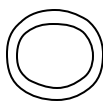
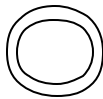
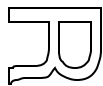
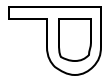
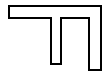
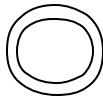


**570, 575  
and 375  
Skid-Steer  
Loaders**



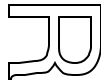
**John Deere Horicon Works**  
**TM1359 (20APR90)**

LITHO IN U.S.A.  
ENGLISH

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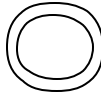
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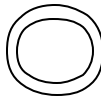
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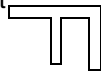
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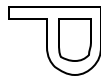
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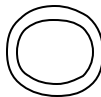
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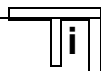


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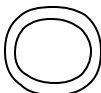
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A John Deere ILLUSTRATION™ Manual



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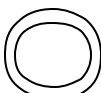
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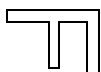
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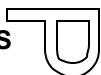


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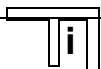
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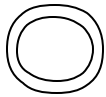
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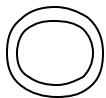
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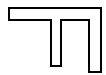
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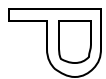
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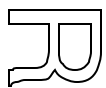
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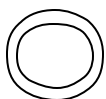
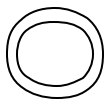
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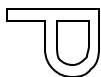


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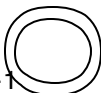
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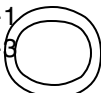
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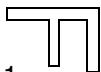


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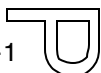


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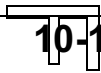
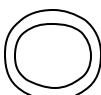
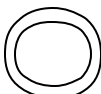
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**INTRODUCTION**

This manual is part of a total service support program.

FOS MANUALS—REFERENCE

TECHNICAL MANUALS—MACHINE SERVICE

COMPONENT MANUALS—COMPONENT SERVICE

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

Technical Manuals are concise service guides for specific machines. Technical manuals are on-the-job guides containing only the vital information needed by an experienced service technician.

Component Technical Manuals are concise service guides for specific components. Component Technical Manuals are written as stand alone manuals covering multiple machine applications.



10-05

TM1359 -JUN 2004 J5.03

O53,INTRO2 -19-03JUL85

## FEATURES OF THIS TECHNICAL MANUAL

John Deere ILLUSTRATION format emphasizing illustrations and concise instructions in easy-to-use modules.

Emphasis on diagnosis, analysis, and testing so you can understand the problem and correct it.

Diagnostic information presented with the most logical and easiest to isolate problems first to help you identify the majority of routine failures quickly.

Step-by-step instructions for teardown and assembly.

Summary listing at the beginning of each group of all applicable specifications, wear tolerances, torque values, essential tools, and materials needed to do the job.

An emphasis throughout on safety—so you do the job right without getting hurt.

This technical manual was planned and written for you—an experienced service technician. Keep it in a permanent binder in the shop where it is handy. Refer to it when you need to know correct service procedures or specifications.



TM1359 -JN-23N-J533

O53,INTRO3 -19-07OCT85

## SAFETY AND YOU

**CAUTION:** This safety symbol is used for important safety messages. When you see this symbol, follow the safety message to avoid personal injury.



TJ1309 -JN-07C-2033

M45,1005A,3 -19-09JAN85

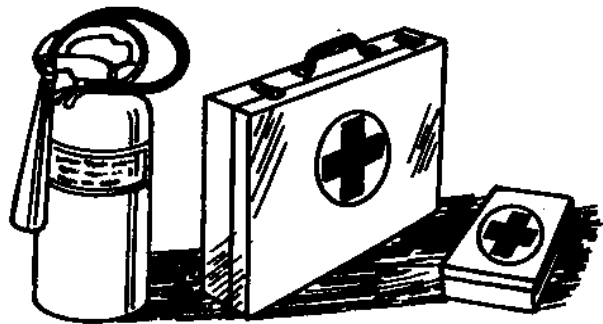
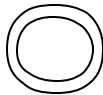


### PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



O53,FIRE2 -19-26JAN90

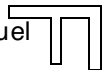
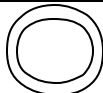
TS291 -JUN-20-1990

### HANDLE FUEL SAFELY—AVOID FIRES

Handle fuel with care: it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop engine before refueling machine. Fill fuel tank outdoors.

