

**AT400A 4-ROW, AT600A
6-ROW, AT800A & AT830A
8-ROW, AND AT1230A
12-ROW ROW-CROP
CULTIVATORS**



JOHN DEERE

OPERATORS MANUAL

AT400A 4-ROW, AT600A 6-ROW, AT800A &
AT830A 8-ROW, AND AT1230A 12-ROW
ROW-CROP CULTIVATORS

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TO THE PURCHASER

This manual contains valuable information about your new John Deere Row-Crop Cultivator. It has been carefully prepared and illustrated. In it, you will find instructions and helpful suggestions for operating, adjusting, attaching, transporting, lubricating, and servicing your new cultivator. You will also find instructions for adapting your cultivator to work properly in all types of field cultivation.

Your new cultivator was built to rigid manufacturing standards. Material and workmanship are the best.


Precision production methods, and accurately controlled heat-treating assure maximum strength and long life for every part.

Keep this manual in a convenient place for quick and easy reference. Study this manual carefully. You have purchased a dependable and sturdy implement, but only by proper care and operation can you expect to receive the service and long life designed and built into it.

Give your cultivator proper attention during slack periods, and by doing this it will always be ready, without delay, when you need it.

Sometime in the future, your cultivator may need new parts to replace those that are worn or broken. If so, go to your John Deere dealer. Provide him with the model number of your cultivator and the date purchased. Record this information in the space provided below, so it will be readily accessible when it is needed.

The warranty on this cultivator appears on your copy of the purchase order which you should have received from your dealer when you purchased the cultivator.

 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.

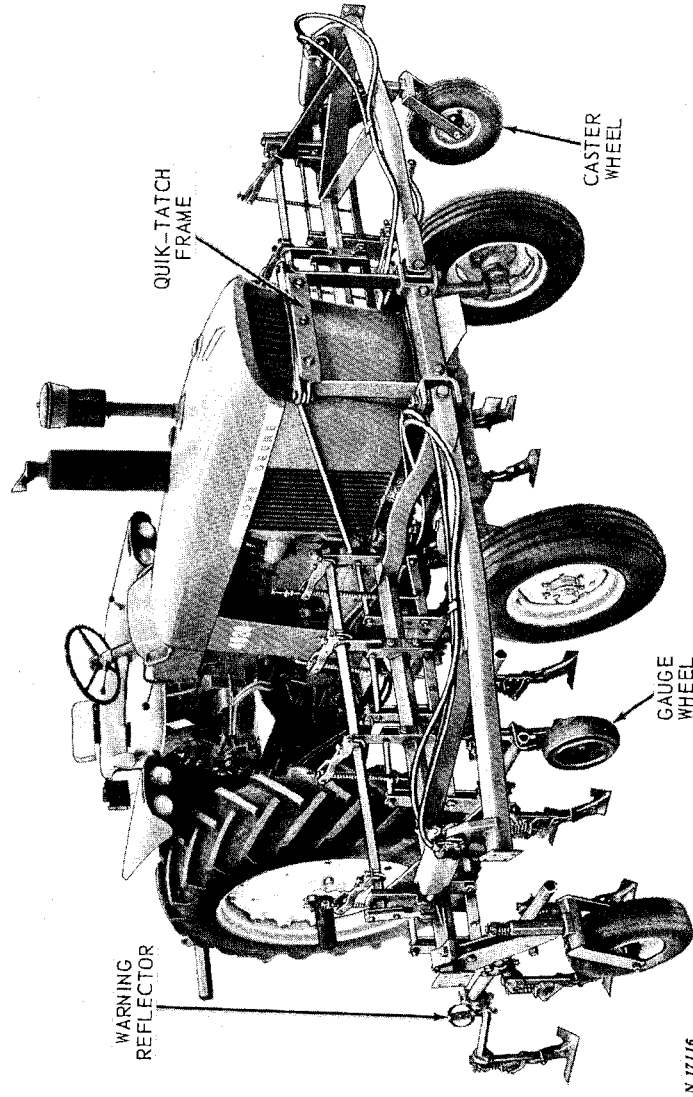
LOCATION REFERENCES

Right-hand and left-hand references are determined by standing at the rear of the cultivator and facing in the direction of travel.

