

Cargo Box for 1800 Utility Vehicle



JOHN DEERE

OPERATORS MANUAL

Cargo Box for 1800 Utility
Vehicle

OMMT1068 I6 English

John Deere
Lawn & Grounds Care Division
OMMT1068 I6
North American Version

LITHO IN U.S.A.
ENGLISH



INTRODUCTION

THANK YOU for purchasing a John Deere product.

Read this manual and your vehicle manual thoroughly. Failure to do so could result in personal injury or equipment damage.



This manual should be considered a permanent part of your machine and should remain with the machine when you sell it.

Measurements in this manual are U.S. customary units and their metric equivalents. RIGHT-HAND and LEFT-HAND sides are determined by facing in the direction the machine will travel when going forward.

Product warranty is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual. The product warranty is explained on the warranty certificate you received from your dealer.

Date of Purchase:

Dealer Name:

Phone:



TABLE OF CONTENTS

	Page
Safety Signs	1
Installing	2
Removing	8
Operating	12
Parts	18
Assembly	19
Specifications	31
Index	38
John Deere Service Literature	41

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

COPYRIGHT© 1996
John Deere Horicon Works
All rights reserved
Previous Editions
COPYRIGHT© 1993

NOTES

SAFETY SIGNS

Safety-Alert Symbol

Read and recognize safety information.
Be alert to the potential for personal injury when you see this safety-alert symbol.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards. In this manual, the word CAUTION and this symbol call attention to safety messages.



Machine Safety Labels

(Label appears on the inside and outside of Cargo box)



M71774



(Label appears on the outside of Cargo box)



INSTALLING

SAFETY

Avoid High Pressure Fluids

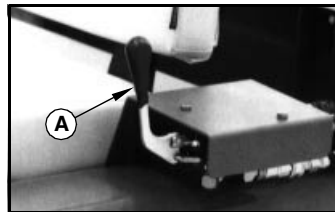


- Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.
- Search for leaks with a piece of cardboard. Protect hands and body from high pressure 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.

Park Vehicle Safely

- Stop vehicle on a level surface, not on a slope.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

IMPORTANT: Move box lift lever (A) back and forth a few times to relieve hydraulic line pressure.

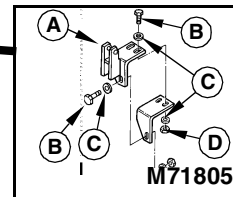
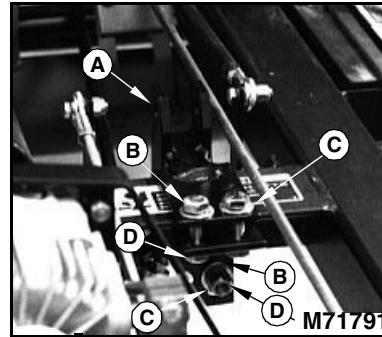


INSTALLING

Installing Cylinder Brackets And Cylinder

NOTE: Install brackets on frame as close to the center of vehicle as possible.

1. Install brackets (A) with three 1/2 x 1-1/2 in. cap screws (B), six 1/2 in. flat washers (C), and three 1/2 in. locknuts (D).

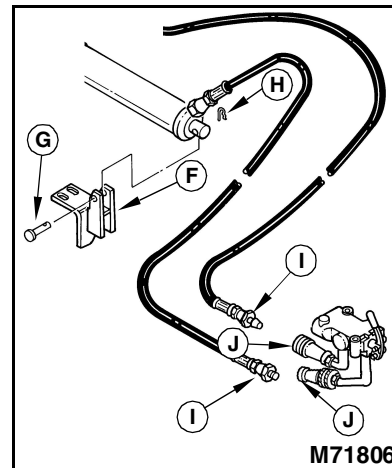


2. Align holes in cylinder end with holes in bracket (F).

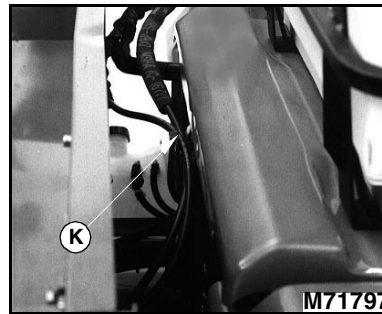
3. Install drilled pin (G) and spring locking pin (H).

4. Route cylinder hoses to control valve.

5. Connect hoses (I) to control valve couplers (J).



6. Secure hoses in hose bracket (K) on frame behind seat.

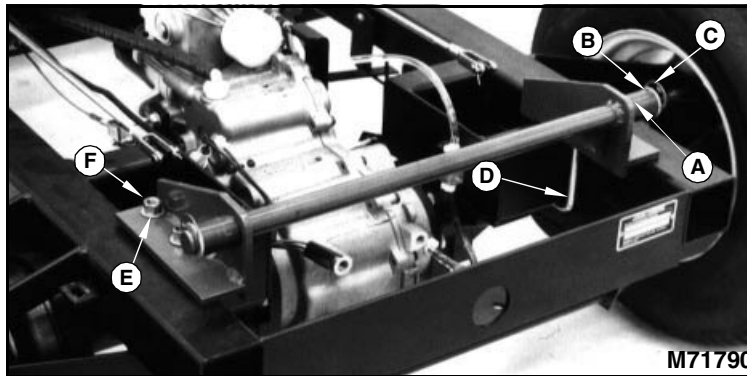


INSTALLING

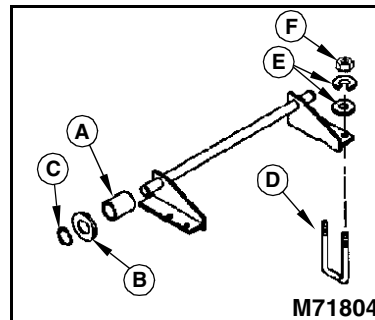
Installing Pivot Bar and Cargo Box

NOTE: For initial box installation, perform Step 1 through Step 5. For subsequent installations, start with Step 7.

1. Install two sleeves (A) and washers (B) on ends of pivot bar. Fasten with two snap rings (C).

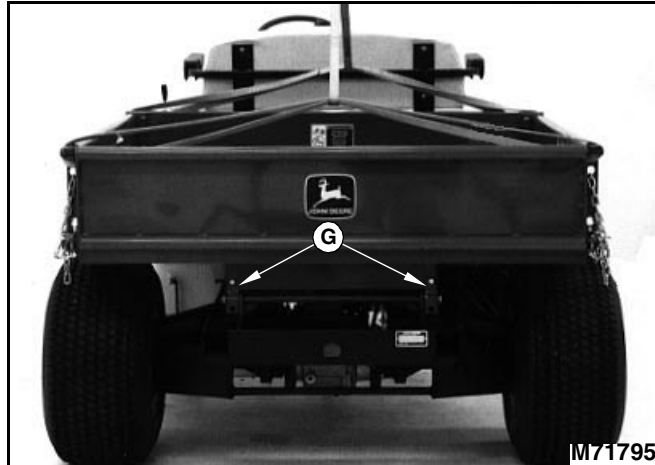


2. Fasten pivot bar with two U-bolts (D), four 1/2 in. flat washers and 1/2 in. lock washers (E), and four 1/2 in. nuts (F).