Prevent fires by keeping machine clean of accumulated trash, grease, and debris. Always clean up spilled fuel.



O53,FIRE1 -19-26JAN90

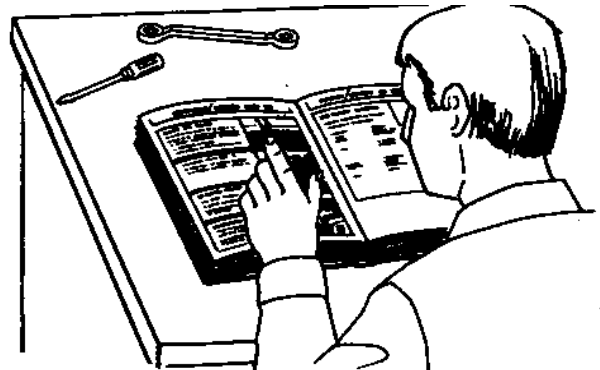
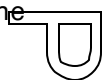
TS202 -JUN-20-1990

### LEARN MACHINE SAFETY

Carefully read this manual. Learn how to operate the machine and how to use the controls properly.

Do not let anyone operate this machine without proper instruction.

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

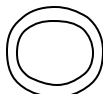
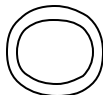


O53,READ2 -19-08JUL85

TS100 -JUN-20-1990

### WEAR PROTECTIVE CLOTHING

Wear fairly tight clothing .... and safety equipment.



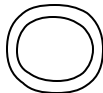
M45,1005A,6 -19-09JAN85

MS-300 -JUN-20-1990

### PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



O53,NOISE -19-26JAN90

TS.217 -J14-20A-J5.33

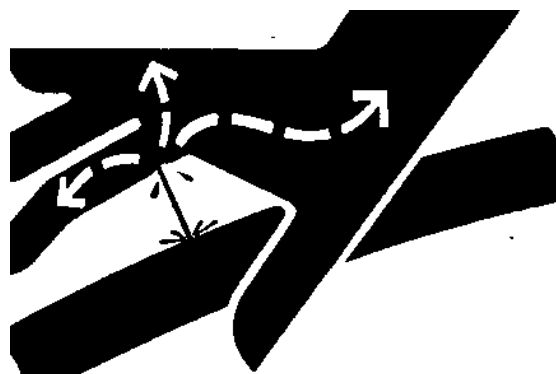
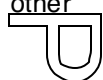
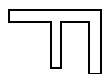
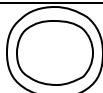
### AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

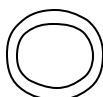
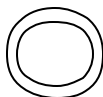
Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury may call the Deere & Company Medical Department in Moline, Illinois, or other knowledgeable medical source.



O53,FLUID -19-26JAN90

X8911 -J14-20A-J5.33



### SERVICE LOADER SAFELY

Do not work under lift arms unless they are resting on lift arm stops.



Before you work on loader or any attached equipment:

- Lower attachments to ground, or
- Rest lift arms on lift arm stops.



Lower lift arms all the way and stop engine before you install or remove attachments.

Before you make repairs or adjustments, stop the engine.



Do not change engine governor settings or overspeed engine.

Keep the loader and attachments in good operating condition.



Keep safety devices in place and in working condition.

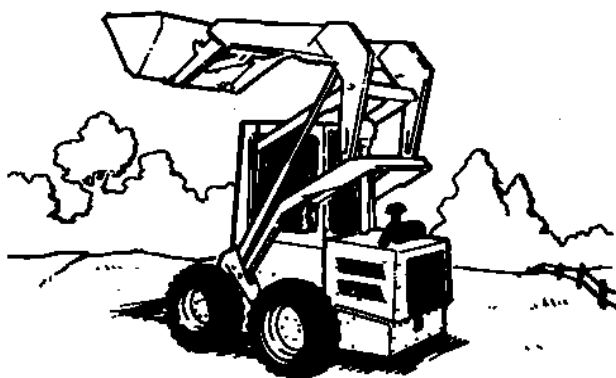
Keep all nuts, bolts, and screws tight so equipment is in safe working condition.

Before you work on any part of the engine, stop the engine, and let it cool. Hot engine parts can burn skin on contact.

Do not run engine unless park brake is locked.



Be careful to prevent clothing, jewelry, or long hair from getting caught in the fan blades, belts, or any other moving parts.