John Deere AT400A Four-Row, AT600A Six-Row AT800A, AT830A Eight-Row and AT1230A Twelve-Row Cultivators	
Cultivator Model	
Date Purchased 19	
<i>(To be filled in by Purchaser)</i>	

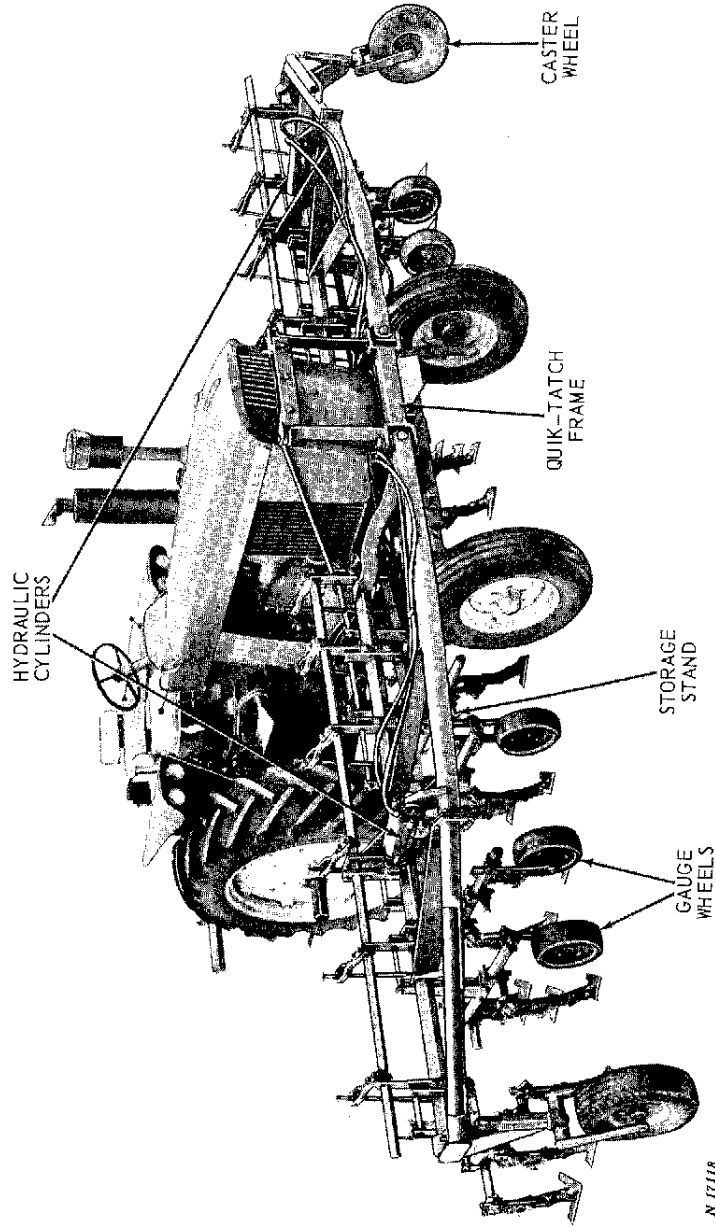
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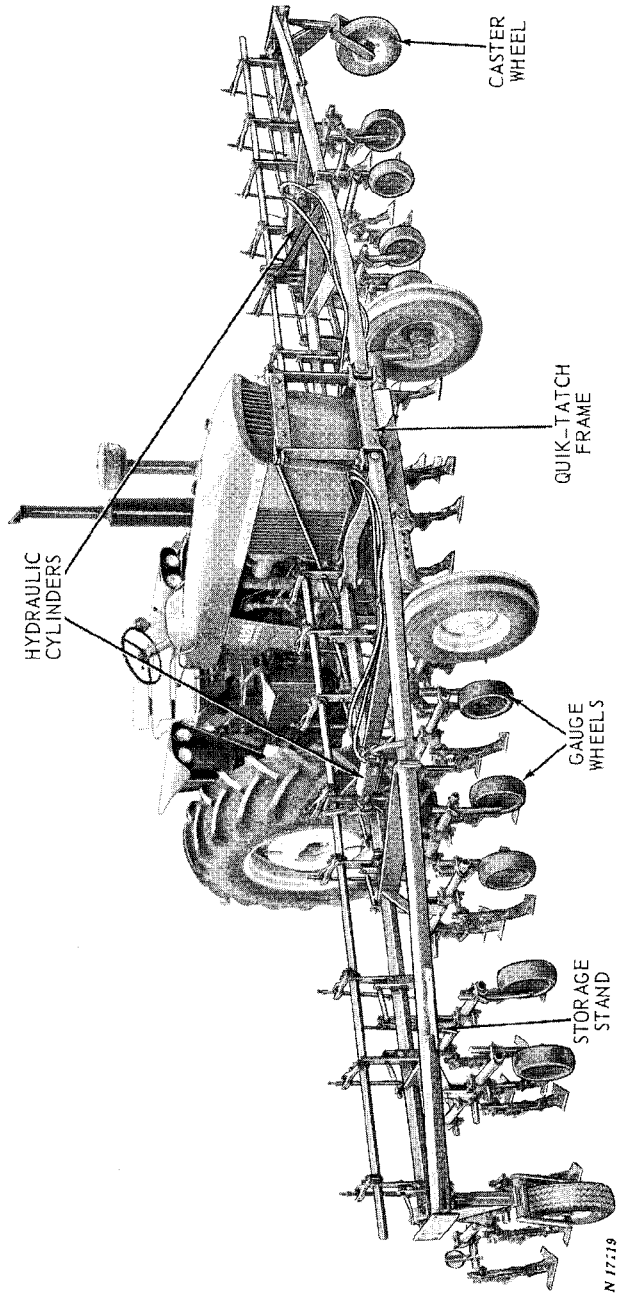
John Deere AT400A Cultivator on John Deere 4020 Tractor
with Adjustable-Tread Front Axle

