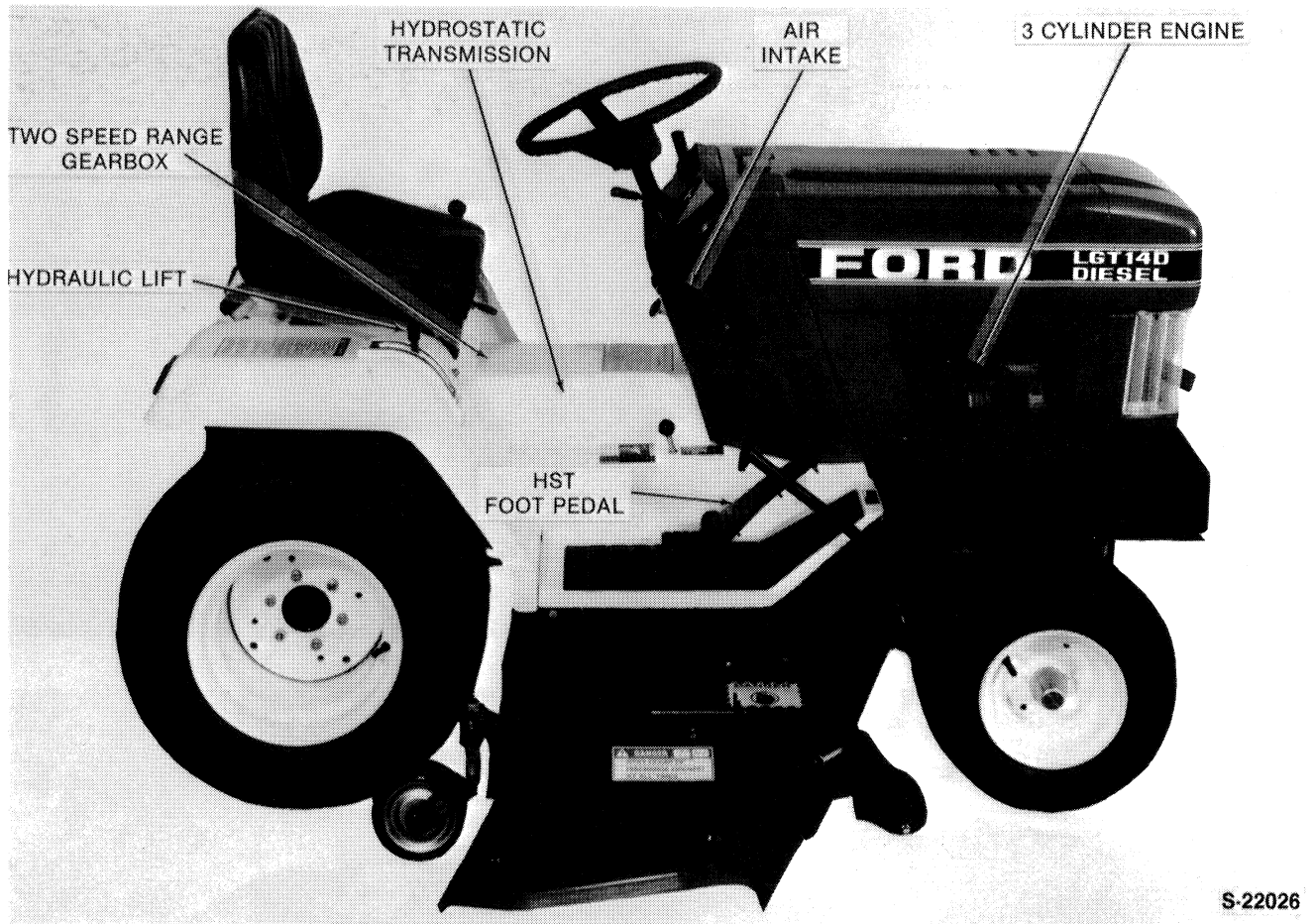
14 H.P. DIESEL LAWN AND GARDEN TRACTOR AND 44" AND 48" MOWER ATTACHMENT

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14 H.P. DIESEL LAWN AND GARDEN TRACTOR AND 44" AND 48" MOWER ATTACHMENT

Introduction



S-22026

The 14. H.P. Lawn and Garden Tractor is a heavy duty tractor equipped with a 3-cylinder liquid cooled diesel engine.