1515  
-JN-20V-2908  
100909

M21,SAU.I -19-09SEP85

### PREVENT BATTERY EXPLOSIONS

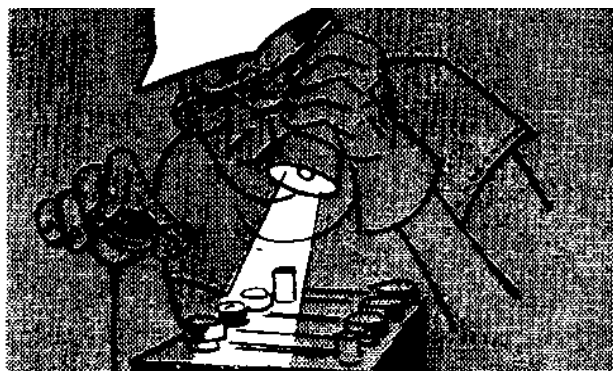


Battery gas can explode. Keep sparks and flames away from batteries. Use a flashlight to check battery electrolyte level.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.



Always remove grounded (-) battery clamp first and replace it last.



-JN-20V-2500  
T3131

O53,EXPLO -19-29JAN86

**CAUTION:** Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid the hazard by:

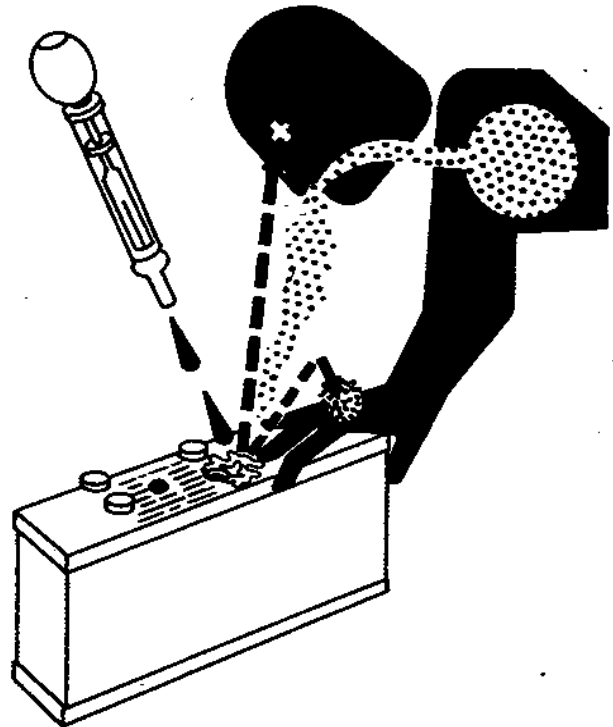
1. Filling batteries in a well-ventilated area.
2. Wearing eye protection and rubber gloves.
3. Avoiding breathing fumes when electrolyte is added.
4. Avoiding spilling or dripping electrolyte.
5. Use proper jump start procedure.

If you spill acid on yourself:

1. Flush your skin with water.
2. Apply baking soda or lime to help neutralize the acid.
3. Flush your eyes with water for 10—15 minutes. Get medical attention immediately.

If acid is swallowed:

1. Drink large amounts of water or milk.
2. Then drink milk of magnesia, beaten eggs, or vegetable oil.
3. Get medical attention immediately.



TS2200 -JUN-2014J55d3

O53,ACID -19-29JAN86

### SERVICE TIRES SAFELY

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

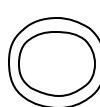
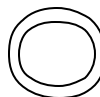
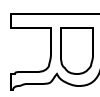
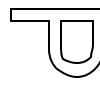
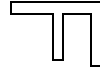
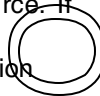
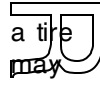
When sealing tire beads on rims, never exceed 35 psi (241 kPa) (2.4 bar) or maximum inflation pressures specified by tire manufacturers for mounting tires.

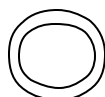
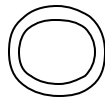
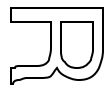
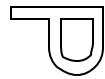
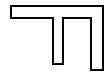
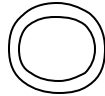
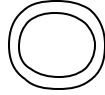
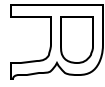
Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, relubricate bead and reinflate.

