

327, 328
336, 337, 338
346, 347, 348
466, 467, 468
Square Balers

John Deere Ottumwa Works
TM1243 (25APR01)


LITHO IN U.S.A.
ENGLISH

Introduction

FOREWORD

This manual is written for an experienced technician. Essential tools required in performing certain service work are identified in this manual and are recommended for use.

Live with safety: Read the safety messages in the introduction of this manual and the cautions presented throughout the text of the manual.

 This is the safety-alert symbol. When you see this symbol on the machine or in this manual, be alert to the potential for personal injury.

The technical manual contains two types of information: diagnostics and repair. Diagnostic groups help you identify the majority of routine failures quickly. Repair groups tell how to repair the components.

Information is organized in groups for the various components requiring service instruction. At the beginning of each group are summary listings of all applicable essential tools, service equipment and tools, other materials needed to do the job, service parts kits, specifications, wear tolerances, and torque values.

Binders, binder labels, and tab sets can be ordered by John Deere dealers direct from the John Deere Distribution Service Center.

This manual is part of a total product support program.

FOS MANUALS—REFERENCE

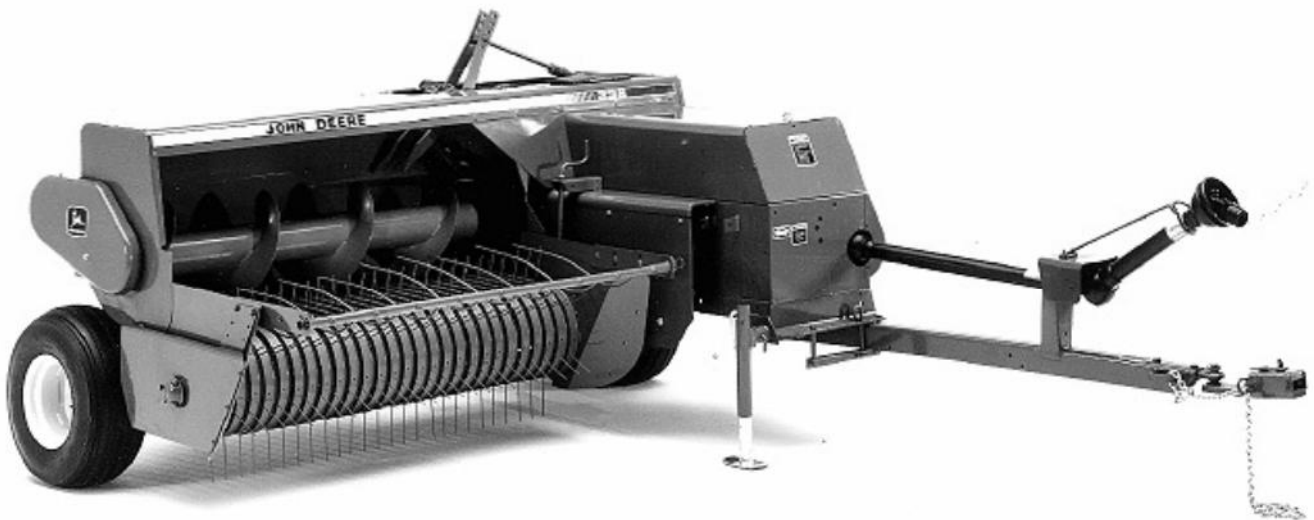
TECHNICAL MANUALS—MACHINE SERVICE

COMPONENT MANUALS—COMPONENT SERVICE

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

Technical Manuals are concise guides for specific machines. Technical manuals are on-the-job guides containing only the vital information needed for diagnosis, analysis, testing, and repair.

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



Model 338 Square Baler

EX, TM1243, IFC -19-13APR95

Dealer Presentation Sheet

JOHN DEERE DEALERS

IMPORTANT: Please remove this page and route through your service department.

This is a revision of Section 40 for TM1243, Square Balers.

Listed below is a brief explanation of what was changed.

