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NEW HOLLAND TN Series

INSTALLATION INSTRUCTIONS SUPPLEMENT



NEW HOLLAND

SERVICE

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*Several of the Installation Instructions are for all TN Series Models. The instructions are only printed one time in this book.

TN Standard Tractors

Index

Hydraulics

DIA Kit Number	Description	Publication Number
710366040	First rear remote valve (lever controlled)	86603756
719365020	Second rear remote valve (joystick controlled)	86603755
718365020	Second rear remote valve (lever controlled)	86603755
718366040	Third rear remote valve (lever controlled)	86603755
719366040	Fourth rear remote valve (lever controlled)	86603755
710714030	Mid-mount hydraulic coupler kit	86607199
715743026	Loader plumbing kit	SMC# F-3408 (1-11-99)

Weights

DIA Kit Number	Description	Publication Number
710225290	Front ballast bracket kit for 2WD/FWD front axle	86607916
710226340	88 lb. Front ballast (set of 6)	86607918
710471090	Rear wheel weights (set of 4 for 28 and 30 in. wheels)	86607919
710465010	Rear wheel weights (set of 6 for 24 in. wheels)	86609166

Electrical

DIA Kit Number	Description	Publication Number
73076762	Engine block heater	86622567
86564574	Back-up alarm wiring kit (does not include alarm)	86618373
86594353	Horn Kit	86610519
719712030	Top hold down battery kit	86622093
86608697	Brake Light Kit	86626573

Platform

DIA Kit Number	Description	Publication Number
5183876	Seat arm rest kit (tractors without cab)	86610515
716602006	Steel FOPS canopy (recommended when front end loader is installed)	86586606

Miscellaneous

DIA Kit Number	Description	Publication Number
710132020	Hydraulic filter protection kit	86622089
710150080	Horizontal exhaust kit	86610518
710168010	Front fenders for FWD front axle (Not compatible with 13.6 x 16.1, R3, 31x 12.5-15 or 12LL x 16 "Turf Special" front tires)	86609164
86566625	Front auxiliary drive kit	86618371
715825016	Grill Guard	SMC# F-3441 (4-20-99)
715781026	Loader Mounting Kit	SMC# F-3443 (4-27-99)

TND/TNS Tractors

Index

Hydraulics

DIA Kit Number	Description	Publication Number
719365010	Second Rear Remote Valve (joystick controlled)	86610095
718365010	Second Rear Remote Valve (lever controlled)	86579550
718366020	Third Remote Valve (lever controlled)	86627585
719366020	Fourth Remote Valve (lever controlled)	86627687
710714010	Mid-mount hydraulic coupler kit	86578474
715743026	Loader plumbing kit	SMC# F-3408* (1-11-99)

Weights

DIA Kit Number	Description	Publication Number
710225290	Front ballast bracket kit for 2WD/FWD front axle	86607916*
710225300	Front ballast bracket for super-steer front axle	86607917
710226340	88 lb. Front ballast (set of 6)	86607918*
710471090	Rear wheel weights (set of 4 for 28 and 30 in. wheels)	86607919*
710465010	Rear wheel weights (set of 6 for 24 in. wheels)	86609166*

Electrical

DIA Kit Number	Description	Publication Number
710762020	Rotary beacon kit	86631793
73076762	Engine block heater	86622567*
86564574	Back-up alarm wiring kit (does not include alarm)	86618373*
719712030	Top hold down battery kit	86622093*
5169413	Horn kit	86622094

Platform

DIA Kit Number	Description	Publication Number
5183267	Seat arm rest kit (tractor with cab)	86610516
5183876	Seat arm rest kit (tractors without cab)	86610515*
719879010	Rearview mirror kit (2 mirrors, cab models only)	86609165
716602006	Steel FOPS canopy (recommended when front end loader is installed)	86586606*

Miscellaneous

DIA Kit Number	Description	Publication Number
710131060	Fuel tank protection kit	86622091
710132010	Hydraulic filter protection kit	86622088
710150070	Horizontal exhaust kit	86610518*
710168010	Front fenders for FWD front axle (Not compatible with 13.6 x 16.1, R3, 31x 12.5-15 or 12LL x 16 "Turf Special" front tires)	86609164*

710494010	Front fenders for super-steer front axle	86620404
86566625	Front auxiliary drive kit (not for use with super steer front axle)	86618371*
715825016	Grill Guard	SMC# F-3441* (4-20-99)
715824016	Grill Guard (will not work with front ballast bracket) TNS only	SMC#F-3407 (11-02-98)
715781026	Loader Mounting Kit	SMC# F-3443* (4-27-99)