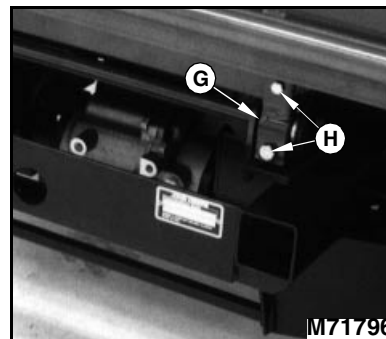
INSTALLING

3. Using a safe lifting device, mount cargo box on vehicle bed:



4. Be sure pivot bar brackets (G) are seated directly over pivot bar sleeves.

5. Install two 1/2 x 2-1/2 in. capscrews (H) and two 1/2 in. locknuts.



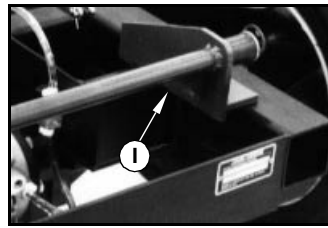
IMPORTANT: Tighten capscrews until pivot bar bracket clamps around pivot bar sleeve.

6. Go to next section, **Connecting Hydraulic Cylinder.**

INSTALLING

7. Install cargo box (for subsequent installations):

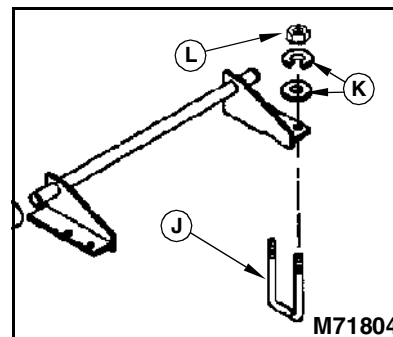
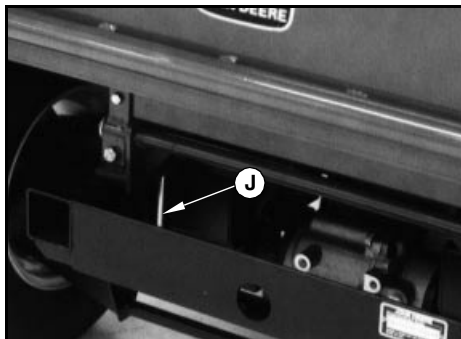
IMPORTANT: When mounting cargo box, be sure both bracket notches (I) are seated properly on frame.



- Using a safe lifting device, mount cargo box on vehicle bed.



- Fasten pivot bar to vehicle frame with two U-bolts (J), four 1/2 in. flat washers and 1/2 in. lock washers (K), and four 1/2 in. nuts (L).



INSTALLING

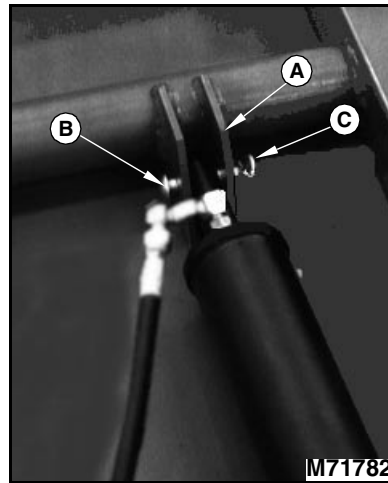
Connecting Hydraulic Cylinder



CAUTION: To avoid injury, connect cylinder from under right hand side of vehicle. DO NOT lift box to connect cylinder.

NOTE: Photo taken with box upside down for photo clarity.

1. Align holes in long end of cylinder with holes in box bracket (A).
2. Fasten with drilled pin (B) and spring locking pin (C).



IMPORTANT: After you have operated the box a few times, check the hydraulic oil level. (See vehicle Operator's Manual.) Add oil if necessary.

REMOVING

SAFETY

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.

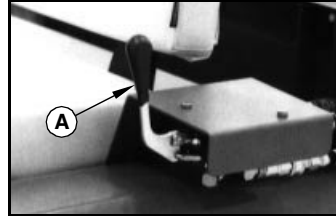
Park Vehicle Safely

- Stop vehicle on a level surface, not on a slope.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

REMOVING

Disconnecting Hydraulic Cylinder

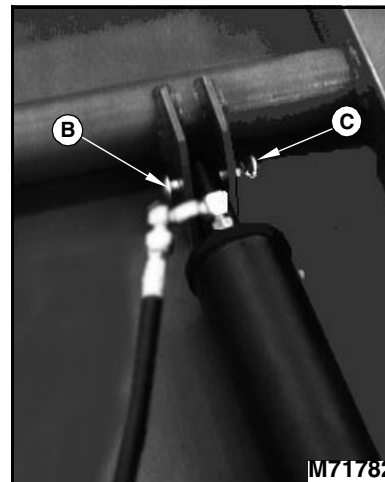
IMPORTANT: Move box lift lever (A) back and forth a few times to relieve hydraulic line pressure.



CAUTION: To avoid injury, disconnect cylinder from under right hand side of vehicle. **DO NOT** lift box to disconnect cylinder.

NOTE: Photo taken with cargo box upside down for photo clarity.

1. Remove spring locking pin (C) and drilled pin (B).



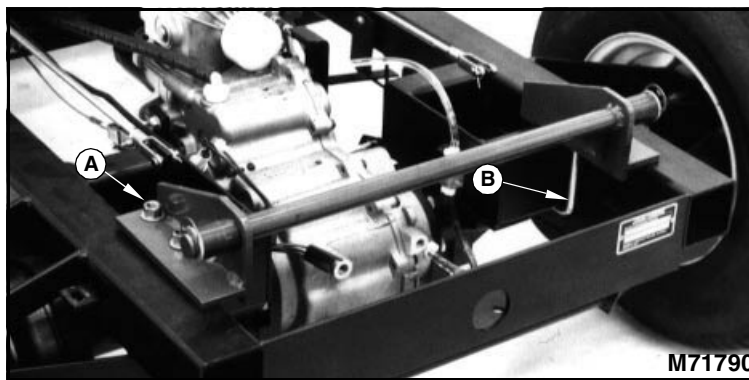
REMOVING

Removing Cargo Box

1. Remove pivot bar U-bolts (B):

NOTE: Photo taken with cargo box removed from pivot bar for photo clarity.

2. Remove four nuts (A), four lock washers, and four flat washers.
3. Remove two U-bolts (B). Store U-bolts with pivot bar.



