

200 and 900 Series Cutting Platforms
40 and 90 Series Corn Heads
50 and 50A Series Row Crop Heads

John Deere Harvester Works
TM1581 (03OCT94)

LITHO IN U.S.A.
ENGLISH

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.

Technical manuals are divided in two parts: repair and operation and tests. Repair sections tell how to repair the components. Operation and tests sections help you identify the majority of routine failures quickly.

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.

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

Fundamental service information is available from other sources covering basic theory of operation, fundamentals of troubleshooting, general maintenance, and basic type of failures and their causes.

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

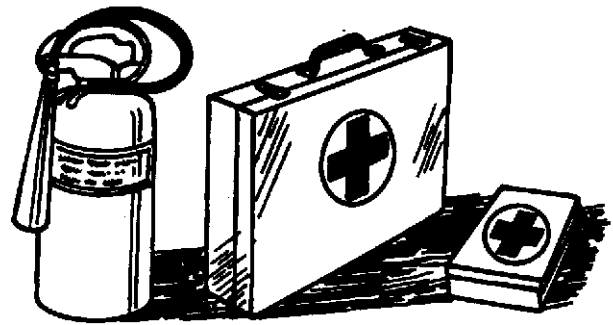
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-JUN-23AUG88
TS227

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

-JUN-23AUG88
TS291

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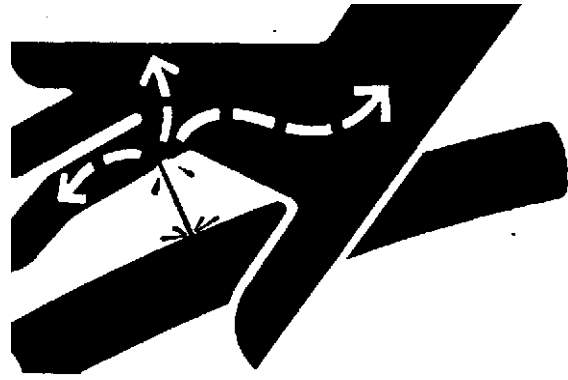
AVOID HIGH-PRESSURE FLUIDS

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.



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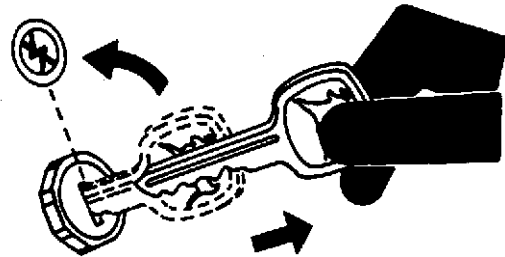
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DX,FLUID -19-03MAR93

PARK MACHINE SAFELY

Before working on the machine:

- Lower all equipment to the ground.
- Stop the engine and remove the key.
- Disconnect the battery ground strap.
- Hang a "DO NOT OPERATE" tag in operator station.



-JUN-24MAY89

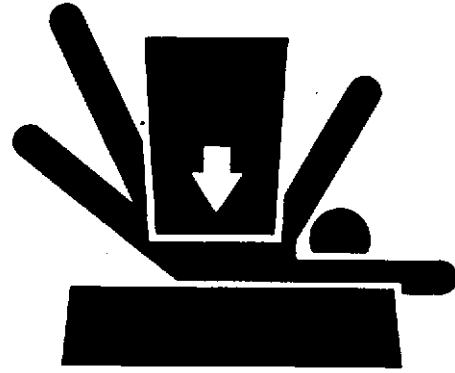
TS230

DX,PARK -19-04JUN90

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

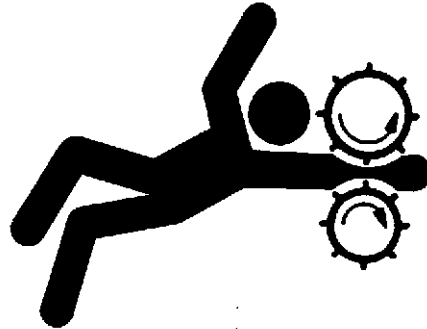
TS229 -JUN-23AUG88

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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.