TNF Tractors

Index

Hydraulics

DIA Kit Number	Description	Publication Number
718366010	Third remote valve kit (with or without cab)	86579354
719389020	Mid-mount remote valve kit (joystick controlled)	86610094

Weights

DIA Kit Number	Description	Publication Number
710225290	Front ballast bracket kit for 2WD/FWD front axle	86607916*
710225300	Front ballast bracket for super-steer front axle	86607917*
710226340	88 lb. Front ballast (set of 6)	86607918*
710471090	Rear wheel weights (set of 4 for 28 and 30 in. wheels)	86607919*
710465010	Rear wheel weights (set of 6 for 24 in. wheels)	86609166*

Electrical

DIA Kit Number	Description	Publication Number
719712020	Top hold down battery kit	86622566
710762020	Rotary beacon (cab models)	86631793*
73076762	Engine block heater	86622567*

Miscellaneous

DIA Kit Number	Description	Publication Number
718151010	Vertical exhaust kit (cab models)	86609167
710132040	Hydraulic filter protection kit	86622090
718131010	Fuel tank protection kit	86622092
86566625	Front auxiliary drive kit (not for use with super steer front axle)	86618371*

TN STANDARD TRACTORS



INSTALLATION INSTRUCTIONS

#710366040 FIRST REAR REMOTE VALVE KIT

TRACTORS
TN55, TN65, TN70, TN75

APPROXIMATE INSTALLATION TIME - 2 HOURS

The remote hydraulic valve kit provides a method to connect and control hydraulic actuators, such as cylinders and motors. A single control lever is installed in the operator's platform or cab to operate the valve.

The valve is a three-position, open-center valve with oil supplied to the section (inlet) through a tube from the pump. Oil is returned through a tube to the center housing.

Additional sections may be added for control of a maximum four remote functions. The following table provides information on the different sections.

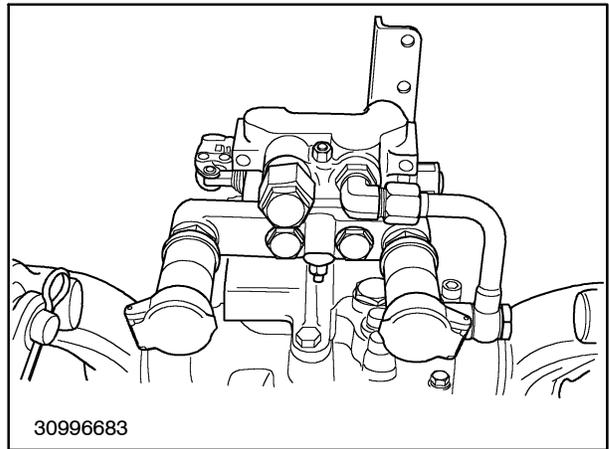
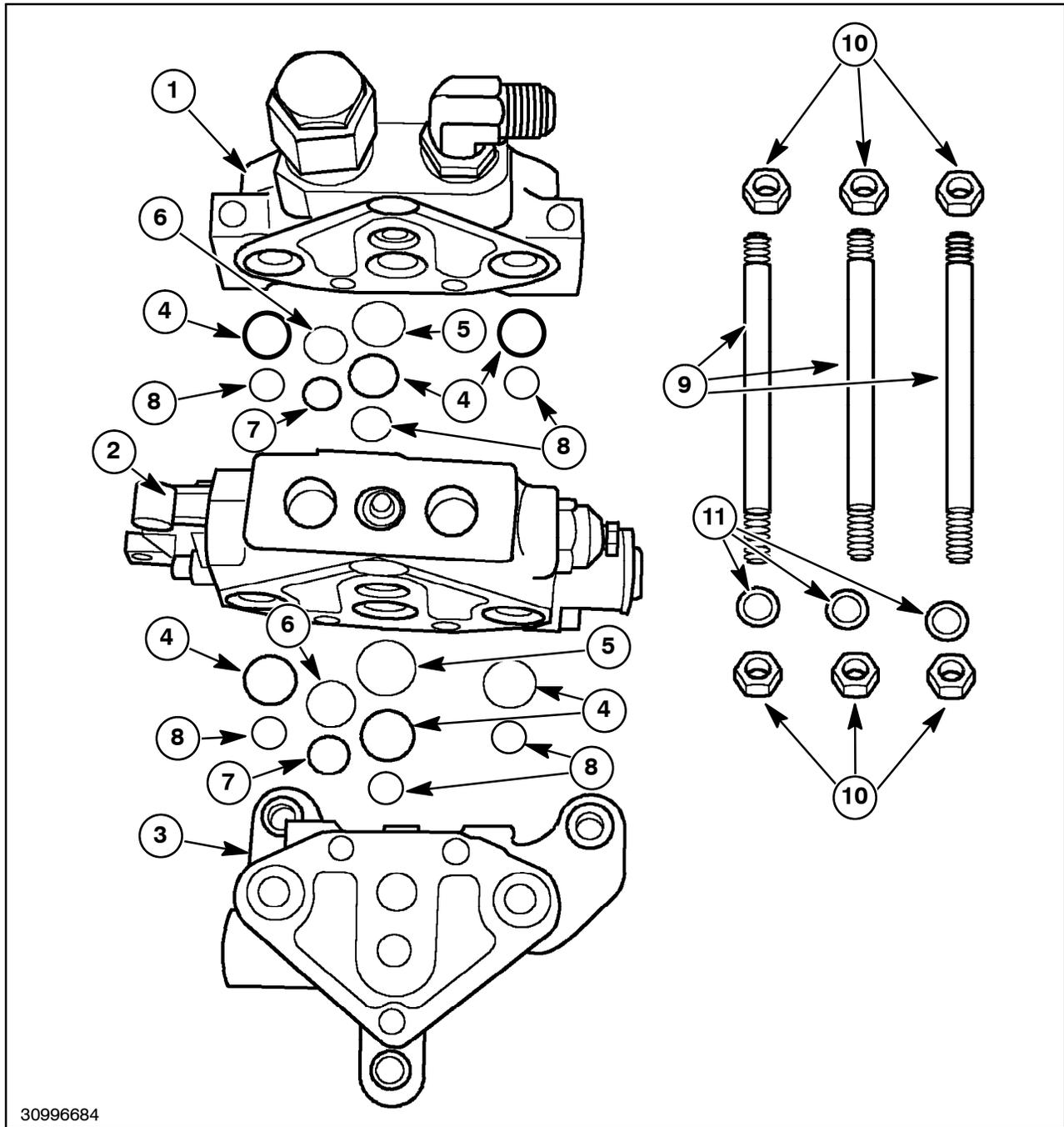


