JOHN DEERE 400 AND 425 HAY CUBERS

JOHN DEERE

TECHNICAL MANUAL

JOHN DEERE 400 AND 425
HAY CUBERS

TM1010 (01JUL74) English

TM1010 (01JUL74)

LITHO IN THE U.S.A.
ENGLISH

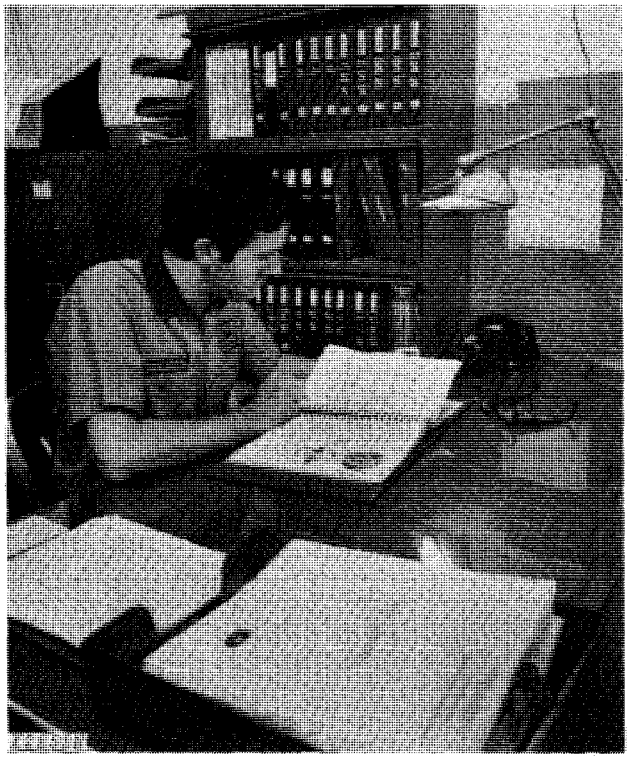
400 AND 425 HAY CUBERS
Technical Manual
TM-1010 (Jul-74)

CONTENTS

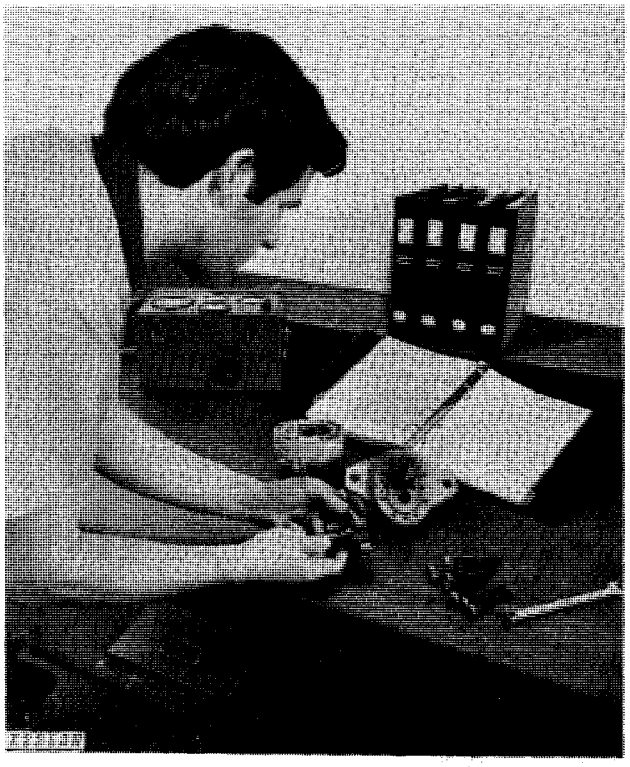
All information, illustrations and specifications contained in this technical manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

Litho in U.S.A.

INTRODUCTION



Use FOS Manuals for Reference



Use Technical Manuals for Actual Service

This technical manual is part of a twin concept of service:

- **FOS Manuals—for reference**
- **Technical Manuals—for actual service**

The two kinds of manuals work as a team to give you both the general background and technical details of shop service.

Fundamentals of Service (FOS) Manuals cover *basic* theory of operation, *fundamentals* of trouble shooting, *general* maintenance, and *basic* types of failures and their causes. FOS Manuals are for training new men and for reference by experienced men.