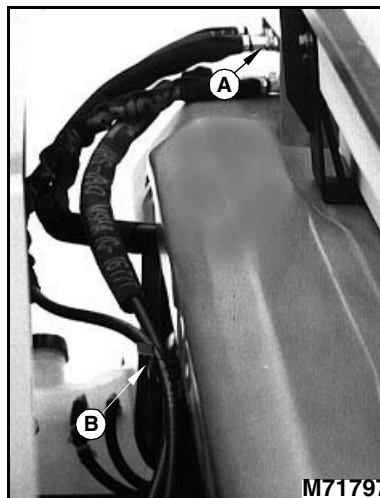
4. Using a safe lifting device, remove cargo box from vehicle bed.



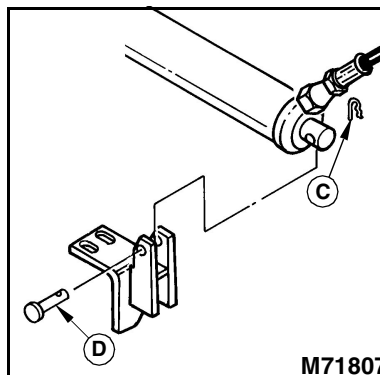
REMOVING

Disconnecting Hydraulic Cylinder And Hoses

1. Disconnect hoses (A) from control valve couplers.
2. Remove hoses from hose bracket (B).
3. Connect hoses to each other or storage.

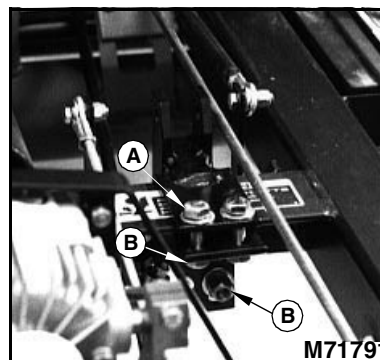


4. Remove spring locking pin (C) and drilled pin (D).
5. Remove cylinder and hoses from vehicle and store them with cargo box.



Removing Cylinder Brackets

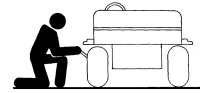
1. Remove three 1/2 in. locknuts (B), six 1/2 in. flat washers, three 1/2 x 1-1/2 in. cap screws (A), and two brackets.
2. Store brackets and hardware with cargo box.



OPERATING

SAFETY

Operate Safely



- Check vehicle brake action before you operate.
Adjust or service brakes as necessary.
- Inspect machine before you operate. Be sure hardware is tight. Repair or replace damaged, badly worn, or missing parts. Be sure guards and shields are in good condition and fastened in place. Make any necessary adjustments before you operate.
- DO NOT leave vehicle unattended when it is running.
- Only operate during daylight or with good artificial light.
- DO NOT let anyone, especially children, ride in cargo box.
- DO NOT let children or untrained person operate machine.

Keep Riders Off



- Only allow the operator and **ONE** passenger on the machine's bench seat. Keep riders off except on the bench seat.
- No riders are allowed in the cargo box or anywhere else on the vehicle except the bench seat.
- Riders on the machine or attachment (other than on the vehicle seat) may be struck by foreign objects or thrown off the machine causing serious injury.

OPERATING

Stay Clear of Rotating Drivelines

Entanglement in rotating driveline can cause serious injury or death:



- Wear close fitting clothing.
- STOP the engine and be sure PTO driveline is stopped before getting near it.

Avoid Tipping

- Drive very slowly when turning. Sharp turns could cause the utility vehicle to roll over even at slower speeds or on flat ground.
- DO NOT drive where machine could slip or tip.
- Stay alert for holes and other hidden hazards in the terrain.
- Keep away from drop-offs.
- When operating with a load, limit loads to those you can safely control, avoid shifting loads. 1500 lb (680 kg) maximum load in cargo box. Reduce load when operating over rough or hilly terrain.
- Drive up and down a hill - not across. Be careful when you change direction on a slope.
- DO NOT stop when going up hill or down hill. If machine stops going up hill, back down slowly.



OPERATING

Transport Loads Safely

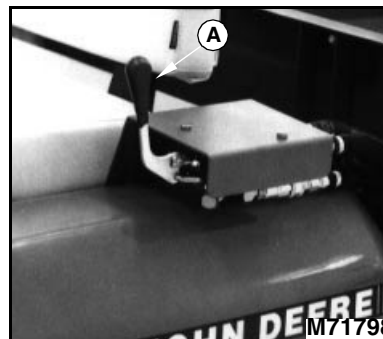
Use care when transporting loads:

- Do not allow load to exceed 1500 lbs (680 kg).
- Be sure load is evenly distributed.
- Do not load above cargo box sides.
- Securely anchor loads.



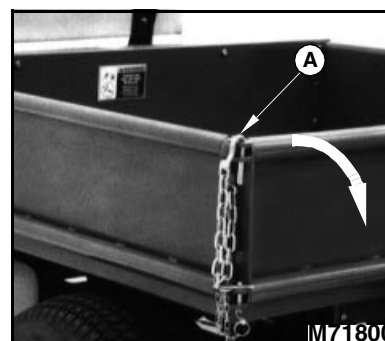
Raising and Lowering Cargo Box

1. Pull lever (A) back to raise cargo box.
2. Push lever forward to lower cargo box.



Operating Tailgate

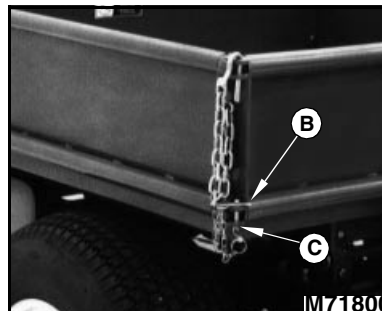
1. To lower tailgate:
 - Remove two pins (A) and pull tailgate back.



OPERATING

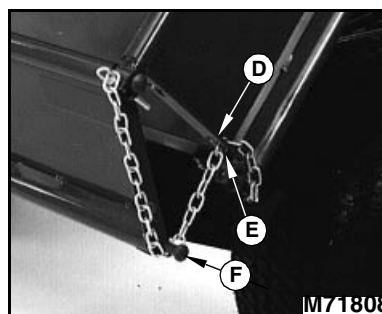
2. To use tailgate for controlled spreading applications:

- Remove two spring locking pins (B) and drilled pivot pins (C).



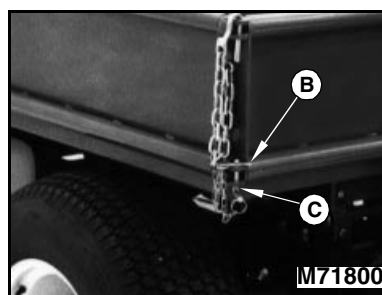
- Open gate to desired level – the higher the gate is raised, the more material will be dumped.

- Wrap chain around tailgate (F) and feed through hole (D). Secure desired link in slot (E).