1. The information on the adjustment of the stationary knife.
2. The information on the adjustment of the plungerhead.

EX, TM1243, DLR -19-13APR95

Dealer Presentation Sheet

Contents

SECTION 10—GENERAL

- Group 05—Safety
- Group 10—Specifications
- Group 15—General Information
- Group 20—Lubrication

SECTION 20—POWER TRAIN

- Group 05—Diagnosing Malfunctions
- Group 10—General Information
- Group 15—PTO Hookup and Connections
- Group 20—PTO Hookup Shaft and Tube
- Group 25—PTO Hookup U-Joints
- Group 30—Powershaft
- Group 35—Slip Clutch
- Group 40—Gear Case
- Group 45—Flywheel
- Group 50—Shear Bolts

SECTION 30—HYDRAULIC SYSTEM

- Group 05—Diagnosing Malfunctions
- Group 10—Pickup Cylinder
- Group 15—Bale Tension Pump and Reservoir
- Group 20—Bale Tension Cylinders
- Group 25—Tongue Positioning Cylinder

SECTION 40—BALE FORMING COMPONENTS

- Group 05—Diagnosing Malfunctions
- Group 10—Cam and Followers
- Group 15—Pickup
- Group 20—Auger
- Group 25—Feeder Fingers/Timing
- Group 30—Plungerhead

SECTION 50—KNOTTERS AND TWISTERS

- Group 05—Diagnosing Malfunctions
- Group 10—Twine Knotters
- Group 15—Wire Twisters
- Group 20—Multi-Luber Repair

Index

All information, illustrations and specifications in this 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.

TM1243-19-25APR01

COPYRIGHT© 1995
DEERE & COMPANY
Moline, Illinois
All rights reserved
A John Deere ILLUSTRATION® Manual
Previous Editions
Copyright 1992 Deere & Company

**Thanks very much for your reading,
Want to get more information,
Please click here, Then get the complete
manual**

JustClickHere 

NOTE:

**If there is no response to click on the link above,
please download the PDF document first, and then
click on it.**

**Have any questions please write to me:
admin@servicemanualperfect.com**

Contents

10

20

30

40

50

INDX

Section 10 GENERAL

10

Contents

Page

Group 05—Safety	10-05-1
Group 10—Specifications	
Cap Screw Torque Values	10-10-7
Group 15—General Information	
Baler Description	
336, 346 and 466	10-15-1
327, 337, 347 and 467	10-15-2
328, 338, 348 and 468	10-15-3
Prevent Knotter Damage	10-15-4
Group 20—Lubrication	
Before Lubrication	10-20-1
Extreme Pressure or Multipurpose	
Grease	10-20-1
Gear Oil	10-20-2
Multiluber Grease	10-20-2
Transmission, Hydraulic and Gear Case	
Oil	10-20-3
Alternative Lubricants	10-20-3

HANDLE FLUIDS SAFELY—AVOID FIRES

When you work around fuel, do not smoke or work near heaters or other fire hazards.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.



DX,FLAME -19-04JUN90

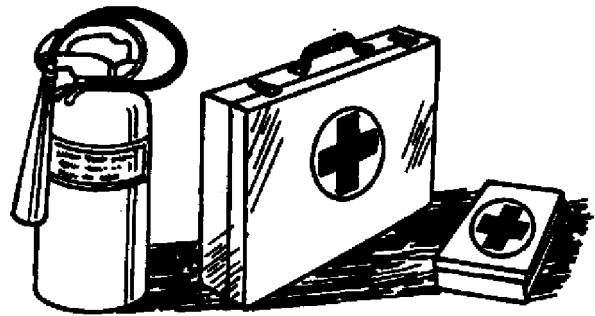
10
05
-UN-23AUG88
TS227

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.



DX,FIRE2 -19-03MAR93

-UN-23AUG88
TS291

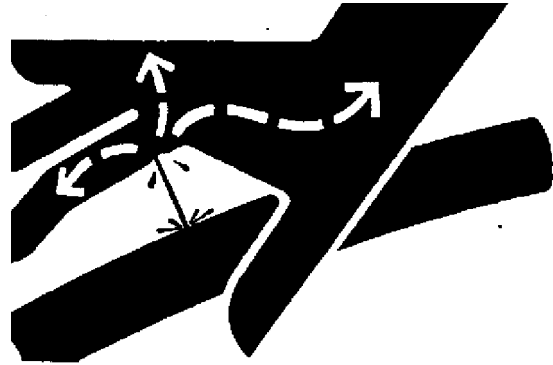
AVOID HIGH-PRESSURE FLUIDS

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 should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.



