

820 Series Diesel Tractors



SERVICE MANUAL 820 Series Diesel Tractors

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ENGLISH



**SERVICE MANUAL FOR
JOHN DEERE DEALERS**

**820 DIESEL TRACTOR
SERIES**

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TO THE JOHN DEERE SERVICEMAN

This Service Manual contains maintenance instructions for the John Deere "820" Series Diesel Tractor. Included are complete instructions for removal, disassembly, inspection, repair, assembly and installation of the major parts and assemblies of the tractor.

In addition, the manual contains brief descriptions of the more complicated systems of the tractor, and tells how they operate. Dimensions of many new wearing parts are given as an aid in determining when parts replacement is necessary. Tests and adjustments, required to keep the tractor operating efficiently, are explained in detail.

The manual also contains complete instructions for performing the predelivery, delivery, after-delivery and 150-hour services outlined in the Service Policy which accompanies each tractor. By using this information, you will be sure that the tractor is ready to perform efficiently and economically when it is delivered to its new owner and that it will be restored to peak efficiency when it is brought into your shop for after-delivery services.

A section on "Tune-Up and Adjustment" contains instructions for performing the services necessary to help the tractor perform efficiently and economically after it has been in the field for some time.

The sections in this manual concerning the power steering mechanism, fuel injection pumps and nozzles, and electrical equipment are limited mainly to removal and installation instructions.

Full maintenance instructions for the power steering mechanism are given in *Service Manual*

SM-2016, "Power Steering for John Deere Tractors." When additional information, concerning the fuel injection pumps and nozzles, is required, see *Service Manual SM-2018, "Testing and Servicing Fuel Injection Pumps and Nozzles."*

Instructions for testing, repairing and adjusting the generator and electric cranking motor are given in *Service Manual SM-2000, "Tractors and Engines (General)."* For additional information concerning the Custom Powr-Trol mechanism, consult *Service Manual SM-2022, "Custom Powr-Trol."*

Although this manual is prepared specifically as an aid to proper maintenance of the "820" Series Diesel Tractor, much of the information it contains applies equally (with minor variations) to the Model "80" Tractor. It can be used to advantage when maintenance problems concerning the Model "80" Tractor arise.

This manual was planned and written for the Service Department; its place is in the shop. Use the manual whenever in doubt about correct maintenance procedures. Use it as a text book for training new Service Department personnel who are unfamiliar with John Deere Tractors.

Daily use of the Service Manual as a guide for any and all service problems will reduce error and costly delay to a minimum and assure you the best in finished service work. In many instances your customer's confidence in your work will be improved when he sees you using the Service Manual. He knows you are following approved maintenance procedures and making proper adjustments. There is no guesswork when you use the manual.



Thank you very much
for your reading.
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