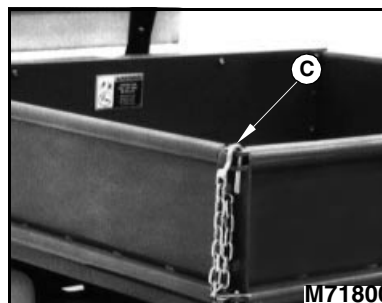
3. To remove tailgate:

- Remove two spring locking pins (B) and drilled pivot pins (C).



CAUTION: To avoid injury, have a firm hold on tailgate when removing it.

- Remove two pins (C) and chains.
- Remove tailgate.

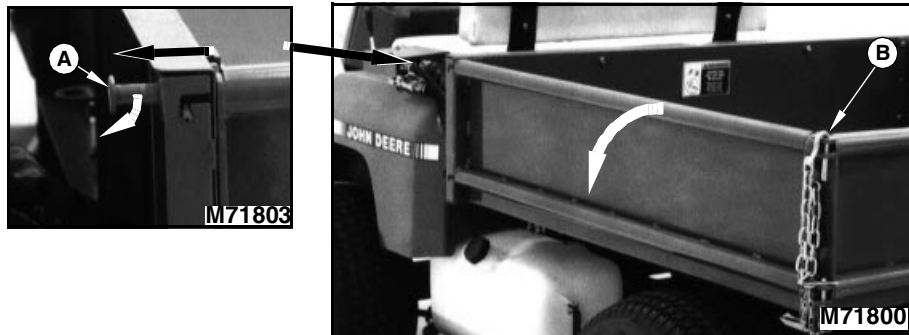


OPERATING

Lowering and Removing Box Sides

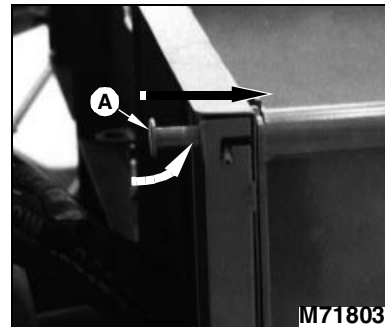
1. To lower sides:

- Pull top spring loaded locking pin (A) back and turn it to lock it in the open position.
- Remove chain and pin (B) from side panel. Pull side panel down.



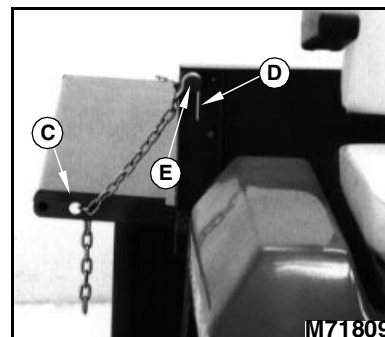
2. To hold side panel in open position:

- Turn top spring loaded locking pin (A) and push it back into the locked position.



- Insert chain link through hole (C) and secure link in slot.
- Hook pin (D) over spring loaded pin (E).

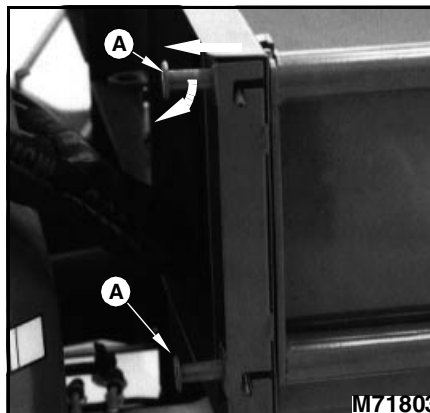
NOTE: When operating in narrow places, be aware sides extend beyond width of vehicle.



OPERATING

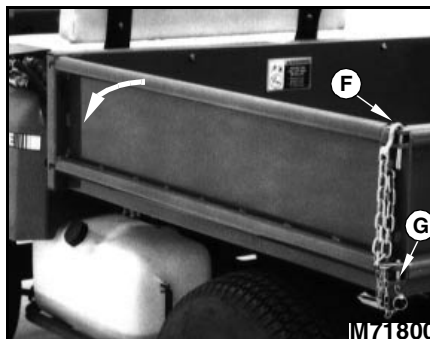
3. To remove side panels:

- Pull two spring loaded locking pins (A) back and turn them to lock them in the open position.



CAUTION: To avoid injury, have a firm hold on side panel when removing it.

- Remove pin (F) and chain.
- While holding side panel in the center, swing front end out and remove panel.
- Repeat steps for the other side, except when removing pin (F), allow tailgate to swing down on pivot pin (G) first then remove panel.
- Remove tailgate if desired.



Reverse steps to install side panels.

REPLACEMENT PARTS

WE RECOMMEND JOHN DEERE quality parts and lubricants, available at your John Deere dealer.

PART NUMBERS MAY CHANGE, use part numbers listed below when you order. If a number changes, your dealer will have the latest number.

WHEN YOU ORDER PARTS, your John Deere dealer needs your machine serial number. This is the number you have recorded in the **INTRODUCTION** section in the front of this manual.

ITEM	PART NUMBER
Hydraulic Hose, Cylinder 1829 mm (72 in.)	MT961
Hydraulic Hose, Cylinder 1524mm (60 in.)	MT962
Hydraulic Hose, Control Valve 1219mm (48 in.)	MT960
Lift/Lower Valve	MT606

(Part numbers are subject to change without notice. Part Numbers may be different outside the U.S.A.)

ASSEMBLY

SAFETY

Stay Clear of Rotating Drivelines



Entanglement in rotating driveline can cause serious injury or death:

- STOP the engine and be sure PTO driveline is stopped before getting near it.

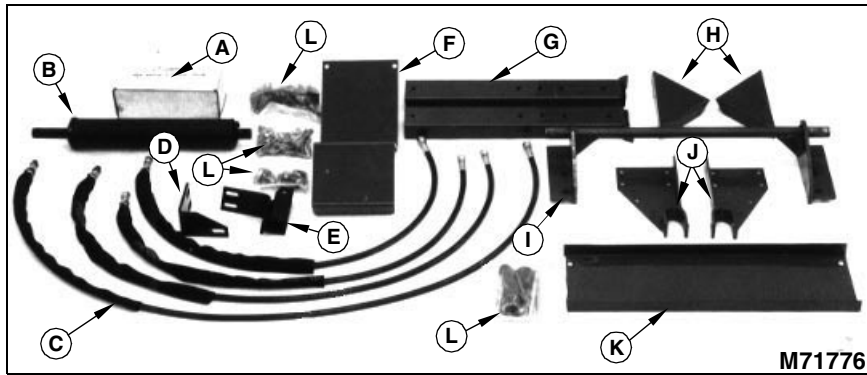
Avoid High Pressure Fluids



- 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.