Figure 1

SECTION	CONTROL	SECTION SPECIFICS
1	Lever or Joystick*	Self-Centering
2	Lever or Joystick*	Self-Centering with Float
3	Lever	Detent with Float
4	Lever	Self-Centering

*Sections 1 and 2 require joystick control when sections 3 or 4 are installed.



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Figure 2

KIT CONTENTS

Valve Components

Ref.	Description	Qty.	Part No.	Ref.	Description	Qty.	Part No.
1	Outlet Section	1	5173758	7	Seal, 19.94 mm	2	5146468
2	Working Section	1	5161780	8	Seal, 18.72 mm	6	5180283
3	Inlet Section	1	5176800	9	Tie-Rod, 3/8" x 5"	3	5150104
4	Seal, 18.72 mm	6	5135739	10	Nut, 3/8"	6	5116857
5	Seal, 24 mm	2	5146466	11	Washer, 10 mm	3	10569471
6	Seal, 19.2 mm	2	5146467				

Manifold and Quick Couplers

Ref.	Description	Qty.	Part No.
1	Dust Cap, Green	2	5179551
2	Coupler, Female	2	5179558
3	Banjo Bolt	2	5168481
4	O Ring, 15.3 mm	2	14437985
5	Manifold	1	5185533
6	O Ring, 19.3 mm	2	5167640
	Coupler, Male (Not Shown)	2	5101741

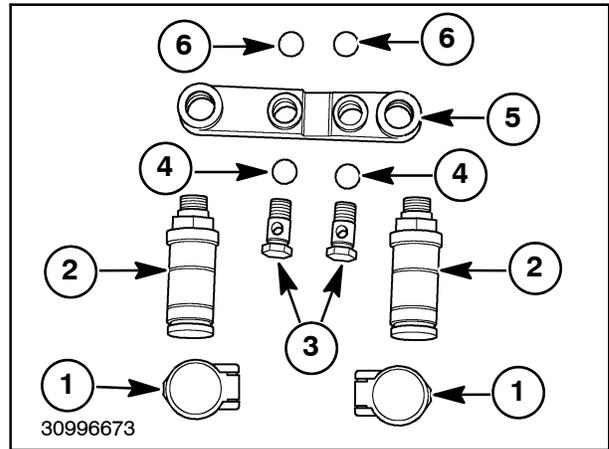


Figure 3

Handle and Cable Components

Ref.	Description	Qty.	Part No.
1	Mounting Bracket	1	5188902
2	Lever	1	5186974
3	Shim	3	5170694
4	Spacer	1	5170693
5	Washer	1	5188905
6	Screw, M5 x 45	1	14358924
7	Cable	1	5186977
8	Cable Bracket	1	5178435
9	Knob, Green	1	5179315