N 17116



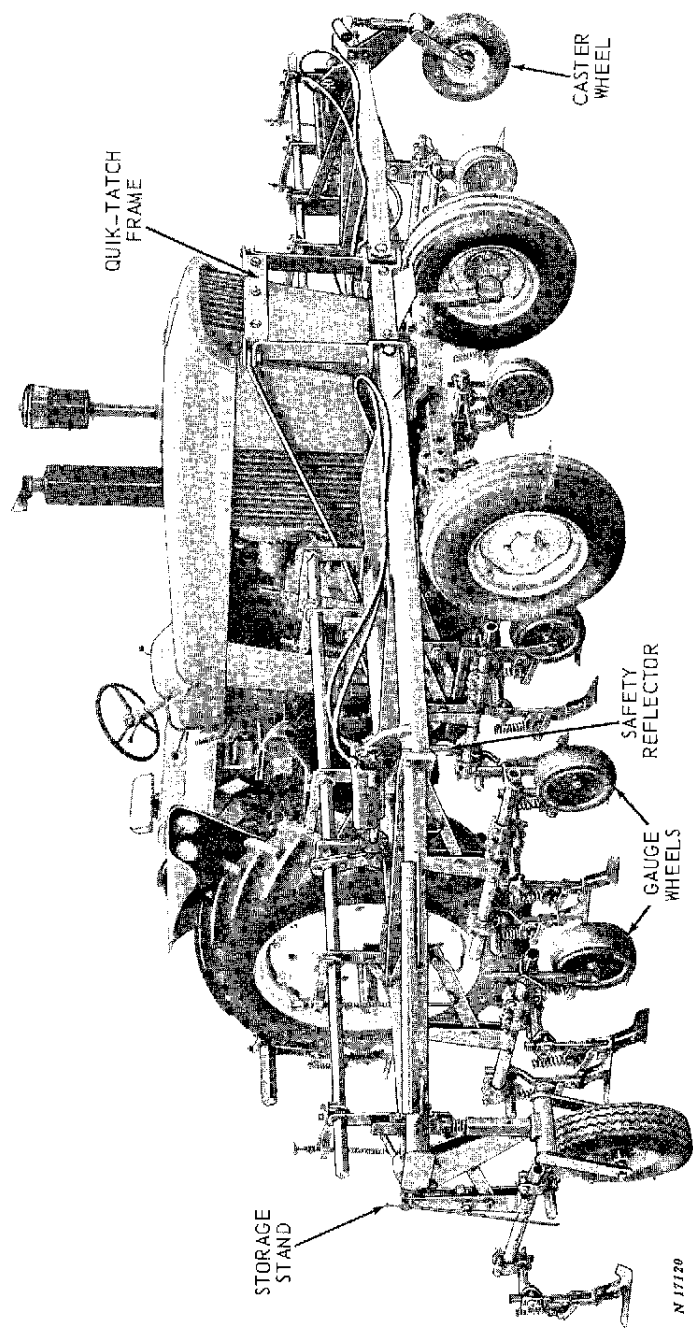
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John Deere AT600A Cultivator on John Deere 4020 Tractor
with Adjustable-Tread Front Axle