ASSEMBLY

Identify Parts



- | | |
|---|-----------------------------------|
| A - Lift/Lower Valve Kit (Boxed) | G - (2) Box Supports |
| B - Hydraulic Cylinder | H - (2) Box Gussets |
| C - (4) Hydraulic Hoses | I - Box Pivot Bar |
| D - Pivot Bracket Plate | J - (2) Box Pivot Brackets |
| E - Pivot Bracket | K - Stiffener Plate |
| F - Control Valve Support | L - (4) Bags of Parts |
- Cargo Box (not shown)

ASSEMBLY

Bags of Parts

Qty. Used	Part Description	Where Used
22	Capscrews 3/8 x 3/4 in.	4 - Gussets to box 6 - Box supports to box 4 - Box stiffener plate to pivot brackets 8 - Pivot bracket assembly to box
26	Locknuts 3/8 in.	22 - 3/8 x 3/4 in. capscrews 4 - 3/8 x 1 in. capscrews
4	Capscrews 3/8 x 1 in.	Box supports to box
3	90° Elbows with O-ring	1 - Long end of hydraulic cylinder (different thread size) 1 - Control valve "B" port 1 - Control valve "A" port
2	Straight fittings with O-rings	Control valve "IN" and "OUT" ports
1	90° swivel connector	Long end hydraulic cylinder elbow
2	Quick connect coupler (male end)	1 - 1829 mm (72 in.) hose end 1 - Control valve elbow
1	Fitting with O-ring	Short end of hydraulic cylinder
2	Quick connect coupler	1 - 1524 mm (60 in.) hose end 1 - Control valve elbow
2	Drilled pin	1 - Cylinder to box 1 - Cylinder to vehicle bracket
2	Spring locking pin	2 - Cylinder drilled pins

ASSEMBLY

Qty. Used	Part Description	Where Used
2	Capscrews 1/4 x 2 in.	2 - Control valve to support
1	Capscrew 1/4 x 1-1/2 in.	1 - Hydraulic hose bracket
3	Locknuts 1/4 in.	2 - 1/4 x 2 in. capscrews 1 - 1/4 x 1-1/2 in. capscrew
1	Control valve support bar	Support to vehicle
2	Bolts 5/16 x 1 in.	Support bar to control valve support
2	Locknuts 5/16 in.	5/16 x 1 in. bolts
1	Control valve lever*	Control valve
1	Control valve lever drilled pin*	Control valve lever to control valve
1	Control valve lever drilled U-pin*	Control valve lever to control valve
2	Cotter pins*	Control valve drilled pins
*Comes in box with Control Valve		
1	Hydraulic hose bracket	Vehicle frame
1	Hose connector	1219 mm (48 in.) hose control valve "IN" hose to vehicle pressure hose
1	45° swivel connector	1219 mm (48 in.) hose control valve "OUT" hose to vehicle hose elbow
2	Capscrews 1/2 x 2-1/2 in.	Box pivot bracket to vehicle
5	Locknuts 1/2 in.	2 - Box to vehicle capscrews 3 - Hydraulic cylinder bracket capscrews
2	U-bolts	Pivot bar to vehicle

ASSEMBLY

Qty. Used	Part Description	Where Used
4	Lockwashers 1/2 in.	Pivot bar U-bolts
4	Flat washers 1/2 in.	Pivot bar U-bolts
4	Nuts 1/2 in.	Pivot bar U-bolts
3	Capscrews 1/2 x 1-1/2 in.	Hydraulic cylinder bracket on vehicle
6	Flat washers 1/2 in.	Hydraulic cylinder bracket capscrews

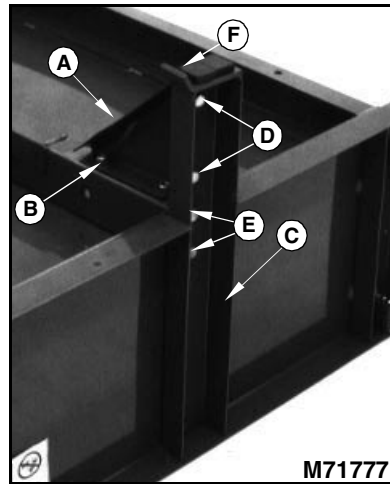
ASSEMBLY

Assembling Box

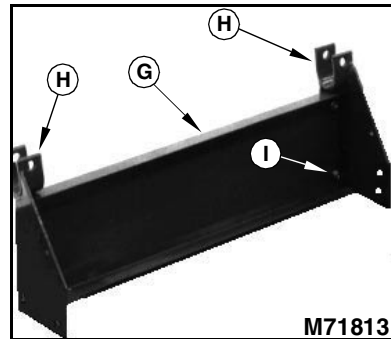
1. Open carton and remove two boxes from inside box.
2. Using a safe lifting device, remove box from carton.
3. Turn box upside down and lay it on a flat level surface.

IMPORTANT: Be sure box supports are installed with guide (F) facing center of box.

4. Install two gussets (A) with four 3/8 x 3/4 in. capscrews and 3/8 in. locknuts (B).
5. Install two box supports (C) with four 3/8 x 3/4 in. capscrews (D), four 3/8 x 1 in. capscrews (E) and eight 3/8 in. locknuts.

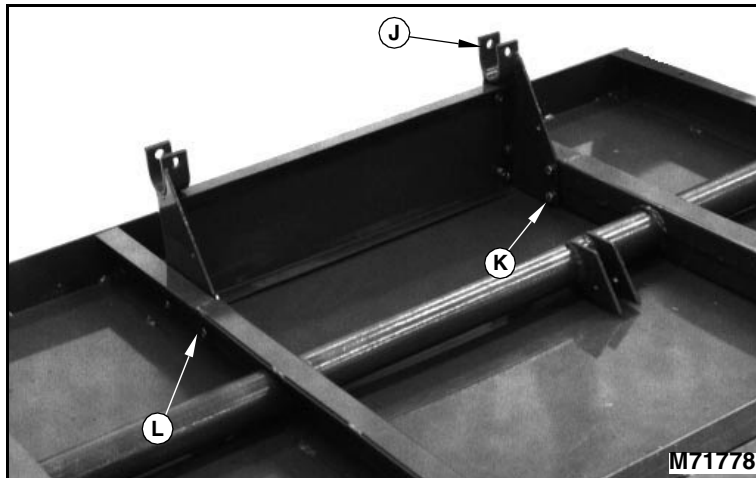


6. Install stiffener plate (G) on pivot brackets (H) with four 3/8 x 3/4 in. capscrews and four 3/8 in. locknuts (I).



ASSEMBLY

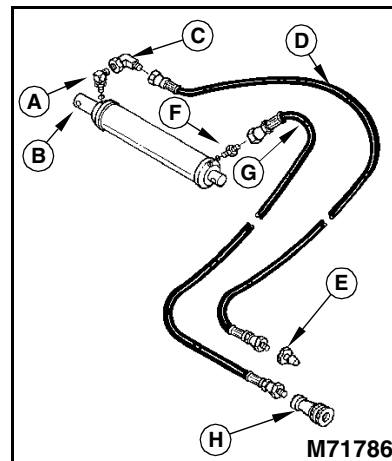
7. Install pivot bracket assembly (J) with eight 3/8 x 3/4 in. capscrews (K) and eight 3/8 in. locknuts (L).