The engine is mounted in reversed position in the tractor frame so that the hot air flow from the radiator and engine is directed away from the operator. The transmission is a hydrostatic drive with a two-speed range transaxle assembly.

The hydrostatic transmission is foot pedal controlled.

The two speed range gearbox is shifted by a control lever.

The hydraulic lift system consists of a single spool control valve mounted on top of the transaxle housing directly under the operator's seat.

The steering system is a gear type and is operated directly off the steering wheel shaft.

TRACTOR SPECIFICS

Overall Length	71 in.	(1800 mm)
Width	36.9-37.9 in.	(937-962 mm)
Height	47.6 in.	(1210 mm)
Weight	816 lbs.	(370 kg)

Speeds —

Forward — Low	0-4 mph	(0-6.4 kmh)
Forward — High	0-8 mph	(0-12.8 kmh)
Reverse — Low	0-2 mph	(0-3.3 kmh)
Reverse — High	0-4 mph	(0-6.4 kmh)

Tires

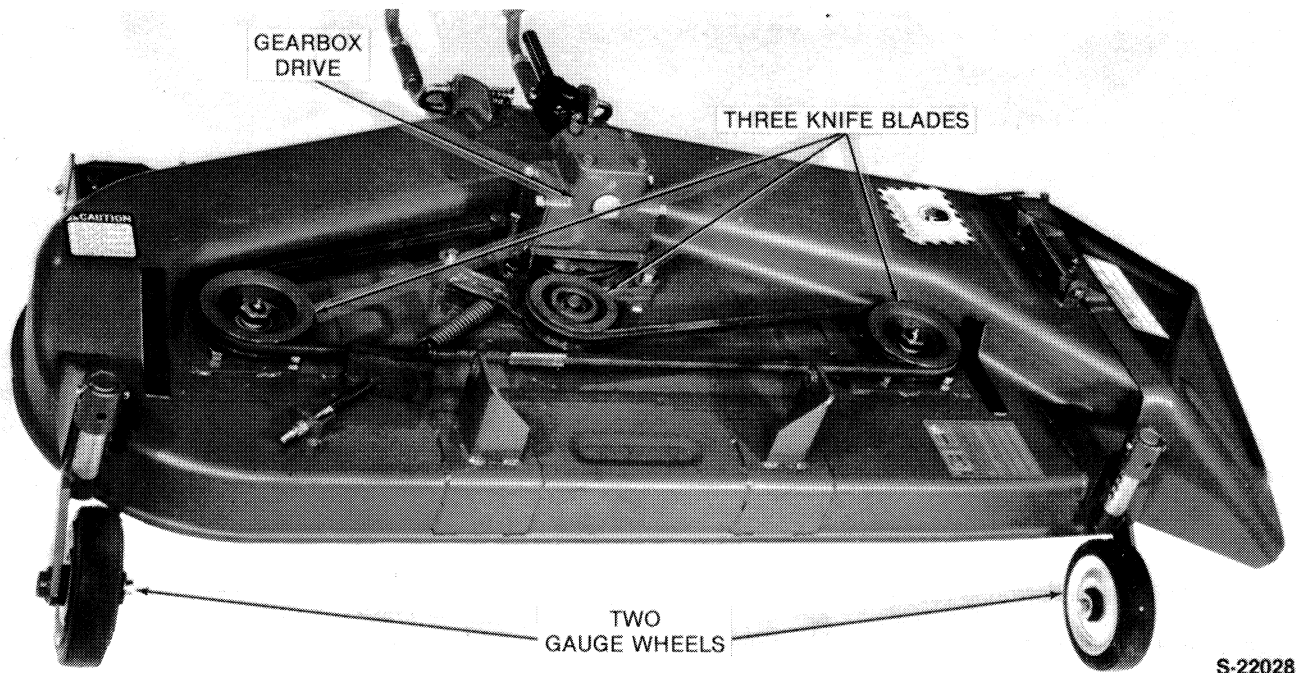
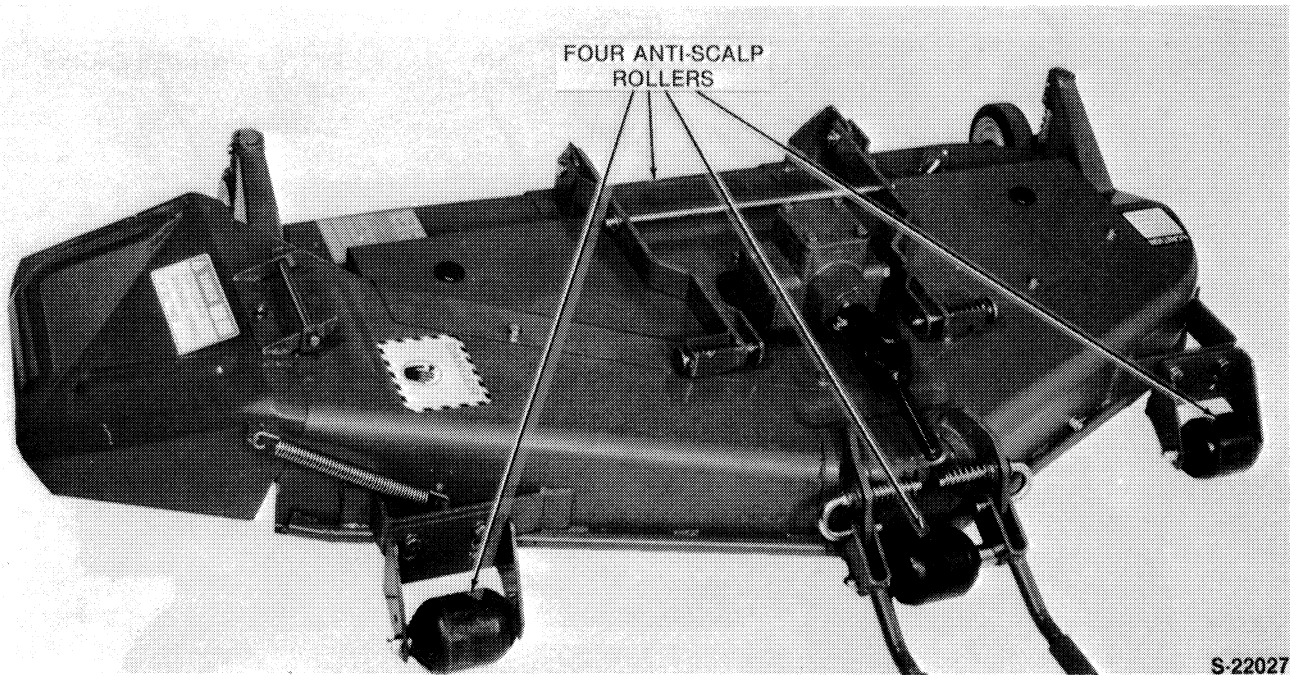
Front	16 x 6.5 x 8 Agri.
Rear	23 x 10.5 x 12 Agri.