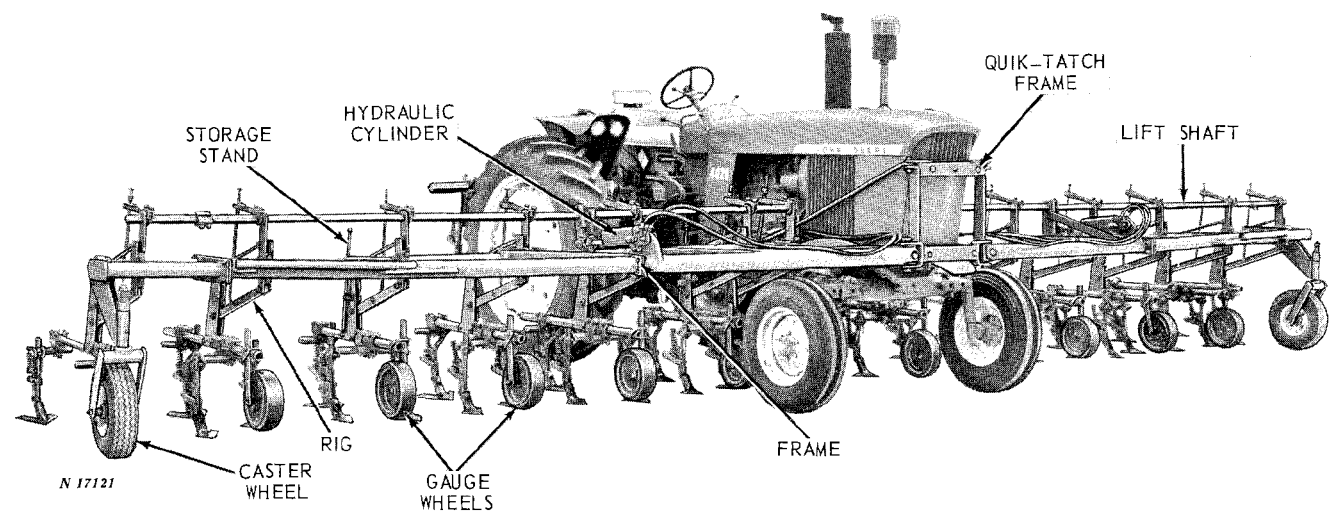
John Deere AT800A Cultivator on John Deere 4020 Tractor
with Adjustable-Tread Front Axle

N 77719



John Deere A T830A Cultivator on John Deere 4020 Tractor
with Adjustable-Tread Front Axle

N 17720



*John Deere AT1230A Cultivator on John Deere 4020 Tractor
with Adjustable-Tread Front Axle*

SPECIFICATIONS

	AT400A	AT600A	AT800A	AT830A	AT1230A
Rows Cultivated	4	6	8	8	12
Row-spacing	36" to 40"	36" to 40"	36" to 40"	28" to 30"	28" to 30"
Weight (approximate)	2,000 lbs.	2,900 lbs.	3,640 lbs.	2,650 lbs.	3,525 lbs.
Width in Working Position (approximate)	14' 2"	20' 10"	27' 6"	20' 10"	30' 10"
Width in Transport Position (approximate)	14' 2"	15' 5"	15' 5"	15' 5"	15' 5"
Length in Transport Position - Tractor and Cultivator (approximate)	23'	23'	26' 4"	23'	28'
John Deere Row-Crop Tractor Required	3010, 3020, 4010, 4020, or 4320	3010, 3020, 4010, 4020, or 4320	4010, 4020, or 4320	3010, 3020, 4010, 4020, or 4320	4010, 4020, or 4320

Tractor

The tractor must be equipped with two 3 x 8 inch remote hydraulic cylinders, dual remote cylinder control valves and rear rockshaft.