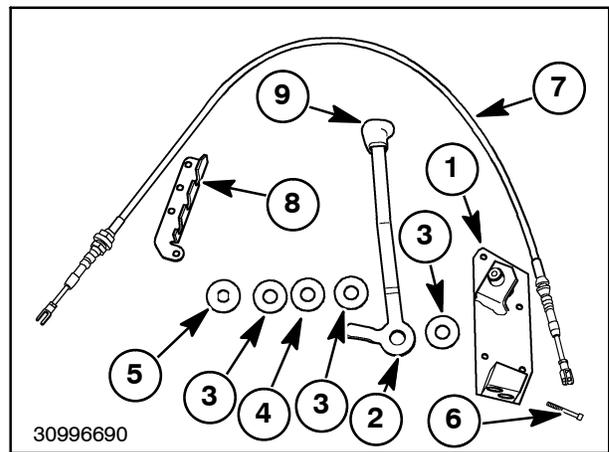


Figure 4

Hydraulic Components

Ref.	Description	Qty.	Part No.
1	Valve Assembly	1	5178890
2	Tube, Return	1	5173487
3	Tube, Rear Pressure	1	5181134
4	Banjo Bolt, M22	1	5182095
5	Seal, M22	2	5165897
6	Banjo Bolt, M18	1	5184345
7	Seal, M18	2	5135739
8	Bracket, Toolbox	1	5179479

Items Not Shown

Description	Qty.	Part No.
Bolt, M8 x 20	4	16043424
Nut, M8	4	16100814
Bolt, M10 x 20	1	15970524
Bolt, M10 x 70	2	15888824
Bolt, M12 x 30	3	15540424
Washer, M10	1	12646801
Nut, M10	2	12164714
Tapered Lockwasher, 4 (M8)	4	11193874
Tapered Lockwasher, 2 (M10)	2	11190574
Washer, M5	1	11181574
Washer, End, M18	1	5188905
Bolt with Patch, M10 x 22	1	5187364

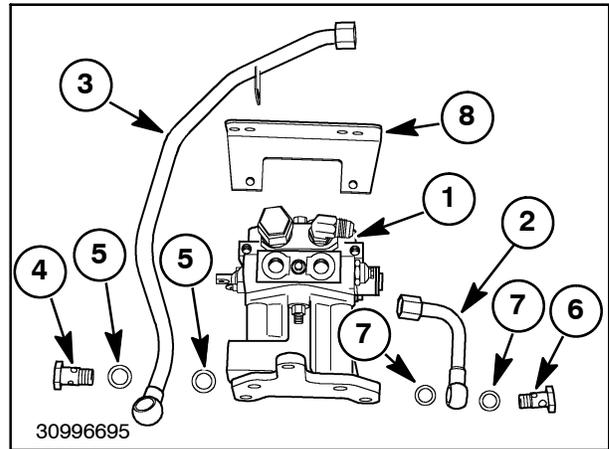


Figure 5

KIT INSTALLATION

NOTE: Reference to left, right, front, and rear are determined while sitting in the operator's seat.

Valve Assembly

NOTE: The valve assembly may be shipped as an assembly. If so, skip to Valve Installation.

1. Place valve support (inlet) section, 1, on a clean work bench.
2. Place tie-rods, 2, through the support and place nut and washer, 3, on the bottom of each tie-rod.
3. Place O rings and backup rings, 1, in the grooves on the bottom of working (first) section, 2. Use petroleum jelly to hold in place. Position the working section over the tie-rods and lower onto support section, 3.

NOTE: The working sections are not interchangeable. If additional sections are added in the future, they must be assembled in the proper order.

4. Place O rings and backup rings, 4, in grooves on bottom of outlet (top cover) section, 5. Use petroleum jelly to hold in place. Position the outlet section over the tie-rods and lower down onto the working section.

5. Place nut, 1, on the end of each tie-rod. Hand-tighten the nut until it bottoms against the end of the threads. Tighten the nuts on the bottom of tie-rods, 2, and torque to 58-66 N·m (43-48 ft. lbs.).