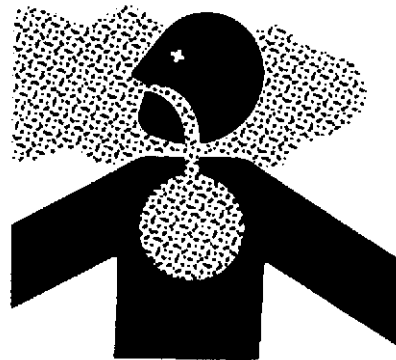
DX,LOOSE -19-04JUN90

TS228 -JUN-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 -JUN-23AUG88

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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.



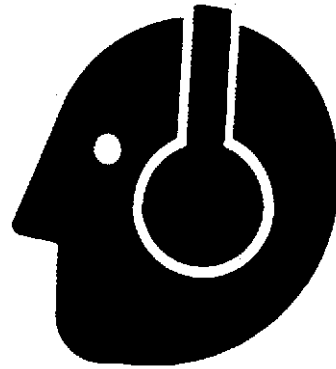
DX,LIGHT -19-04JUN90

TS223 -JUN-23AUG88

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.



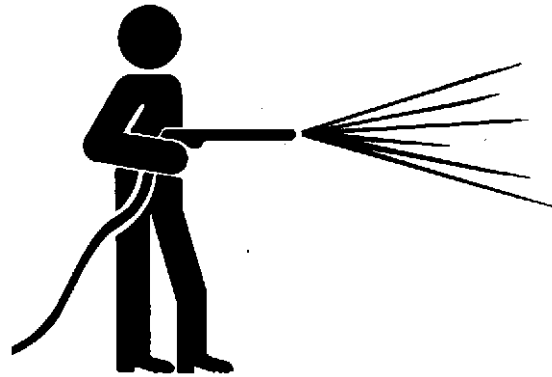
DX,NOISE -19-03MAR93

TS207 -JUN-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

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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

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TS779

DISPOSE OF WASTE PROPERLY

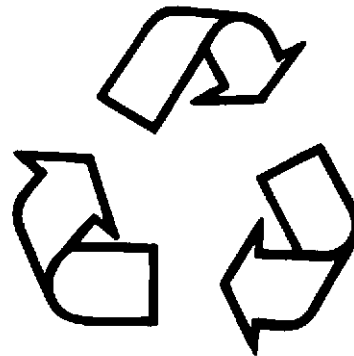
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.

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

-JUN-26NOV90
TS1133

LIVE WITH SAFETY

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



DX,LIVE -19-25SEP92

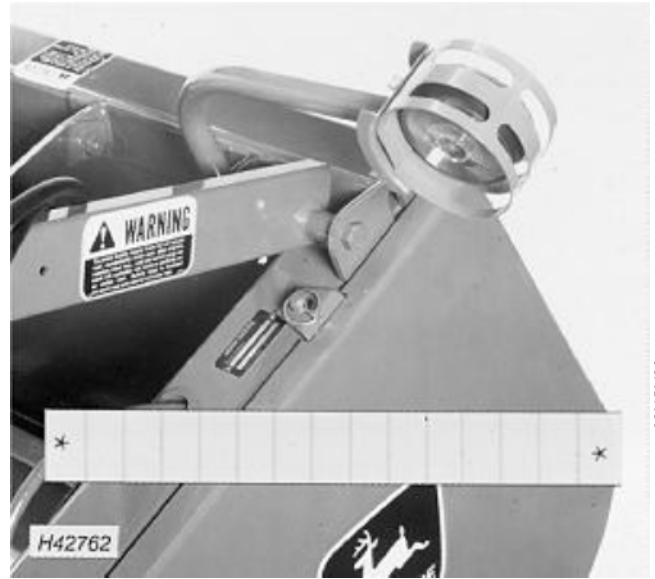
TS231 -19-07OCT88

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SERIAL NUMBER

The serial number is on a plate located on the top left-hand end of the cutting platform.