Assembling Hydraulic Lines and Cylinder

NOTE: Remove shipping plugs from hoses and cylinder before assembling them. Be careful not to let paint chips or dirt fall into hoses, cylinder, or valve ports.

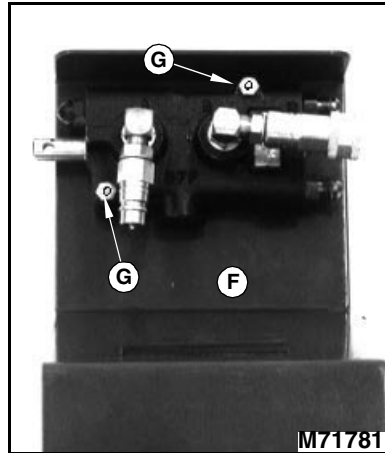
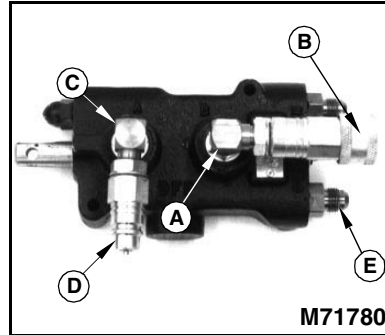
1. Install elbow with O-ring (A) in hydraulic cylinder long end (B).
2. Install 90° swivel elbow (C) in elbow (A).
3. Install 1829 mm (72 in.) (longest hose) (D) into elbow swivel.
4. Install male end quick connect coupler (E) on hose (D).
5. Install connector with O-ring (F) on short end of cylinder.
6. Connect 1524 mm (60 in.) hose (G) to connector.
7. Install female quick connect coupler (H) on hose (G).



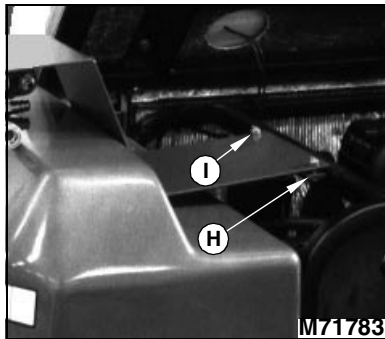
ASSEMBLY

Assembling Control Valve and Support

1. Install elbow with O-ring (A) and female quick connect end coupler (B) in control valve port marked "B"
2. Install elbow with O-ring (C) in control valve port marked "A".
3. Install male end half coupler (D) on elbow (C).
4. Install two straight fittings with O-rings (E).
5. Mount control valve on support (F) with two 1/4 x 2 in. capscrews, and 1/4 in. locknuts (G).



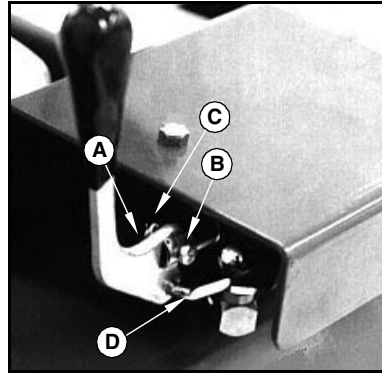
6. Install control valve support on vehicle with support bar (H), and two 5/16 x 1in. carriage bolts, and two 5/16 in. locknuts (I).



ASSEMBLY

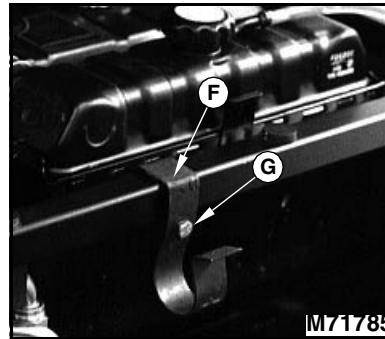
Installing Control Valve Lever

1. Align holes in control valve with top hole in lever (A).
2. Install drilled pin (B) and fasten with cotter pin (C).
3. Install one end of drilled U-pin (D) in lower hole in lever and the other end in the hole in the control valve.
4. Fasten lever end of U-pin with a cotter pin.



NOTE: There is only one cotter pin retaining the U-pin. The end in the control valve does not require a cotter pin.

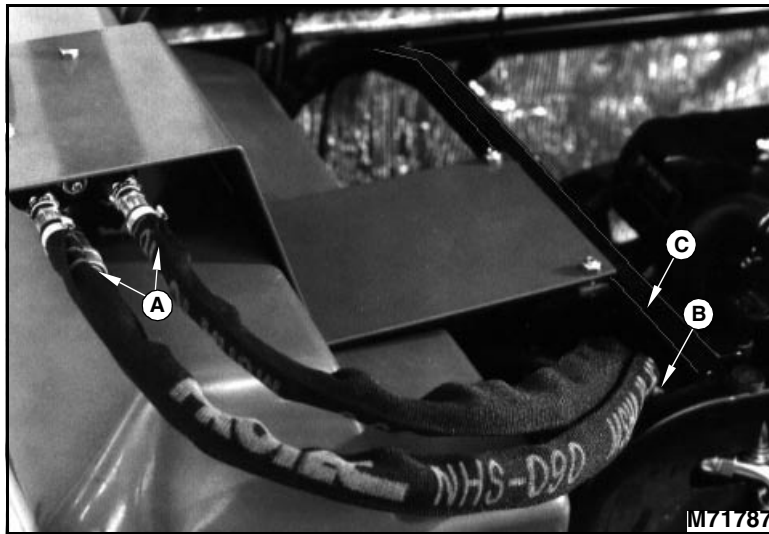
5. Install hose bracket (F) with 1/4 x 1-1/2 in. cap screw (G) and 1/4 in. locknut.