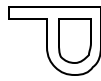


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-JN-237-J533  
O53-TIRE4

O53,TIRE4 -19-21APR86

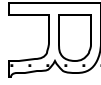
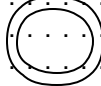
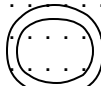




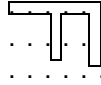


### 570 SKID-STEER LOADER

#### ENGINE

Manufacturer		Teledyne Continental
Model		TM13
Cylinders		2
Bore and stroker		3.58 x 4.06 in. (91 x 103.2 mm)
Displacement		81.9 in. <sup>3</sup> (1342 cm <sup>3</sup> )
Fast idle		2800 rpm
Slow idle		1000 rpm
Horsepower		31 at 2800 rpm
Intake valve clearance (cold)		0.014 in. (0.35 mm)
Exhaust valve clearance (cold)		0.018 in. (0.46 mm)
Spark plug		Champion RN9YC
Spark Plug gap		0.035 in. (0.89 mm)
Spark plug torque		30 lb-ft (41 N·m)
Gradability (maximum angle for engine operation on intermittent basis)		45° all directions

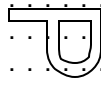
#### CAPACITIES

Engine oil with filter		5 qt (4.7 L)
Fuel tank		10 gal (38 L)
Cooling system		6 qt (5.7 L)
Hydraulic system		15 gal (57 L)


#### ELECTRICAL SYSTEM

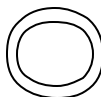
Battery		12 V, cold cranking capacity: 445 amps at 0°F (-18°C)
Alternator		37 amp
Circuit breaker		20 amp

#### HYDROSTATIC TRANSMISSION

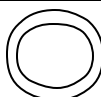
Manufacturer		Cessna
Charge filter		10 micron
Relief pressure		4000 psi (276 bar) (27 580 kPa)
Warning light pressure setting		50 psi (3.5 bar) (350 kPa)

#### HYDRAULIC SYSTEM

Relief pressure		2000 psi (138 bar) (13 790 kPa)
Pump manufacturer		Cessna
Return filter		10 micron
Suction screen		100 mesh
Pump output		8.2 gpm (31 L/min) at 2800 rpm




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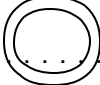
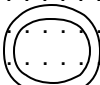


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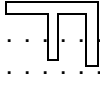
**LIFT ARM CYLINDERS**

Type .....		Double-acting
Bore 1-1/2 in. (38 mm)		
Stroke .....		33 in. (840 mm)
Rod size .....		1-1/4 in. (32 mm)
Breakout force .....		1800 lb (816 kg)

**BUCKET CYLINDER**

Type .....		Double-acting
Bore .....		3 in. (76 mm)
Stroke .....		9-1/2 in. (240 mm)
Rod size .....		1-1/2 in. (38 mm)
Breakout force .....		1950 lb (885 kg)
Raising time with SAE operating load .....		4 sec
Dumping time with SAE operating load .....		1.7 sec
Lowering time empty .....		2.7 sec
Retract time empty .....		1.8 sec
Maximum reach .....		29 in. (740 mm)

**TIRE SIZES AND PRESSURES**

5.70 X 15 (4-ply tubeless) .....		50 psi (3.5 bar) (350 kPa)
27 x 8.50 x 15 (6-ply tubeless) .....		40 psi (2.8 bar) (280 kPa)
27 x 10.50 x 15 (6-ply tubeless) .....		40 psi (2.8 bar) (280 kPa)
Wheel bolt torque .....		150 lb-ft (200 N·m)



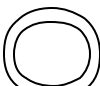
**TRAVEL SPEEDS**

(Forward and Reverse) ..... 0—7.5 mph (11.2 km/h)

**OPERATING WEIGHT**

..... 3340 lb (1515 kg)

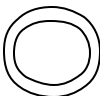
**BUCKET CAPACITIES AND WEIGHTS**

Bucket size in. (M)	Struck Capacity cu. ft. (M <sup>3</sup> )		Heaped Capacity cu. ft. (M <sup>3</sup> )	Weight lbs. (kg)
*47 (1.19) utility bucket	8.8 (0.25)		11.0 (0.31)	231 (105)
54 (1.37) dirt and foundry bucket	7.5 (0.21)		9.5 (0.27)	256 (116)
54 (1.37) utility bucket	10.2 (0.29)		12.7 (0.34)	254 (115)
60 (1.52) utility bucket	11.3 (0.32)		14.1 (0.40)	272 (123)
60 (1.52) low profile bucket	6.4 (0.18)		8.4 (0.24)	289 (131)
66 (1.68) light materials bucket	12.5 (0.35)		15.6 (0.44)	298 (135)

\*Use with 5.70 x 15 tires only.