Brake

Transmission Mounted — Dry Disc Type

14 H.P. DIESEL LAWN AND GARDEN TRACTOR AND 44" AND 48" MOWER ATTACHMENT

Introduction



Mower
Cutting Width
Cutting Height

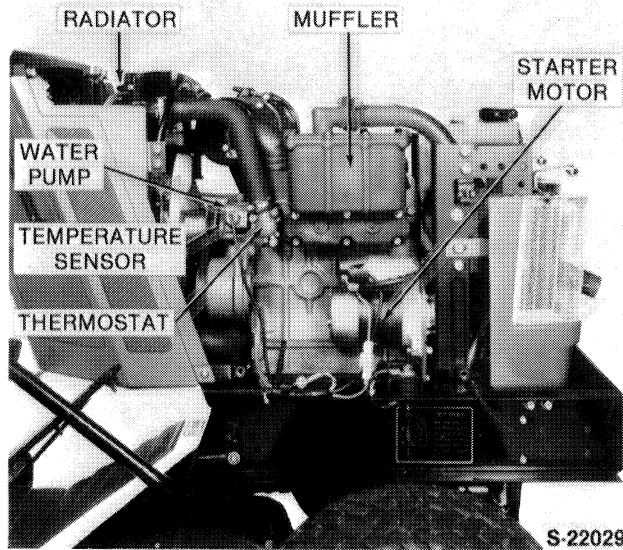
44" 48"
1"-4" (Approx. 1/4"
Increments)