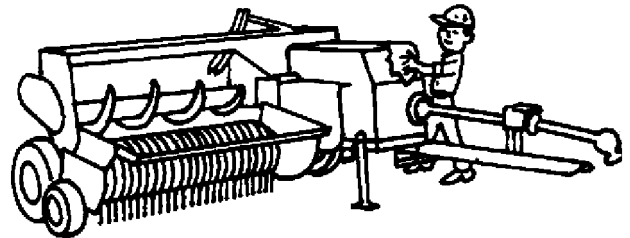
X9811 -UN-23AUG88

DX,FLUID -19-03MAR93

PARK MACHINE SAFELY

Before servicing, cleaning, adjusting, removing material, or hitching wagon to baler, always:

1. Disengage all power.
2. Shut off engine.
3. THEN WAIT until all moving parts have stopped moving.



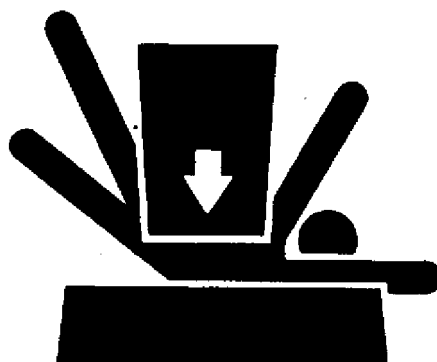
E18763 -UN-13APR89

EX,1243,1005,A -19-23JUN92

SUPPORT MACHINE PROPERLY

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



DX,LOWER -19-04JUN90

TS229 -UN-23AUG88

10
35

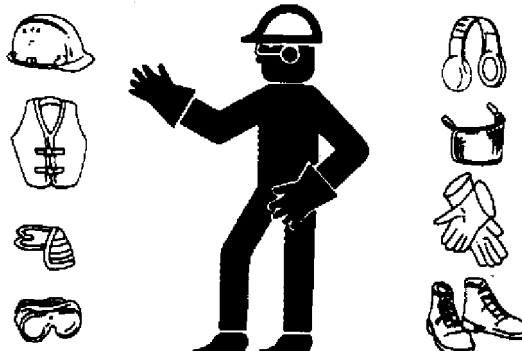
WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

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.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



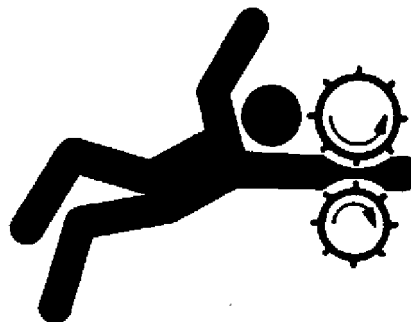
DX,WEAR -19-10SEP90

TS206 -UN-23AUG88

SERVICE MACHINES SAFELY

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing, or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



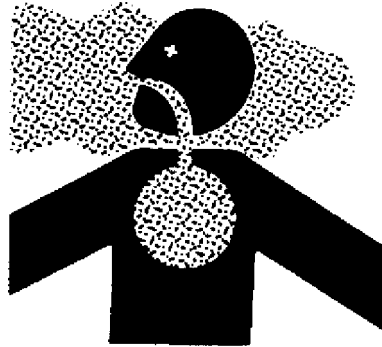
DX,LOOSE -19-04JUN90

TS228 -UN-23AUG88

WORK IN VENTILATED AREA

Engine exhaust fumes can cause sickness or death. If it is necessary to run an engine in an enclosed area, remove the exhaust fumes from the area with an exhaust pipe extension.

If you do not have an exhaust pipe extension, open the doors and get outside air into the area.



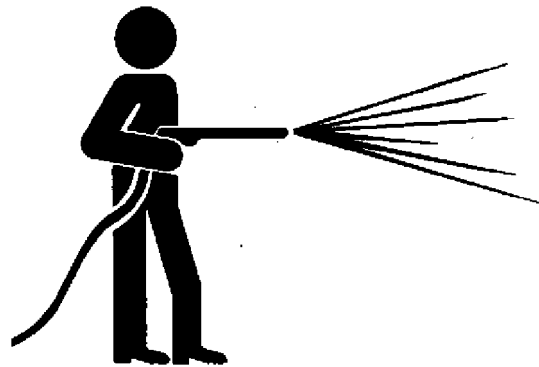
DX,AIR -19-04JUN90

TS220 -UN-23AUG88

WORK IN CLEAN AREA

Before starting a job:

- Clean work area and machine.
- Make sure you have all necessary tools to do your job.
- Have the right parts on hand.
- Read all instructions thoroughly; do not attempt shortcuts.