(Specifications and design subject to change without notice.)

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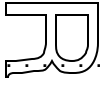
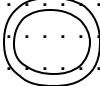





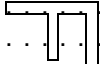
10  
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3

## 575 SKID-STEER LOADER

### ENGINE

Manufacturer .....		Yanmar
Model .....		3TNA82RJL Diesel
Cylinders .....		3
Bore and stroke .....		3.23 x 3.39 in. (82 x 86 mm)
Displacement .....		83.1 in. <sup>3</sup> (1362 cm <sup>3</sup> )
Fast idle .....		2950 rpm
Slow idle .....		950 rpm
Horsepower (mfg. rating) .....		33 at 3600 rpm (24.6 kW)
Operating horsepower .....		28.7 at 2800 rpm (21.4 kW)
Intake valve clearance (cold) .....		0.014 in. (0.35 mm)
Exhaust valve clearance (cold) .....		0.018 in. (0.46 mm)
Gradability (maximum angle for engine operation on intermittent basis) .....		45° all directions


### CAPACITIES

Engine oil with filter .....		6.4 qt (6 L)
Fuel tank .....		10 gal (38 L)
Cooling system .....		6 qt (5.7 L)
Hydraulic system .....		15 gal (57 L)


### ELECTRICAL SYSTEM

Battery .....		12 V, cold cranking capacity: 445 amps at 0°F (-18°C)
Alternator .....		37 amp
Circuit breaker .....		20 amp

### HYDROSTATIC TRANSMISSION

Manufacturer .....		Cessna
Charge filter .....		10 micron
Relief pressure .....		4000 psi (276 bar) (27 580 kPa)
Warning light pressure setting .....		50 psi (3.5 bar) (350 kPa)

### HYDRAULIC SYSTEM

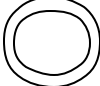
Relief pressure .....		2000 psi (138 bar) (13 790 kPa)
Pump manufacturer .....		Cessna
Return filter .....		10 micron
Suction screen .....		100 mesh
Pump output .....		8.2 gpm (31 L/min) at 2800 rpm
Displacement .....		0.66 cu in. per rev (10.8 cm <sup>3</sup> )

### SAE RATED LOAD LIMIT

..... 1200 LB (544 KG)


### DIMENSIONS—575 Skid-Steer Loader with 54-in. (1372 mm) bucket and 27 x 8.50 x 15 tires

Overall length .....		116-1/2 in. (2959 mm)
Overall width .....		54 in. (1372 mm)
Maximum height, bucket raised .....		126 in. (3200 mm)
Height to top of cab .....		171-3/4 in. (1822 mm)





10-10-4

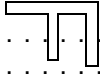
**LIFT ARM CYLINDERS**

Type .....		Double-acting
Bore .....		
Stroke .....		33 in. (840 mm)
Rod size .....		1-1/4 in. (32 mm)
Breakout force .....		1800 lb (816 kg)

**BUCKET CYLINDER**

Type .....		Double-acting
Bore .....		3 in. (76 mm)
Stroke .....		9-1/2 in. (240 mm)
Rod size .....		1-1/2 in. (38 mm)
Breakout force .....		1950 lb (885 kg)
Raising time with SAE operating load .....		4 sec
Dumping time with SAE operating load .....		1.7 sec
Lowering time empty .....		2.7 sec
Retract time empty .....		1.8 sec
Maximum reach .....		29 in. (740 mm)

**TIRE SIZES AND PRESSURES**

5.70 X 15 (4-ply tubeless) .....		50 psi (3.5 bar) (350 kPa)
27 x 8.50 x 15 (6-ply tubeless) .....		40 psi (2.8 bar) (280 kPa)
27 x 10.50 x 15 (6-ply tubeless) .....		40 psi (2.8 bar) (280 kPa)
Wheel bolt torque .....		150 lb-ft (200 N·m)

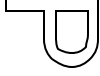


**TRAVEL SPEEDS**

(Forward and Reverse) ..... 0—7.5 mph (11.2 km/h)

**OPERATING WEIGHT**

..... 3340 lb (1515 kg)