ASSEMBLY

Installing Control Valve Hoses

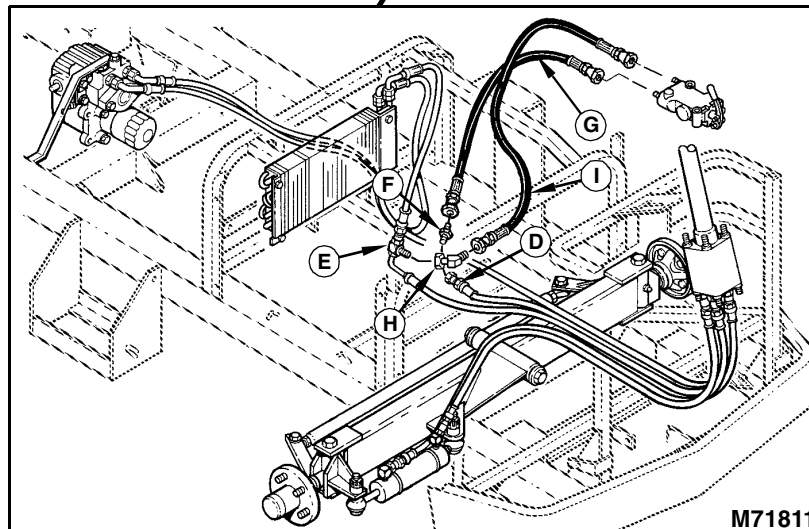
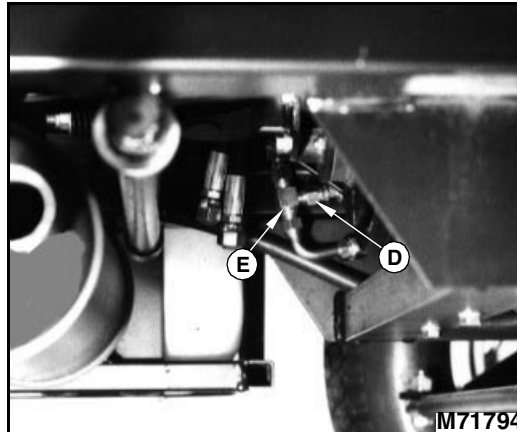
1. Connect two 1219 mm (48 in.) hoses (A) to control valve “IN” and “OUT” outlets.
2. Route hoses over cooler hoses (B), and under frame bar (C).



3. Secure hoses with tie straps as necessary.

ASSEMBLY

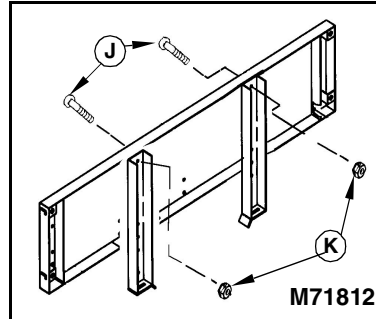
NOTE: Some oil may drip from vehicle elbow when you disconnect the existing hose. After you have installed and operated the box, check hydraulic oil level (See vehicle Operator's Manual). Add oil if necessary.



4. Disconnect pressure hose (D) from elbow (E). Install connector (F) in the pressure hose you just removed from elbow.
5. Connect hose (G) from control valve "IN" port to connector (F).
6. Install 45° swivel connector (H) into elbow (E).
7. Connect hose (I) from control valve "OUT" port to swivel elbow.

ASSEMBLY

8. Using a safe lifting device, turn the cargo box over to its original position. Install two 3/8 x 3/4 in. capscrews (J) and 3/8 in. locknuts (K) in box front panel.



9. Install box. (See INSTALLING section.)

SPECIFICATIONS

Box Specifications

Size	1372mm x 1219mm x 254mm (54in. x 48in. x 10in.)
Capacity	0.4 cu. meters (15 cu. ft.) 680 kg (1500 lb)
Lift	Hydraulic Cylinder
Sides and Tailgate	Removable

(Specifications and design subject to change without notice)

SPECIFICATIONS

Metric Bolt and Cap Screw Torque Values

Property Class and Head Markings	 4.8  4.8  4.8	 8.8  9.8  8.8  9.8	 10.9  10.9	 12.9  12.9  12.9
Property Class and Nut Markings	 5  5  5	 10  10  10  10	 10  10  10	 12  12  12

	Class 4.8				Class 8.8 or 9.8			
	Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a	
Size	N•m	lb-ft	N•m	lb-ft	N•m	lb-ft	N•m	lb-ft
M6	48	3.5	6	4.5	9	6.5	11	8.5
M8	12	8.5	15	11	22	16	28	20
M10	23	17	29	21	43	32	55	40
M12	40	29	50	37	75	55	95	70
M14	63	47	80	60	120	88	150	110
M16	100	73	125	92	190	140	240	175
M18	135	100	175	125	260	195	330	250
M20	190	140	240	180	375	275	475	350
M22	260	190	330	250	510	375	650	475
M24	330	250	425	310	650	475	825	600
M27	490	360	625	450	950	700	1200	875
M30	675	490	850	625	1300	950	1650	1200
M33	900	675	1150	850	1750	1300	2200	1650
M36	1150	850	1450	1075	2250	1650	2850	2100

SPECIFICATIONS

Metric Bolt and Cap Screw Torque Values (Continued)

Property Class and Head Markings	 4.8  4.8  4.8	 8.8  9.8  9.8	 10.9  10.9	 12.9  12.9  12.9
Property Class and Nut Markings	 5  5  5	 10  10  10	 10  10  10	 12  12  12

	Class 10.9				Class 12.9			
	Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a	
Size	N•m	lb-ft	N•m	lb-ft	N•m	lb-ft	N•m	lb-ft
M6	13	9.5	17	12	15	11.5	19	14.5
M8	32	24	40	30	37	28	47	35
M10	63	47	80	60	75	55	95	70
M12	110	80	140	105	130	95	165	120
M14	175	130	225	165	205	150	260	109
M16	275	200	350	225	320	240	400	300
M18	375	275	475	350	440	325	560	410
M20	530	400	675	500	625	460	800	580
M22	725	540	925	675	850	625	1075	800
M24	925	675	1150	850	1075	800	1350	1000
M27	1350	1000	1700	1250	1600	1150	2000	1500
M30	1850	1350	2300	1700	2150	1600	2700	2000
M33	2500	1850	3150	2350	2900	2150	3700	2750
M36	3200	2350	4050	3000	3750	2750	4750	3500

SPECIFICATIONS

Metric Bolt and Cap Screw Torque Values (Continued)

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only and include a $\pm 10\%$ variance. Check tightness of fasteners periodically. DO NOT use air powered wrenches.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

Fasteners should be replaced with the same grade. Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

When bolt and nut combination fasteners are used, torque values should be applied to the NUT instead of the bolt head.

Tighten toothed or serrated-type lock nuts to the full torque value.

^a *"Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication.*

SPECIFICATIONS

Unified Inch Bolt and Cap Screw Torque Values

SAE Grade and Head Markings	1 or 2^b No Marks 	5 5.1 5.2   	8 8.2  
SAE Grade and Nut Markings	2 No Marks 	5  	8  

TS1162

	Grade 1				Grade 2 ^b			
	Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a	
SIZE	N•m	lb-ft	N•m	lb-ft	N•m	lb-ft	N•m	lb-ft
1/4	3.7	2.8	4.7	3.5	6	4.5	7.5	5.5
5/16	7.7	5.5	10	7	12	9	15	11
3/8	14	10	17	13	22	16	27	20
7/16	22	16	28	20	35	26	44	32
1/2	33	25	42	31	53	39	67	50
9/16	48	36	60	45	75	56	95	70
5/8	67	50	85	62	105	78	135	100
3/4	120	87	150	110	190	140	240	175
7/8	190	140	240	175	190	140	240	175
1	290	210	360	270	290	210	360	270
1-1/8	470	300	510	375	470	300	510	375
1-1/4	570	425	725	530	570	425	725	530
1-3/8	750	550	950	700	750	550	950	700
1-1/2	1000	725	1250	925	990	725	1250	930