DX,CLEAN -19-04JUN90

T6642EJ -UN-18OCT88

REMOVE PAINT BEFORE WELDING OR HEATING

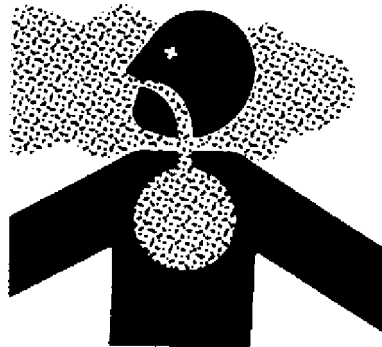
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



DX,PAINT -19-03MAR93

TS220 -UN-23AUG88

AVOID HEATING NEAR PRESSURIZED FLUID LINES

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area.



DX,TORCH -19-03MAR93

TS953 -UN-15MAY90

PN=10

ILLUMINATE WORK AREA SAFELY

Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.

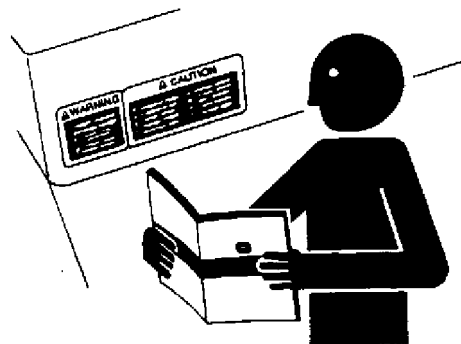


DX,LIGHT -19-04JUN90

TS223 -UN-23AUG88

REPLACE SAFETY SIGNS

Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.



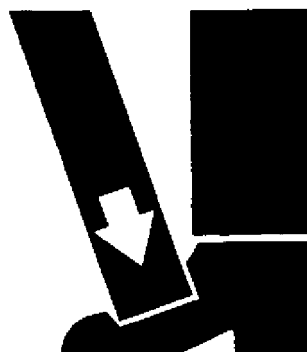
DX,SIGNS1 -19-04JUN90

TS201 -UN-23AUG88

USE PROPER LIFTING EQUIPMENT

Lifting heavy components incorrectly can cause severe injury or machine damage.

Follow recommended procedure for removal and installation of components in the manual.



DX,LIFT -19-04JUN90

TS226 -UN-23AUG88

SERVICE TIRES SAFELY

Explosive separation of a tire and rim parts can cause serious injury or death.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.



-UN-12APR90

TS952

DX,TIRECP -19-24AUG90

PRACTICE SAFE MAINTENANCE

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing from power-driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.

Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.



-UN-23AUG88

TS218

DX,SERV -19-03MAR93

USE PROPER TOOLS

Use tools appropriate to the work. Makeshift tools and procedures can create safety hazards.

Use power tools only to loosen threaded parts and fasteners.

For loosening and tightening hardware, use the correct size tools. DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only service parts meeting John Deere specifications.



DX,REPAIR -19-04JUN90

10
05
7
-UN-08NOV69
T5779

DISPOSE OF WASTE PROPERLY

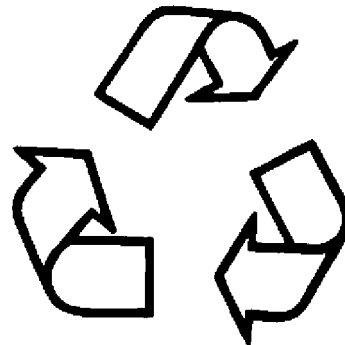
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your John Deere dealer.