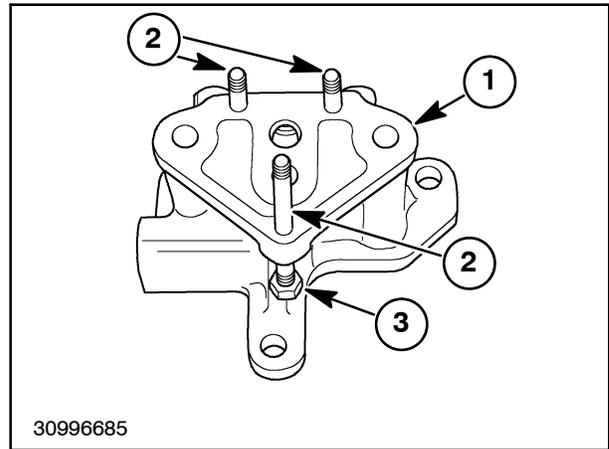


Figure 6

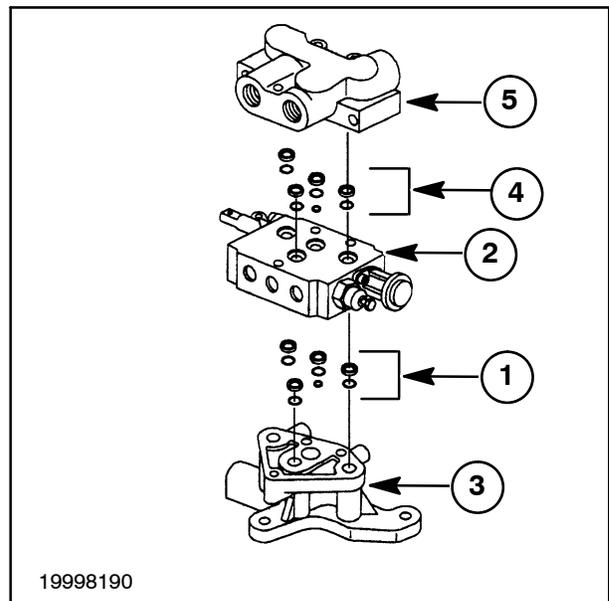


Figure 7

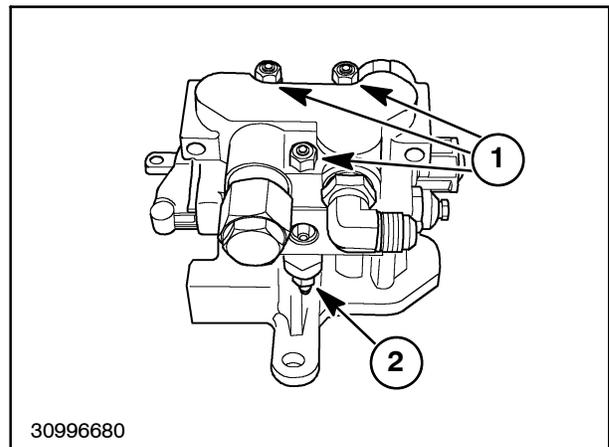


Figure 8

Valve Installation

1. Park the tractor on a level surface, set the parking brake, and remove the key from the ignition switch. Slide the seat fully forward.
2. Remove bolts and washers, 1, and remove the toolbox and toolbox bracket, 2.

NOTE: Additional access can be gained by removing the top link storage bracket.

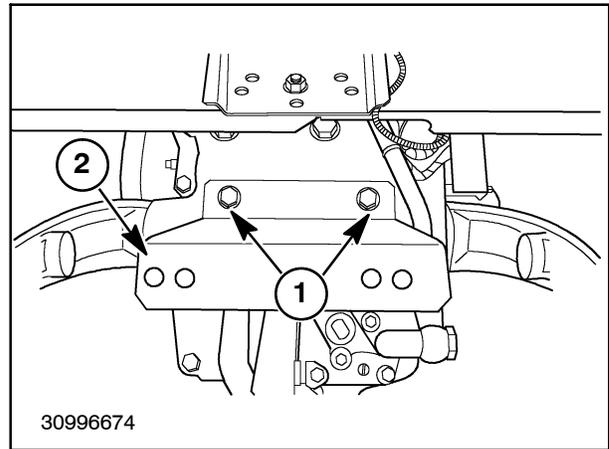


Figure 9

3. Thoroughly clean the top of the lift cover. After cleaning, remove plastic plugs, 1, from the three holes in the center section.
4. Remove banjo bolt, 2, and sealing washers, and disconnect rear pressure supply tube, 3, from 3-point hitch control valve, 4, and front pressure supply tube. It is necessary to remove one top cover bolt which supports the supply tube.

NOTE: It may be necessary to disconnect the seat switch.

5. Connect the new pressure supply tube to the front pressure supply tube. Reinstall the top cover bolt through the tube support.