When ordering parts, always bring the serial number from the serial number plate. This will help your John Deere dealer in giving you fast service.



JUN-09NOV90
H42762

TM1581,10A -19-03OCT94

The serial number is on a plate located on the right-hand end of the row-crop head.

Record your row-crop head serial number in the space provided on the illustration. Provide this serial number to your dealer when ordering parts.



JUN-12JAN91
H42466

TM1581,10B -19-03OCT94

The serial number is on a plate located on the right-hand end of the corn head.

Record your corn head serial number in the space above. Give this serial number to your dealer when ordering parts.



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H42848

TM1581,10C -19-03OCT94

Identification/Serial Number

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200 SERIES PLATFORMS

Specifications given in this manual are intended for service ONLY and do not include normal factory manufacturing tolerances.

(Specifications and design subject to change without notice)

| Rigid Cutterbar Platform Model | Cutting Width | Combine Model |
|---|-------------------------|--|
| 213 | 3 812 mm (12 ft. 6 in.) | 4420, 4425, 6600, 6620, 7700, 7720 |
| 215 | 4 422 mm (14 ft. 6 in.) | 4420, 4425, 6600, 6620, 7700, 7720, 8820 |
| 216 | 4 727 mm (15 ft. 6 in.) | 4420, 4425, 6600, 6620, SideHill, 6620, 7700, 7720, 8820 |
| 218 | 5 336 mm (17 ft. 6 in.) | 4420, 4425, 6600, 6620, 7700, 7720, 8820 |
| 220 | 5 846 mm (19 ft. 6 in.) | 4420, 6600, 6620, 7700, 7720, 8820 |
| 222 | 6 556 mm (21 ft. 6 in.) | 6600, 6620, 7700, 7720, 8820 |
| 224 | 7 165 mm (23 ft. 6 in.) | 6600, 6620, 7700, 7720, 8820 |
| 230 | 8 994 mm (29 ft. 6 in.) | 7700, 7720, 8820 |
| Flex Cutterbar Platform Model | | |
| 213 | 3 812 mm (12 ft. 6 in.) | 4420, 4425, 6600, 6620, 7700, 7720 |
| 215 | 4 422 mm (14 ft. 6 in.) | 4420, 4425, 6620, SideHill, 6620, 7720, 8820 |
| 216 | 4 727 mm (15 ft. 6 in.) | 4420, 4425, 6620, SideHill, 6620, 7720, 8820 |
| 218 | 5 336 mm (17 ft. 6 in.) | 4420, 4425, 6620, 7720, 8820 |
| 220 | 5 846 mm (19 ft. 6 in.) | 4420, 6620, 7720, 8820 |
| 222 | 6 556 mm (21 ft. 6 in.) | 6620, 7720, 8820 |
| 224 | 7 165 mm (23 ft. 6 in.) | 6620, 7720, 8820 |

NOTE: Conversion parts are available to convert 213, 215, 216, 220 and 222 Model platforms for use with the SideHill 6600 and 6620 Combines. The 215 flex and 216 flex and rigid platforms are also available with factory installed parts as noted above.

900 SERIES PLATFORMS

Specifications given in this manual are intended for service only and do not include normal factory manufacturing tolerances.