DX,DRAIN -19-03MAR93

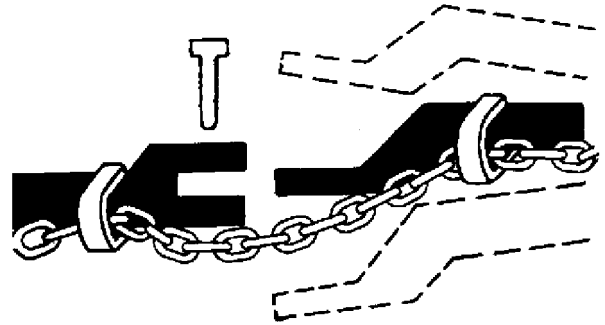
-UN-26NOV90
T51133

USE A SAFETY CHAIN

A safety chain will help control drawn equipment should it accidentally separate from the drawbar.

Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning.

See your John Deere dealer for a chain with a strength rating equal to or greater than the gross weight of the towed machine. Do not use safety chain for towing.



TS217 -UN-23AUG88

DX.CHAIN -19-03MAR93

LIVE WITH SAFETY

Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.



TS231 -19-07OCT88

DX.LIVE -19-25SEP92

SPECIFICATIONS

Item	Measurement	Specification
Bale	Cross Section 327, 328, 336, 337, 338, 346, 347, 348	360 x 460 mm (14 x 18 in.)
	466, 467, 468	400 x 460 mm (16 x 18 in.)
	Length Adjustment (All)	310—1270 mm (12—50 in.)
	Type Twine (All)	ASAE Standard, various types and sizes, sisal and plastic.
	Wire 336, 337, 338, 346, 347, 348, 466, 467	14-1/2 gauge, ASAE Standard
Pickup	Inside Width 327	1372 mm (54 in.)
	336	1422 mm (56 in.)
	328, 337, 338, 347, 348, 467, 468 346, 466	1627 mm (64 in.)
	Width On Flare 336	1549 mm (61 in.)
	346,466	1803 mm (71 in.)
	327	1627 mm (64 in.)
	328, 337, 338, 347, 348, 467, 468	1880 mm (74 in.)
	Width Between Outer Teeth 336	1160 mm (45-5/8 in.)
	327	1283 mm (50-1/2 in.)
	346, 466	1404 mm (55-1/4 in.)
	328, 337, 338, 347, 348, 467, 468	1524 mm (60 in.)

Continued on next page

Specifications

Item	Measurement	Specification
	Cylinder Diameter (All)	345 mm (13.5 in.)
	Number of Teeth	
	336	40
	327	88
	328	104
	337, 338, 347, 348, 467, 468	156
	346, 466	72
	Number of Tooth Bars	
	327, 328, 336	4
	337, 338, 346, 347 348, 466, 467, 468	6
	Space Between Teeth (All)	60 mm (2-3/8 in.)
	Height Adjustment Range (All)	Crank, 127 mm (5 in.)
Auger	Diameter (All)	407 mm (16 in.)
	Length	
	327, 328, 336	1300 mm (51 in.)
	337, 338, 346, 347, 348, 466, 467, 468	1550 mm (61 in.)
	Feed Opening Size	
	327, 328, 337, 338, 347, 348	1864.5 cm ² (289 in ² .)
	466, 467, 468	2129 cm ² (330 in ² .)
Plungerhead	Stroke Length (All)	762 mm (30 in.)
	Normal Speed (under load)	
	327, 328, 336, 337, 338, 346	80 strokes per minute
	347, 348 468 - (S.N. —844080)	93 Strokes per minute
	466, 467 468 - (S.N. 844081—)	100 Strokes per minute

Continued on next page

Specifications

Item	Measurement	Specification
Flywheel	Diameter (All)	686 mm (27 in.)
	Weight 327, 328, 336, 337, 338	103 kg (227 lb)
	346, 347, 348, 466, 467, 468	134 kg (295 lb)
Compression Chamber	Length 336	1118 mm (44 in.)
	327, 328, 337, 338, 346, 347, 348	1168 mm (46 in.)
	466, 467, 468	1473 mm (58 in.)
PTO Shaft	Speed (All)	ASAE-SAE Standard 540 rpm
	Size 327, 328, 336	Category 3
	337, 338, 346	Category 4
	347, 348	Category 4 or optional Category 5
	466, 467, 468	Category 5
Gear Case	Gears (All)	Steel cut, enclosed and/or precision forged
	Capacity (All)	3.8 L (qt) SAE 85—140 API- GL5 Gear Lubricant
Tractor Requirement (Use a larger tractor if wagon is pulled.)	Recommended Size 327, 328, 336, 337, 338, 346, 347, 348	30 kW (40 hp) minimum
	466, 467, 468	45 kW (60 hp) minimum