The tractor may be equipped with adjustable-tread front axle, dual front wheels, or a single front wheel. If tractor is equipped with Roll-O-Matic it must be the heavy-duty Roll-O-Matic when using the AT600A, AT800A, AT830A or AT1230A Cultivator.

Tractor Front End Equipment	Tractor Front Tire Sizes				
	AT400A	AT600A	AT800A	AT830A	AT1230A
3010 or 3020 Dual Wheels or Adjustable-Tread Front Axle	6.00 x 14, 6-ply 6.00 x 16, 6-ply or 7.50 x 15, 6-ply	6.00 x 14, 6-ply 6.00 x 16, 6-ply or 7.50 x 15, 6-ply		6.00 x 16, 6-ply or 7.50 x 15, 6-ply	
4010, 4020, or 4320 Dual Wheels or Adjustable-Tread Front Axle	6.00 x 16, 6-ply or 7.50 x 15, 6-ply	6.00 x 16, 6-ply or 7.50 x 15, 6-ply	7.50 x 15, 6-ply	6.00 x 16, 6-ply 7.50 x 15, 6-ply 7.50 x 18, 6-ply or 10.00 x 16, 6-ply	7.50 x 15, 6-ply 7.50 x 18, 6-ply or 10.00 x 16, 6-ply
3010, 3020, 4010, 4020, or 4320 Single Front Wheel	11.00 x 12, 12-ply	11.00 x 12, 12-ply	11.00 x 12, 12-ply*	11.00 x 12, 12-ply	11.00 x 12, 12-ply*

**4010, 4020, or 4320 Tractor required for AT800A or AT1230A Cultivator.*

8 Specifications

Gauge Wheels

Rigid with anti-friction bearing.

Caster Wheel Tire Size

20 x 8 x 10, 4-PR implement tire.
tire.

Front Rig Equipment

Regular spring-trip shanks with universal sweeps.

Quick-adjustable spring-trip shanks with universal sweeps.

Eighteen used on AT400A.

Twenty-eight used on AT600A.

Thirty-eight used on AT800A.

Twenty-four used on AT830A.

Thirty-six used on AT1230A.

Rear Rigs

Various types are available.

Tool Bar Type

250A Series Tool Bar Type for 3-Point Hitch.

253B Tool Bar Type for 3-Point Hitch.

The "B" Series (except 253B Series) or 250A Series Rear Rigs are recommended for tractors equipped with cane and rice tires.

Shank Equipment for Rear Rigs

Regular Spring-Trip Shanks.

Long Regular Spring-Trip Shanks (257A Rear Rig only).

Quick-Adjustable Spring-Trip Shanks.

Long Quick-Adjustable Spring-Trip Shanks (258A Rear Rig only).

Single Spring-Tooth Shanks.

Friction-Trip Shanks.

Double Spring-Tooth Shanks (256A Rear Rig only).

Sweeps and Shovels

A wide variety of types and sizes available.

Special Equipment

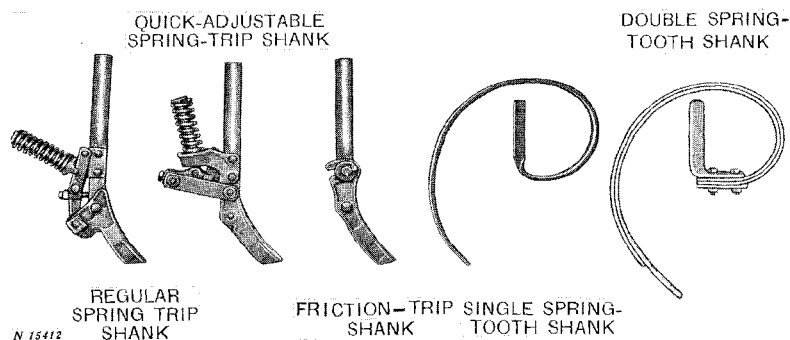
Rig Mounted Shields.

Rotary Hoe.

Weeding Knife Shanks.

No. 4 Minimum Tillage Attachment (38 or 40-inch rows only).