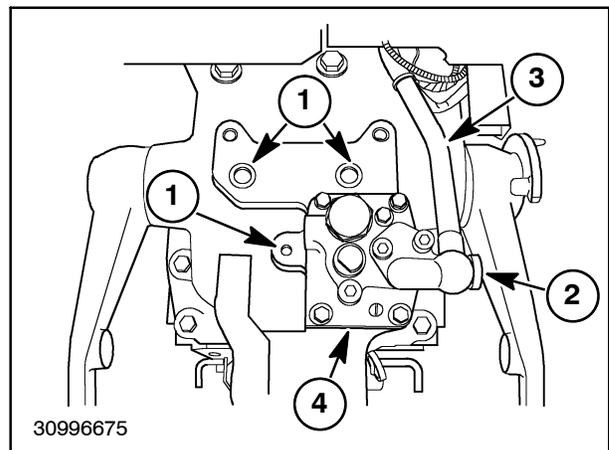


Figure 10

6. Place new sealing washers, 1, in the recessed holes in the lift cover.

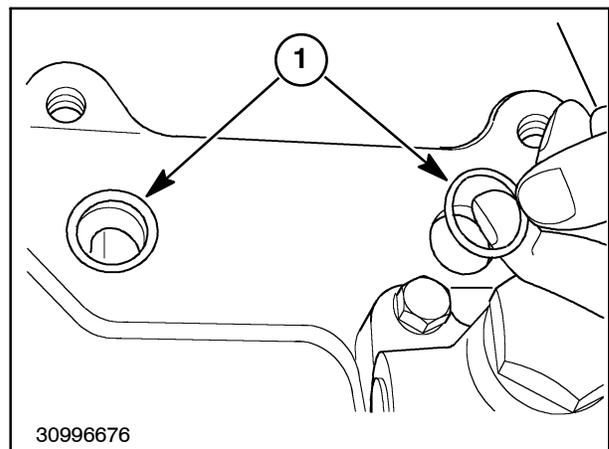


Figure 11

7. Place valve assembly, 1, on the lift cover and secure with three bolts, 2.

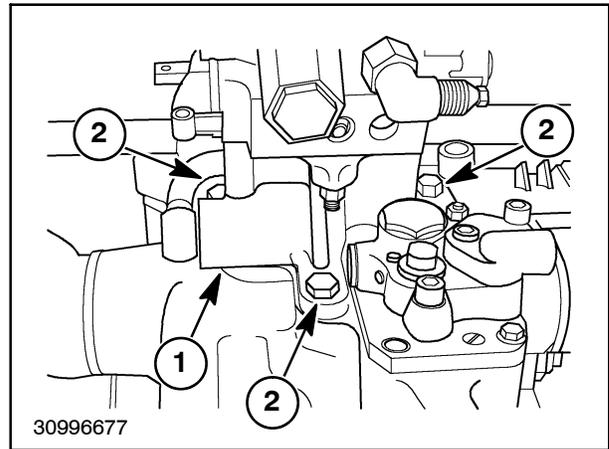


Figure 12

8. Connect rear pressure supply tube, 1, previously installed, to the left side of the valve support with M22 banjo bolt, 2, and sealing washers, 3. Sealing washers must be on each side of the banjo fitting.

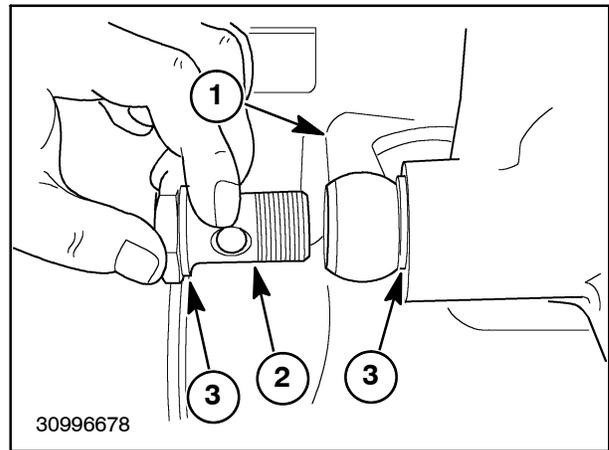


Figure 13

9. Remove plug, 1, from the left port of the top section. Install a 90° fitting, 2, in the right port. Reinstall the plug in the left port.

NOTE: If the valve was preassembled, the fitting may have been installed.

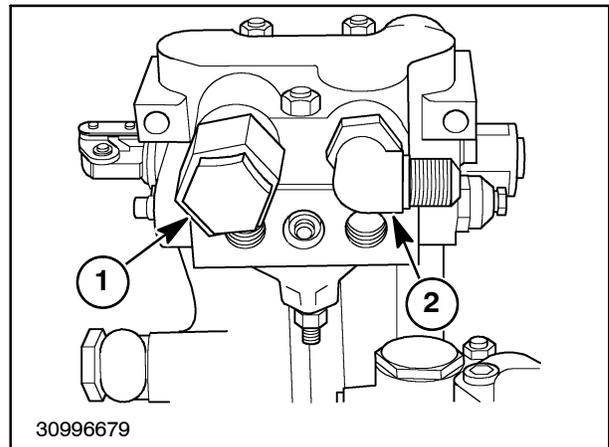


Figure 14

10. Place a 15.3 mm O ring on each banjo bolt, 1. Place a 19.3 mm O ring in each groove in the back of manifold, 2. Insert banjo bolts through the manifold and into the valve section.