| Rigid Cutterbar Platform Model | Cutting Width | Gathering Width | Combine Model |
|---|------------------------|------------------------|---|
| 918 | 5334 mm (17 ft. 6 in.) | 5.5 m (18 ft.) | 4435, 6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS |
| 920 and 920 Rice | 5944 mm (19 ft. 6 in.) | 6.1 m (20 ft.) | 6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS |
| 922 and 922 Rice | 6556 mm (21 ft. 6 in.) | 6.7 m (22 ft.) | 6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS |
| 925 and 925 Rice | 7620 mm (25 ft.) | 7.8 m (25 ft. 6 in.) | 6620, 7720, 7722, 8820, 9400, 9500, 9600, SideHill 9500, CTS |
| 930 and 930 Rice | 8992 mm (29 ft. 6 in.) | 9.1 m (30 ft.) | 7720, 8820, 9500, 9600, SideHill 9500, CTS |
| Flex Cutterbar Platform Model | Cutting Width | Gathering Width | Combine Model |
| 913 | 3810 mm (12 ft. 6 in.) | 3.8 m (12 ft. 5 in.) | 4435, 6620, 7720, 9400, 9500, 9600, SideHill 9500, CTS |
| 915 | 4572 mm (15 ft.) | 4.5 m (14 ft. 11 in.) | 4435, 6620 SideHill, 6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS |
| 918 | 5334 mm (17 ft. 6 in.) | 5.3 m (17 ft. 5 in.) | 4435, 6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS |
| 920 | 5944 mm (19 ft. 6 in.) | 5.9 m (19 ft. 5 in.) | 6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS |
| 922 | 6554 mm (21 ft. 6 in.) | 6.6 m (21 ft. 5 in.) | 6620, 7720, 8820, 9400, 9500, 9600 SideHill 9500, CTS |
| 925 | 7620 mm (25 ft.) | 7.6 m (24 ft. 11 in.) | 6620, 7720, 8820, 9400, 9500, 9600, SideHill 9500, CTS |
| 930 | 8992 mm (29 ft. 6 in.) | 9.0 m (29 ft. 5 in.) | 7720, 8820, 9500, 9600 SideHill 9500, CTS |

(Specifications and design subject to change without notice.)

HX1581,1015,AC -19-03OCT94

Specifications

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Cutterbar:

Type Enclosed wobble drive
 Extension (rigid) 102 mm (4 in.) forward and 102 mm (4 in.) rearward 203 mm (8 in.) max.
 Tilt range 9 degrees
 Flexible cutterbar float range 90 mm (3-1/2 in.)
 Cutterbar length 152 mm (6 in.) less than platform width, except for 915 and 925 models
 Knife sections Heavy-duty, overserrated
 Guards Forged steel, heat-treated

Knife Speed: (measured at sheave rpm)

539 cpm on Flexible Platforms
 562 cpm on Rigid Platforms

Reel: (pickup)

Number of slats 6 (with DURA-FLO fingers)
 Diameter 1067 mm (42 in.)

Reel: (slat)

Number of slats 5
 Diameter 1016 mm (40 in.)

Reel Controls:

Height control Hydraulic
 Speed control Hydraulic
 Operating speeds (Pickup 5—44 rpm) (Slat 8—66 rpm)

Platform Auger:

Diameter 610 mm (24 in.)
 Operating speed 169 rpm std. 135 rpm opt.

HX1581,1015,AD -19-03OCT94

918 DRAPER PLATFORM

“Specifications given in this manual are intended for service only and do not include normal factory manufacturing tolerances.”

Combine Models 9500, 9600, 7720 and 8820

Platform Drive Shaft 521 rpm

Cutter Bar

Type Enclosed wobble drive

Cutterbar length 5.33 m (17.5 ft.)

Knife sections Chrome plated, heavy-duty, overserrated

Guards Forged steel heat-treated

Knife Speed (measured
with 521 rpm
backshaft speed) 491 cpm

Pickup Reel

Number of slats 6 (with spring steel fingers)

Diameter 1320 mm (52 in.)

Reel Controls

Height control Hydraulic

Speed control Hydraulic

Operating speeds 3-30 rpm

Auger

Diameter 610 mm (24 in.)

Operating speed 169 rpm

Retractable auger fingers

Number of fingers 12

Diameter 16 mm (5/8 in.)

With break-a-way notch

Reach 152 mm (6 in.)

Torque required to seat

new finger 70 N·m (50 lb-ft) (maximum)

Platform weight 1696 kg (3740 lb)

TM1581, HX15, C -19-03OCT94

40 SERIES CORN HEAD

Specifications given in the manual are intended for service only and do not include normal factory manufacturing tolerances.