SPECIFICATIONS

Unified Inch Bolt and Cap Screw Torque Values (Continued)

SAE Grade and Head Markings	No Marks 	  	 
SAE Grade and Nut Markings	No Marks 	 	 

TS1162

	Grade 5, 5.1 or 5.2				Grade 8 or 8.2			
	Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a	
SIZE	N•m	lb-ft	N•m	lb-ft	N•m	lb-ft	N•m	lb-ft
1/4	9.5	7	12	9	13.5	10	17	12.5
5/16	20	15	25	18	28	21	35	26
3/8	35	26	44	33	50	36	63	46
7/16	55	41	70	52	80	58	100	75
1/2	85	63	110	80	120	90	150	115
9/16	125	90	155	115	175	130	225	160
5/8	170	125	215	160	215	160	300	225
3/4	300	225	375	280	425	310	550	400
7/8	490	360	625	450	700	500	875	650
1	725	540	925	675	1050	750	1300	975
1-1/8	900	675	1150	850	1450	1075	1850	1350
1-1/4	1300	950	1650	1200	2050	1500	2600	1950
1-3/8	1700	1250	2150	1550	2700	2000	3400	2550
1-1/2	2250	1650	2850	2100	3600	2650	4550	3350

SPECIFICATIONS

Unified Inch Bolt and Cap Screw Torque Values (Continued)

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only and include a $\pm 10\%$ variance. Check tightness of fasteners periodically. DO NOT use air powered wrenches.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

Fasteners should be replaced with the same grade. Make sure fastener threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten toothed or serrated-type lock nuts to the full torque value.

^a *“Lubricated” means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. “Dry” means plain or zinc plated without any lubrication.*

^b *“Grade 2” applies for hex cap screws (not hex bolts) up to 152 mm (6-in.) long. “Grade 1” applies for hex cap screws over 152 mm (6-in.) long, and for all other types of bolts and screws of any length.*

INDEX

A

Assembling Box 24

B

Box Sides, Lowering and Removing 16

Box, Assembling 24

C

Cargo Box, Installing 4

Cargo Box, Raising and Lowering 14

Cargo Box, Removing 10

Control Valve and Support, Assembling 26

Control Valve Hoses, Installing 28

Control Valve Lever, Installing 27

Cylinder And Hoses, Disconnecting 11

Cylinder Brackets And Cylinder, Installing 3

Cylinder Brackets, Installing 3

Cylinder Brackets, Removing 11

Cylinder, Connecting Hydraulic 7

Cylinder, Disconnecting Hydraulic 9

Cylinder, Installing 3

L

Lines and Cylinder, Assembling 25

P

Parts, Identifying Assembly 20

Parts, Service 18

Pivot Bar and Box, Installing 4

Pivot Bar, Installing 4

S

Safety Labels, Machine 1

Safety, Assembly 19

Safety, Installing 2

Safety, Operating 12

Safety, Removing 8

Sides, Lowering and Removing 16

INDEX

T

Tailgate, Operating	14
Transport Loads	14

NOTES

JOHN DEERE SERVICE LITERATURE

Order Form

John Deere Distribution Center
Department S/P
1400-13th St., East Moline, IL 61244-1493

Name _____

Address _____

City _____

State _____

Zip _____

Phone () _____

To order these publications, fill out this form and the payment information and mail it to the address above. Make checks payable to John Deere. Please allow three weeks for delivery. No COD orders, please. Do not send cash or stamps. To place credit card orders, call **1-800-522-7448**. If you want manuals or catalogs for equipment not shown on this list, provide the model number, serial number, and name of the product.

Title	Order Number	Price Each	x Quantity	= Total	
Parts Catalog	PC2353		X	=	
Operator's Manual	OMMT1068	(Call 1-800-522-7448 for current prices)	X	=	
1800 Utility Vehicle Operator's Manual	OMMT1071		X	=	
Fundamentals of Service (FOS) Manuals:					
Engines	FCP80101B		X	=	
Power Trains	FCP81102B	(Call 1-800-522-7448 for current prices)	X	=	
Electrical Systems	FCP83101B		X	=	
Hydraulics	FCP82101B		X	=	
Catalog of Available Service Publications	DB1112	N/C			
Sub-total					
Method of Payment ☐ Check or Money Order Enclosed ☐ John Deere Credit Card ☐ MasterCard ☐ Visa ☐ American Express ☐ Discover Credit Card Acct. No. (13 or 16 digits) _____ - _____ - _____ - _____		Illinois state residents add 6.25% and Iowa state resident add 4% for Retail Occupation Tax or show tax exemption number. Other states excluded. Total Shipping & Handling (from table below) (Prices subject to change without notice - DEC 91) Amount Due in U.S. Dollars			
		Subtotal	Shipping/Handling	Optional shipping available. Please check and add cost to normal shipping: ☐ 1 day air.....\$15.00 ☐ 2 day air.....\$10.00	
		\$.50 to 14.99	\$3.00		
		15.00 to 24.99	4.25		
		25.00 to 49.99	5.50		
50.00 to 99.99	7.50				
Signature:		100.00 and over	4% of sub total		

NOTES



QUALITY DOESN'T END WHEN YOU INVEST IN A DEERE

John Deere equipment is more than just a purchase, it's an investment in quality. That quality goes beyond our equipment to your John Deere dealer's parts and service support. This support is needed to keep you a satisfied customer.

That's why John Deere has initiated a process to handle your questions or problems, should they arise. The following three steps will help guide you through the process.

Step 1 Refer to your operator's manual

- A. It has many illustrations and detailed information on the safe and proper operation of your equipment.
- B. It gives troubleshooting procedures, and specification information.
- C. It gives ordering information for parts catalogs, service and technical manuals.
- D. If your questions are not answered in the operator's manual, then go to Step 2.

Step 2 Contact your dealer

- A. Your John Deere dealer has the responsibility, authority, and ability to answer questions, resolve problems, and fulfill your parts and service needs.
- B. First, discuss your questions or problems with your dealer's trained parts and service staff.
- C. If the parts and service people are unable to resolve your problem, see the dealership manager or owner.
- D. If your questions or problems are not resolved by the dealer, then go to Step 3.

Step 3 Call the John Deere Customer Communications Center

- A. Your John Deere dealer is the most efficient source in addressing any concern, but if you are not able to resolve your problem after checking your operator's manual and contacting your dealer, call the Customer Communications Center.
- B. For prompt, effective service, please have the following ready before you call:
 - The name of the dealer with whom you've been working.
 - Your equipment model number.
 - Number of hours on machine (if applicable).
 - Your 13-digit serial number which you recorded on the inside front cover of this manual.
 - If the problem is with an attachment, your attachment identification number.
- C. Then call 1-800-537-8233 and our advisor will work with your dealer to investigate your concern.