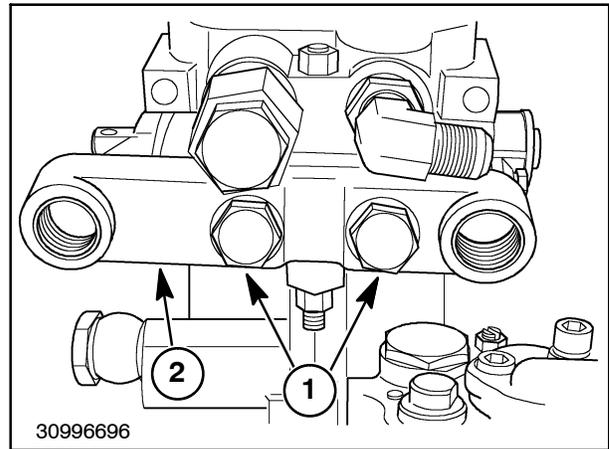


Figure 15

11. Install quick coupler, 1, into each side of manifold, 2. Be sure a 19.3 mm O ring, 3, is installed on each quick coupler.
12. Push a dust cover onto the end of each quick coupler.

NOTE: Dust covers are color-coded with the control handles. The first section is green.

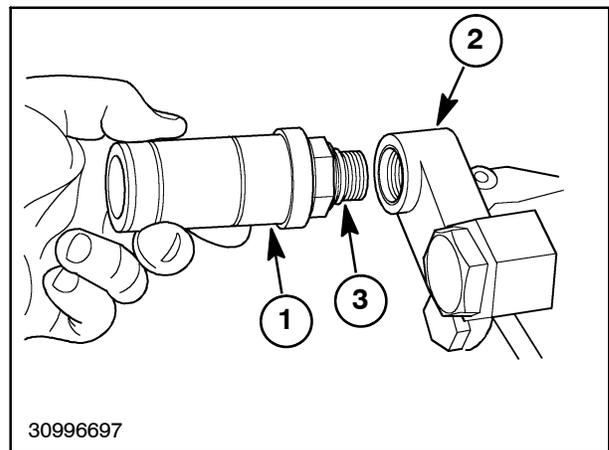


Figure 16

13. Loosely connect power beyond tube, 1, to the 90° fitting, 2. Use an M18 banjo bolt, 3, and sealing washers, 4, to connect the tube to the inlet port of the 3-point hitch inlet valve. Tighten all fittings, including the jam nut on 90° fitting, 5.

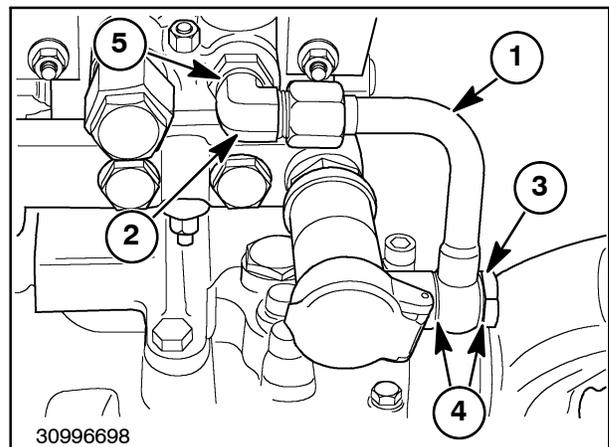


Figure 17

Handle Installation

1. Attach pivot link, 1, to the valve spool with clevis pin and e-clip, 2.
2. Insert master link, 3, through the center hole on the pivot link and pivot support on the valve. Install the master link cover plate and secure with clip, 4.

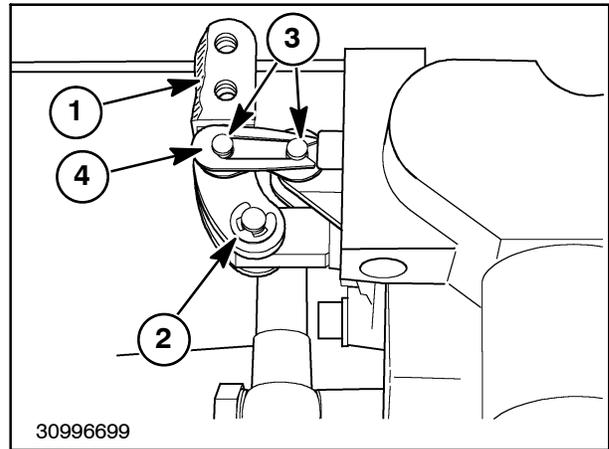


Figure 18

3. Attach cable bracket, 1, to front side of the valve with an M10 x 20 bolt and washer, 2. Place one M10 x 70 bolt, 3, through the cable bracket and valve. Loosely install nut and lock washer, 4.