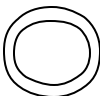
**BUCKET CAPACITIES AND WEIGHTS**

Bucket size in. (M)	Struck Capacity cu. ft. (M <sup>3</sup> )		Heaped Capacity cu. ft. (M <sup>3</sup> )	Weight lbs (kg)
*47 (1.19) utility bucket	8.8 (0.25)		11.0 (0.31)	231 (105)
54 (1.37) dirt and foundry bucket	7.5 (0.21)		9.5 (0.27)	256 (116)
54 (1.37) utility bucket	10.2 (0.29)		12.7 (0.34)	254 (115)
60 (1.52) utility bucket	11.3 (0.32)		14.1 (0.40)	272 (123)
60 (1.52) low profile bucket	6.4 (0.18)		8.4 (0.24)	289 (131)
66 (1.68) light materials bucket	12.5 (0.35)		15.6 (0.44)	298 (135)

\*Use with 5.70 x 15 tires only.

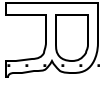
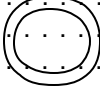
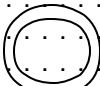
(Specifications and design subject to change without notice.)

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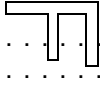


## 375 SKID-STEER LOADER


### ENGINE

Make and model		Yanmar 3TN66
Cooling system		Water Cooled
Fuel		Diesel
Cylinders		3
Horsepower at governed rpm		17 hp @ 3400 rpm (12.7 kW)
Bore		2.6 in. (66 mm)
Stroke		2.53 in. (64.2 mm)
Displacement		41.8 cu in (.658 L)
RPM speeds:		
Fast (no load)		3600 to 3670 rpm
Slow (no load)		1400 to 1500 rpm
Fuel tank capacity		6 U.S. gal. (22.7 L)
Crankcase capacity		2.5 qt. (2.4 L)
Cooling capacity		4.6 qt. (4.4 L)

### ELECTRICAL SYSTEM

Alternator		20 amp
Battery cold capacity amps at 0°F (-18°C)		390 amps
Battery		BCI-71, 12 V
Regulator		Solid state

### TRANSMISSION

Type		Hydrostatic
Manufacturer		
—Pumps		Sundstrand
—Motors		Nichols 130 Series
Pump type		Axial piston, variable swash plate
Motor type		Geroller motor
Filter		10 micron (no by-pass)
Capacity		9 U.S. gal (34 L)

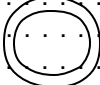
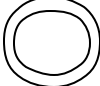
### TRAVEL SPEED

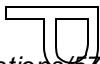
(Forward/Backward) . . . . . 0 to 5.8 mph (0 to 9.3 km/h)

### BOOM CYLINDERS

		Double acting
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### HYDRAULIC SYSTEM

Pump type		Gear
Pump manufacturer		Parker
Output (at governed rpm)		8 gpm (30.2 L/min)
Displacement		13 cm <sup>3</sup> (.512 cu in)
Main system relief pressure		1600 psi (11,032 kPa)
Suction screen		100 mesh
Filter (return side no by-pass)		10 micron
Hydraulic fluid		JD HY-GARD® or equivalent SAE J20A oil

  
General Specifications 575 Skid-Steer Loader

61210

**PERFORMANCE RATING\***

Operating load, SAE (per SAE J818)		675 lb (306 kg)
Tipping load, SAE	.....	1365 lb (619 kg)
Breakout force, (bucket) SAE IEMC	.....	1409 lb (619 kg)
Operating weight, SAE	.....	2200 lb (998 kg)

**SHIPPING WEIGHT**

Without attachments		1750 lb (794 kg)
---------------------	---	------------------

**CYCLE TIMES (SECONDS)**

Boom raised	.....	5.5 seconds
Boom lowered	.....	3.4 seconds
Bucket rollback	.....	1.9 seconds
Bucket dumping		0.9 seconds

**TIRE PRESSURE**

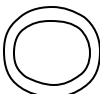
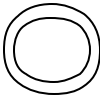
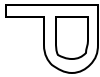
5.70x12	.....	50 psi (345 kPa)
23x8.50-12	.....	35 psi (240 kPa)

*\*Performance ratings taken with:*

- Full fuel tank, 175 lb operator
- 42-in. (106.7 cm) utility bucket
- 8.50x12-in. tires

*(Specifications and design subject to change without notice.)*

M21,1010U,F -19-10OCT86



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