Mounting
Drive
Clutch
Blades
Deck

Parallel Linkage
Twin V-Belt
Idler Pulley
Three Knife
Heavy Gauge Steel

14 H.P. DIESEL LAWN AND GARDEN TRACTOR

Engine — General



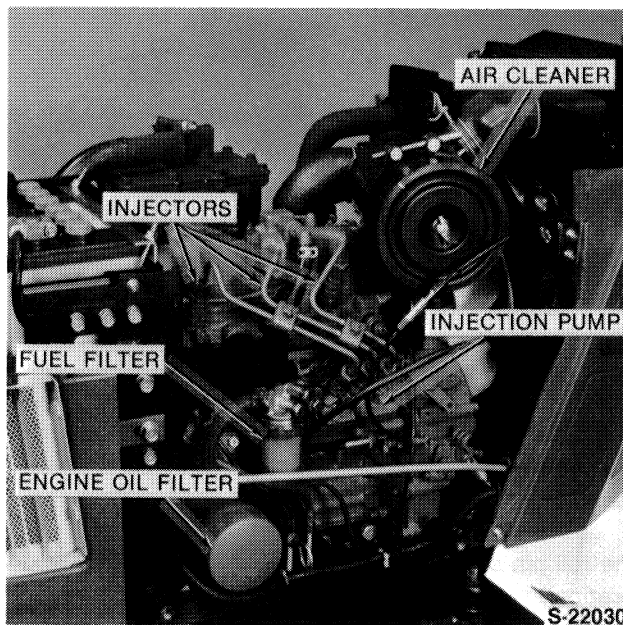
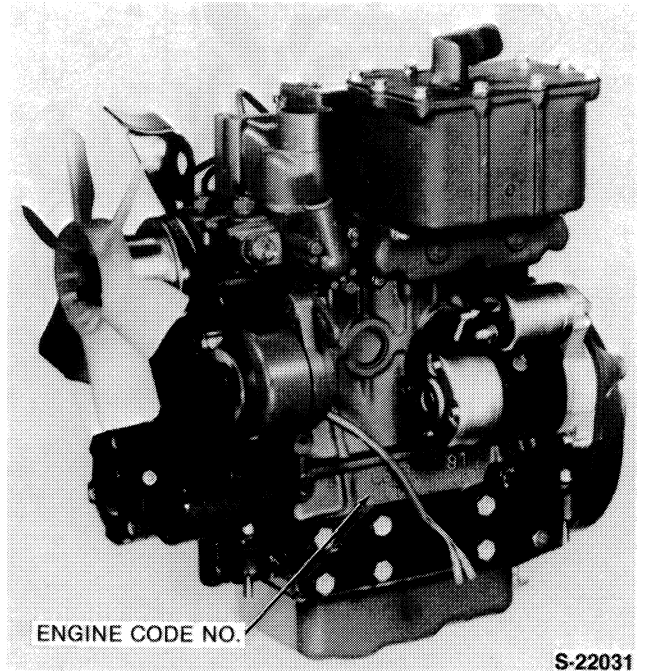
ENGINE SPEED

LOW IDLE

1150-1250 rpm

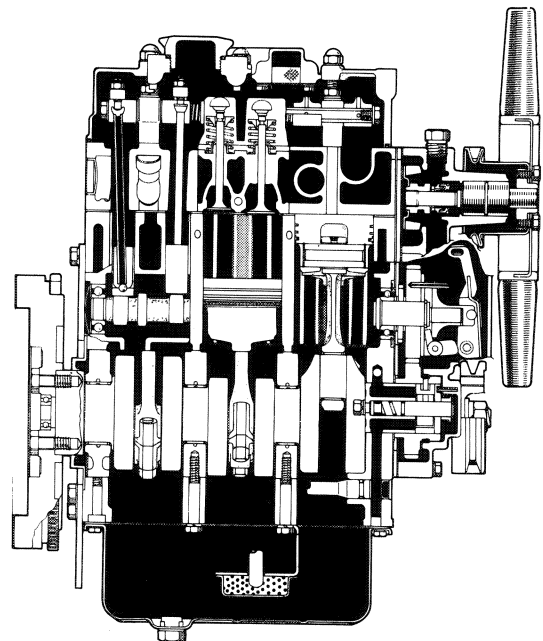
HIGH IDLE (No Load)