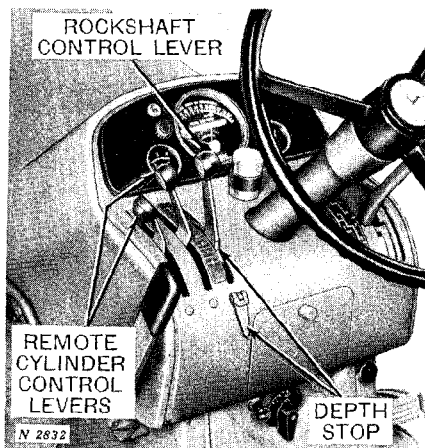
No. 6 Minimum Tillage Attachment (38 or 40-inch rows only).



(Specifications and design subject to change without notice.)

OPERATION

CONTROLS



The front rigs are raised and lowered by the remote cylinder control levers on the tractor. The rear rigs of the cultivator are raised and lowered by the rockshaft control lever.

Install hydraulic lines in the correct receptacle so that the front rigs will raise when the levers are pushed forward and will lower when levers are pulled backward.

Adjust the depth stop on the rockshaft control lever quadrant to control the working depth of the rear rigs.

See your tractor operator's manual for complete tractor control instructions.

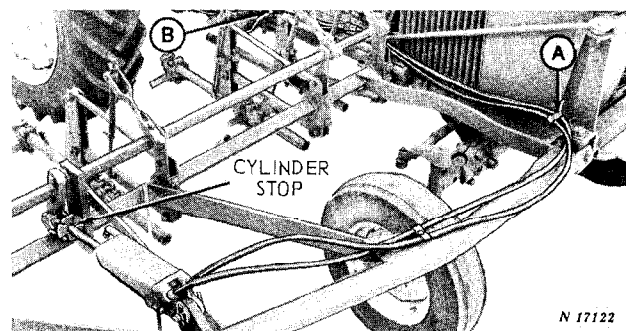
HYDRAULIC CYLINDER AND HOSES

The cultivator rigs are raised and lowered by a hydraulic cylinder on each side of the cultivator. See page 17 for adjustment of cylinder stop.

Attach hydraulic hoses firmly in all the hose clamps. Be sure hose is fairly tight between attaching points "A" and "B" to avoid interference between the hoses and frame parts when the cultivator is swung from transport position into working position.

REMOVING AIR FROM CYLINDER AND HOSES

Due to the addition of the extra hoses, air may become trapped in the hose line. If necessary, bleed air from cylinder and hoses according to instructions in tractor manual.



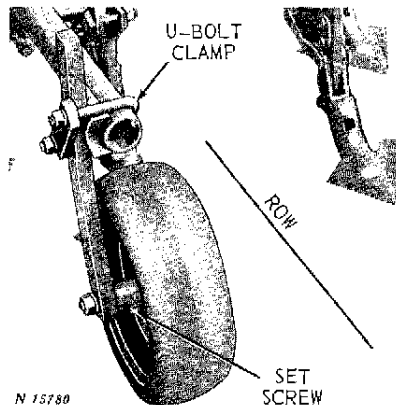
GAUGE WHEELS

The gauge wheels determine the depth of cultivation. Set all gauge wheels to operate at the same depth.

Normally set the gauge wheels 1 to 2 inches above the ground with the cultivator sweeps or shovels resting on the ground.

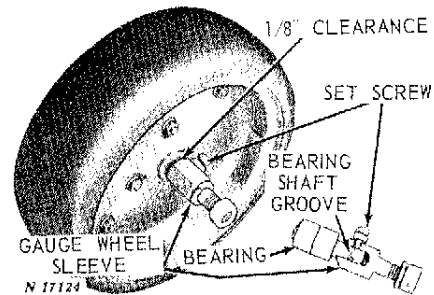
However, if the cultivator is working in soft or sandy soil, set the gauge wheels 1/2-inch off the ground. This should provide sufficient penetration.

Adjust the gauge wheels by loosening the U-bolt clamp and moving the shank to the desired position.



Rigid Gauge Wheel with Anti-Friction Bearing

The gauge wheels should be attached so that the wheels are under the rig pipes and the shanks are positioned to the right and left of the rig.



The gauge wheel sleeve must be assembled on the gauge wheel bearing shaft as shown above.

A portion of the sleeve has been cut away to show position of set screw in the bearing shaft groove.

Tighten the set screw in bearing shaft groove to prevent loss of gauge wheel or undue gauge wheel bearing failure.

Keep set screw and lock nut tight.

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