Technical Manuals are concise service guides for a *specific* machine. Technical Manuals are on-the-job guides containing only the vital information needed by a journeyman mechanic.

When a serviceman should refer to a FOS Manual for more information, a FOS symbol like the one at the left is used in the TM to identify the reference.

Some features of this technical manual:

- *Table of contents at front of manual*
- *Exploded views showing parts relationship*
- *Photos showing service techniques*
- *Specifications grouped for easy reference*

This technical manual was planned and written for you—a journeyman mechanic. Keep it in a permanent binder in the shop where it is handy. Refer to it whenever in doubt about correct service procedures or specifications.

Using the technical manual as a guide will reduce error and costly delay. It will also assure you the best in finished service work.

This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Litho in U.S.A.

Section 10
GENERAL

CONTENTS OF THIS SECTION

Group 5
SPECIFICATIONS

Over-all length:
Pickup gauge wheel to hitch:
400 Cuber.....20 ft. 6 in. (6.2 m)
425 Cuber.....20 ft. (6.1 m)
With elevator lowered .....31 ft. 1 in. (9.2 m)
Width .....8 ft. (2.4 m)
Height:
With elevator lowered:
400 Cuber.....12 ft. (3.7 m)
425 Cuber.....13 ft. 1 in. (4.0 m)
Without elevator and mufflers 8 ft. 10 in. (2.7 m)
Weight:
Empty:
400 Cuber.....(Approx.) 13200 lbs. (5987 kg)
425 Cuber....(Approx.) 13880 lbs. (6296 kg)
With fuel and water tanks full:
400 Cuber ....(Approx.) 16205 lbs. (7350 kg)
425 Cuber ....(Approx.) 16885 lbs. (7659 kg)
Propelling drive..... Variable with V-belt
Ground speeds:
Variable range 1st ..... .7- 1.7 mph (1-3 km/h)
Variable range 2nd.... 1.3- 3.3 mph (2-5 km/h)
Variable range 3rd ... 3.0- 6.7 mph (5-11 km/h)
Variable range 4th . 6.0- 13.4 mph (10-22 km/h)
Variable range reverse 1.7- 3.8 mph (3-6 km/h)
Tire sizes:
Rear—low-profile all-weather
(28 psi [193 kPa]) ..... 14:9-26, 8-ply rated
Front-rib implement:
400 Cuber (40 psi [275 kPa]) ..... 7:50-16, 6-ply rated
425 Cuber (35 psi [241 kPa]) .....11L-15, 8-ply rated
Front gauge wheels—smooth
Implement (12 psi [83 kPa]) ..... 4:00-8, 4-ply rated

Wheel tread—center to center:
Rear .....80-1/8 in. (204 cm)
Front:
400 Cuber.....68-3/8 in. (174 cm)
425 Cuber.....74-1/4 in. (189 cm)
Front gauge wheels:
400 Cuber.....90 in. (229 cm)
425 Cuber.....87 in. (221 cm)
Steering ..... Full-power hydrostatic
Brakes:
Mechanical:
400 Cuber ... Individual, mechanical disk type
425 Cuber (Serial No. -655)
Individual, mechanical disk type
Hydraulic:
425 Cuber (Serial No. 656-)
Individual 6 in. (15.24 cm) hydraulic disk type
Capacities: (All U.S. Measure)
Fuel tank.....83 gal. (314 l)
Water tank .....300 gal. (1135 l)
Engine cooling system..... 11 gal. (42 l)
Engine crankcase with filter..... 5 gal. (19 l)
Transmission..... 14 pts. (7 l)
Final drives, each ..... 4-1/2 pts. (2 l)
Planetary gear box..... 17 gal. (64 l)
Hydraulic reservoir ..... 8 gal. (30 l)
Hydraulic system (complete) .....10 gal. (38 l)
Main clutch ..... 11 in. O.C., double plate (27.94 cm)
Pickup width between flares ..6 ft. 1 in. (1.9 m)
Pickup draper belt speed
(400 Cuber) ... 313 rpm or 3.6 mph (6 km/h)
Pickup cylinder speed (425 Cuber) ..65-137 rpm
Pickup feeder speed (425 Cuber) ....27-56 rpm

Litho in U.S.A.