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| CORN HEAD MODEL | MACHINE MODEL | NUMBER OF ROWS | CORN HEAD MODEL | MACHINE MODEL | NUMBER OF ROWS |
|-----------------|--|----------------|-----------------|---|----------------|
| 443 | Forage Harvester 4420 Combine 4425 Combine 4435 Combine 6620 Combine | 4 | 644 | 6620 Combine 7720 Combine 8820 Combine 9400 Combine 9500 Combine 9600 Combine CTS Combine | 6 |
| 444 | Forage Harvester 4420 Combine 4425 Combine 6620 Combine SideHill 6620 Combine 7720 Combine 9400 Combine 9500 Combine SideHill 9500 Combine | 4 | 645 | 6620 Combine 7720 Combine 8820 Combine 9400 Combine 9500 Combine 9600 Combine CTS Combine | 6 |
| 546 | 6620 Combine SideHill 6620 Combine 7720 Combine 8820 Combine 9400 Combine 9500 Combine SideHill 9500 Combine 9600 Combine CTS Combine | 5 | 843 | 7720 Combine 8820 Combine 9500 Combine 9600 Combine CTS Combine | 8 |
| 643 | 6620 Combine SideHill 6620 Combine 7720 Combine 8820 Combine 9400 Combine 9500 Combine SideHill 9500 Combine 9600 Combine CTS Combine | 6 | 844 | 8820 Combine 9600 Combine CTS Combine | 8 |
| | | | 1243 | 8820 Combine 9600 Combine | 12 |

Specifications

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| | |
|--|---|
| Gatherer Points | Low profile floating type hinged above gatherer chains |
| Center and Outer Gatherer Sheets | hinged, quick-removable |
| Type of Gatherer Chains | Heavy-duty 555 endless steel roller chain (no master connecting link) |
| Minimum Clearance Between Gatherer Chains and Ground | 32 mm (1-1/4 in.) |
| Row Unit Drive | Enclosed gear box with gears submerged in lubricant; driven by single input hex. shaft |
| Gatherer Chain Adjustment | Spring loaded- self-adjusting |
| Stalk Rolls | Spiral-pointed, flute-type (2 per row unit) |
| Deck Plate Adjustment | Bolt adjusted |
| Slip Clutch | One per row unit plus auger drive |
| Trash Knives | Full length one piece heat-treated steel |

HX1581,1015,AE -19-03OCT94

Specifications

10-15-8

Approximate Overall Width for Storage—

| | |
|------|------------------------|
| 443 | 3454 mm (11 ft. 4 in.) |
| 444 | 3708 mm (13 ft. 6 in.) |
| 546 | 4928 mm (16 ft. 2 in.) |
| 643 | 4928 mm (16 ft. 2 in.) |
| 644 | 5791 mm (19 ft.) |
| 645 | 6096 mm (20 ft.) |
| 843 | 6299 mm (20 ft. 8 in.) |
| 844 | 7820 mm (25 ft. 8 in.) |
| 1243 | 9347 mm (30 ft. 8 in.) |

Approximate Overall Length for Storage—All Corn

| | |
|-------|------------------|
| Heads | 3048 mm (10 ft.) |
|-------|------------------|

Approximate Shipping Weight of Corn Head—(Includes Shipping Skid)

| | |
|------|--------------------|
| 443 | 1129 kg (2488 lb.) |
| 444 | 1184 kg (2610 lb.) |
| 546 | 1472 kg (3245 lb.) |
| 643 | 1590 kg (3505 lb.) |
| 644 | 1855 kg (4090 lb.) |
| 645 | 1901 kg (4190 lb.) |
| 843 | 2243 kg (4944 lb.) |
| 844 | 2470 kg (5466 lb.) |
| 1243 | 3332 kg (7340 lb.) |

(Specifications and design subject to change without notice.)

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