Continued on next page

Specifications

Item	Measurement	Specification
10 10 4 Tires	Standard 327, 336, 346, Right	5.00-15 4PR 207 kPa (2.1 bar) (30 psi)
	328 Right	5.90-15 4PR 207 kPa (2.1 bar) (30 psi)
	337, 338, 347, 348, 466, 467, 468 Right	26 x 12.00-12 4PR 138 kPa (1.4 bar) (20 psi)
	327, 328, 336 Left	6.40-15 6PR 276 kPa (2.4 bar) (40 psi)
	346 Left	7.60-15 6PR 207 kPa (2.1 bar) (30 psi)
	337, 338, 347, 348 Left	11 L-14 6PR 207 kPa (2.1 bar) (30 psi)
	466, 467, 468 Left	31 x 13.50-15 6PR 207 kPa (2.1 bar) (30 psi)
	Floatation 327, 328, 336, 346, Right	26 x 12.00-12 4PR 138 kPa (1.4 bar) (20 psi)
	327, 328, 336, 346 Left	11L-14 6PR 207 kPa (2.1 bar) (30 psi)
	Pickup Gauge Wheel Optional 336, 346	3.00-12 Semi-Pneumatic
	Optional 327, 328 337, 338, 347, 348	16 x 6.50-8 2PR 138 kPa (1.4 bar) (20 psi)
	Standard 466	4.00-8 4PR 138 kPa (1.4 bar) (20 psi)
	Standard 467, 468	16 x 6.50-8 2PR 138 kPa (1.4 bar) (20 psi)
	Overall Dimensions	Maximum Height 327, 328, 336, 337, 338, 346, 347, 348
466, 467, 468		1880 mm (74 in.)

Continued on next page

Specifications

Item	Measurement	Specification
	Width	
	336	2438 mm (96 in.)
	327 (Std. tires)	2490 mm (98 in.)
	327 (Float. tires)	2540 mm (100 in.)
	328 (Std. tires)	2692 mm (106 in.)
	328 (Float. tires), 337 338, 346, 347, 348 (Std. tires)	2743 mm (108 in.)
	466	3023 mm (119 in.)
	467, 468 (Std. tires)	3073 mm (121 in.)
	Length	
	327, 328 With bale chute and 2-joint hitch	5029 mm (198 in.)
	336, 346 with bale chute and tongue	5740 mm (226 in.)
	337, 338, 347, 348 With bale chute and 3-joint hitch	5766 mm (227 in.)
	466, 467, 468 With bale chute and 3-joint hitch	6096 mm (240 in.)
	336, 346 less tongue and bale chute	3378 mm (133 in.)
	327, 328, 337, 338, 347, 348 Less tongue and bale chute	3404 mm (134 in.)
	466, 467, 468 Less tongue and bale chute	3759 mm (148 in.)
Weight	Twine Units	
	327, 328 Minimum	1108 kg (2441 lb)
	327, 328 Maximum	1239 kg (2728 lb)
	336 Maximum	1120 kg (2470 lb)
	337, 338 Minimum	1273 kg (2805 lb)
	337, 338 Maximum	1349 kg (2972 lb)
	346 Maximum	1325 kg (2920 lb)
	347, 348 Minimum	1412 kg (3110 lb)
	347, 348 Maximum	1507 kg (3320 lb)
	466 Maximum	1497 kg (3300 lb)
	467, 468 Minimum	1680 kg (3700 lb)
	467, 468 Maximum	1719 kg (3786 lb)

Continued on next page

10
10
5

Specifications

10
10
6

Item	Measurement	Specification
	Wire Units	
	336 Maximum	1134 kg (2500 lb)
	337, 338 Minimum	1290 kg (2845 lb)
	337, 338 Maximum	1445 kg (3185 lb)
	346 Maximum	1339 kg (2952 lb)
	347, 348 Minimum	1430 kg (3153 lb)
	347, 348 Maximum	1507 kg (3323 lb)
	466 Maximum	1510 kg (3330 lb)
	467 Minimum	1693 kg (3733 lb)
	467 Maximum	1732 kg (3819 lb)

EX,1243,1010,A -19-23JUN92