3350-3450 rpm



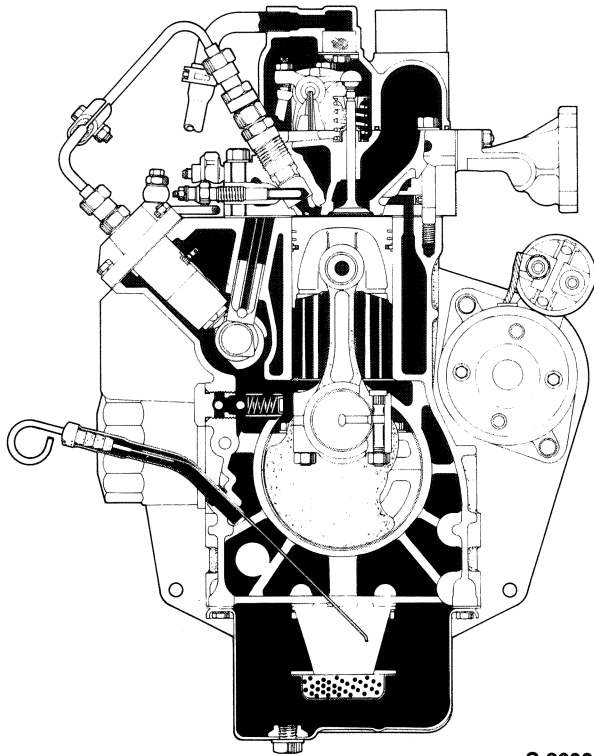
3 CYLINDER DIESEL ENGINE

ENGINE CODE	E643
TYPE	4 CYCLE, WATER COOLED, DIESEL
HORSEPOWER	14 H.P. AT 3200 rpm (GROSS)
NUMBER CYLINDERS	3
FIRING ORDER	1-2-3
BORE/STROKE	2.52" x 2.52" (64 x 64 mm)
DISPLACEMENT	37.6 CU. IN. (617 cc)
COMPRESSION RATIO	23.5:1
AIR CLEANER	DRY TYPE



14 H.P. DIESEL LAWN AND GARDEN TRACTOR

Engine — General

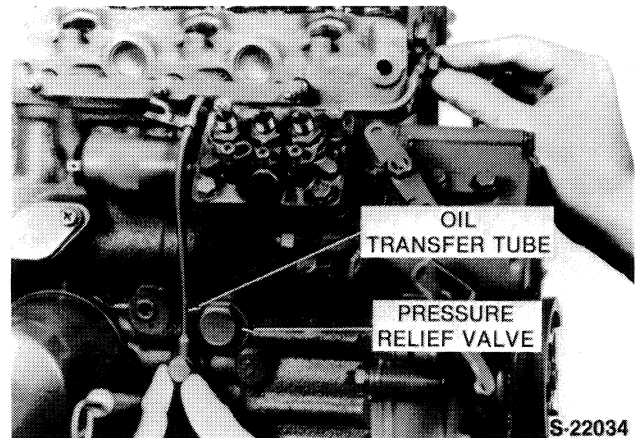


The engine is a three cylinder, liquid cooled, overhead valve diesel producing 14 h.p. at 3200 rpm.

The engine is identified by a code number E643 cast in the side of the engine block.

Four main bearings support the crankshaft. The front main bearing is a one piece bushing pressed into the front of the engine block. The remaining bearings are two piece liners and are held in place by removable bearing supports.

Oil flow is from the pump pick-up tube into a drilled passage in the block at the lower side of the oil pump.



LUBRICATION

Pressurized oil from the pump flows in a passage in the block to the area of the banjo bolt and the main oil gallery which extends the length of the block.

A relief valve located in the side of the block extends into the oil gallery.

Pressurized oil in the main oil gallery flows through passages to the four main bearings. Drilled passages in the crankshaft main journals connect to the connecting rod journals. The remaining oil flows through the banjo bolt and external tube to the front of the cylinder head. From there the oil flows through a passage in the head to the No. 1 rocker shaft pedestal. Oil flows upward through the pedestal, through a roll pin that extends into the rocker shaft. Oil seepage between the rocker arms and shaft lubricates the rocker arms, valve tappets, push rods and tappets.

The roll pin serves to hold the rocker shaft in a fixed location and restricts oil flow to maintain adequate oil pressure in the main oil gallery.

The cylinder walls, pistons and piston pins are splash lubricated from the crankshaft.

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