

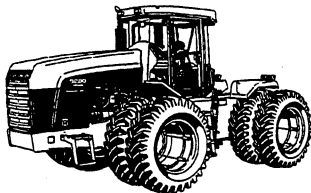
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**80/82 SERIES
TRACTOR
REPAIR**

**9280, 9480, 9680, 9880
9282, 9482, 9682, 9882**

Vol. 1
40928040



**80/82 SERIES
TRACTOR
REPAIR**

**9280, 9480, 9680, 9880
9282, 9482, 9682, 9882**

Vol. 2
40928040



**80/82 SERIES
TRACTOR
REPAIR**

**9280, 9480, 9680, 9880
9282, 9482, 9682, 9882**

Vol. 3
40928040



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SECTION 1

ENGINE

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INTRODUCTION

The engine section of this manual is broken into four separate sections:

- air induction system
- exhaust system
- engine removal and installation
- cooling system

The 80/82 Series tractors use a diesel engine manufactured for New Holland by the Cummins Engine Company and are available in five different sizes with eight different horsepower outputs.

The following chart is a list of tractor models with horsepower and engine classification:

Model	Horsepower	Engine Model
9280	250	L10
9282	260	C8.3
9480	300	14L
9482	310	M11
9680	350	14L
9682	360	N14
9880	400	14L
9882	425	N14

If an internal engine problem arises, that requires engine removal, this section will describe the proper procedure for removal and installation of the engine assembly. The engine will be repaired by an authorized Cummins dealer/distributor.

When contact is made with your Cummins dealer/distributor, it is important that the information contained on the Engine Identification Plate is given.

On the 9280 (Cummins L10 engine) and 9482 (Cummins M11) engines, the Engine Identification Plate is located on the left side of the engine block below the valve cover.

For the 9282 (Cummins C8.3) and 9682 and 9882 (Cummins N14) and the 9480, 9680 and 9880 (Cummins NTA855) tractors, the Engine Identification Plate is located on the left side of the engine ahead of the fuel injection pump.

NOTE: It is very important to include the engine number, engine family, and engine CPL (control parts listing) number when contacting your Cummins Engine Dealer/Distributor.

To locate your nearest Cummins Engine Dealer/Distributor, contact the Cummins Engine Co. at 1-800 DIESELS (North America, excluding Alaska and Hawaii).

AIR INDUCTION SYSTEM - DESCRIPTION AND OPERATION

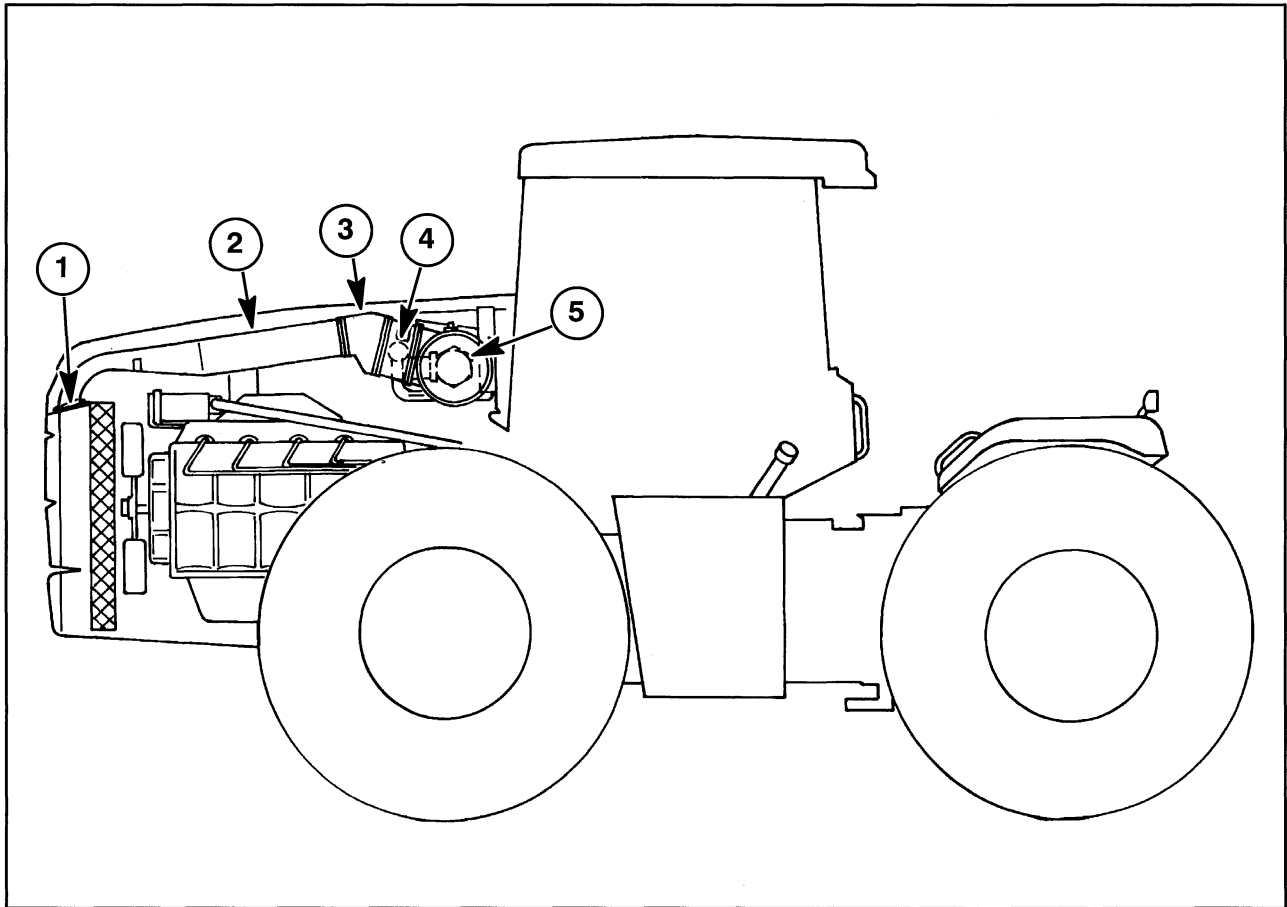


Figure 1-1

INTRODUCTION

The air induction system is the first section to be covered in the engine section. The air induction system has slight variations for the different engines supplied by the Cummins Engine Company. Though there are a few variations, the components are the same, for all 80/82 Series tractors.

The air induction system consists of a bulb seal, 1, surrounding the front edge of the air induction tube (Some early production tractors may not have the bulb seal installed. If not, install a seal at the time of service.); the air induction tube, 2, is mounted to the upper radiator shell and directs

fresh air to the rubber boot, 3. The rubber boot is connected to the precleaner, 4. The precleaner is designed to eliminate larger particles of dirt and debris from entering into the air cleaner, 5.

The air cleaner is comprised of a primary (outer) air filter and a secondary (inner) air filter to ensure that no dirt or debris reaches, and damages, the turbocharger assembly.

The air cleaner is mounted to the rear engine frame by four bolts. There are eight bolt holes on later production tractors to accommodate orientation of air induction components. When installing the air cleaner, be certain to mount it in the proper holes or the air induction components will not fit the tractor properly.

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