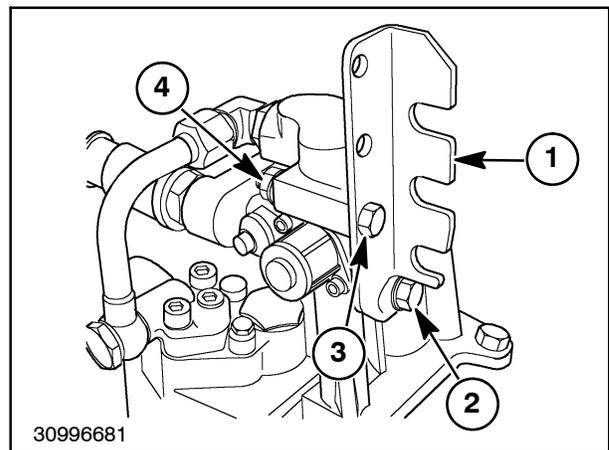


Figure 19

4. Remove four plugs, 1, from the right fender.

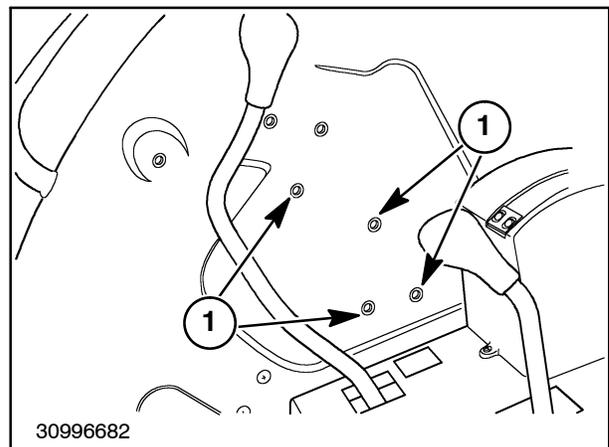


Figure 20

5. Insert the grooved end of control cable, 1, into the hole on the block of lever mounting bracket, 2.

NOTE: The other hole, 3, is for the addition of a second remote valve section.

Secure the cable in the block with M5 x 45 bolt, 4. The groove in the cable must align with the bolt.

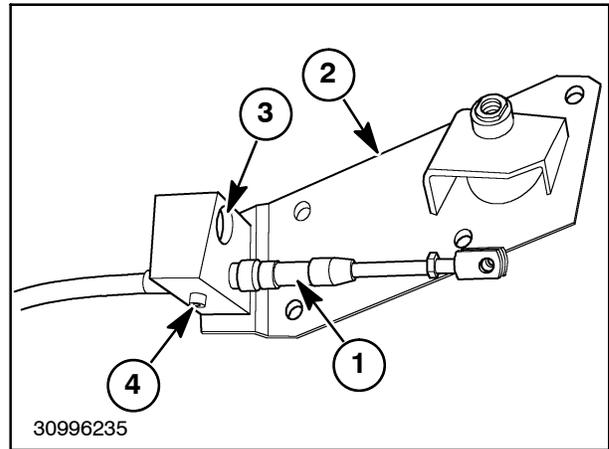


Figure 21

6. Route the control cable through square hole, 1, in the platform floor behind the shift lever. Attach lever mounting bracket, 2, to the right fender, using four M8 x 20 bolts, lock washers, flat washers, and nuts, 3. Place nuts and washers on the outside of the fender. Tighten securely.

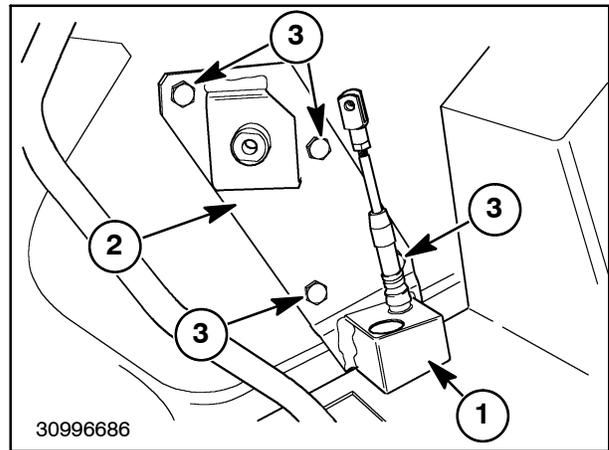


Figure 22

7. Insert one shim, 1, on the pivot pin and then install control lever, 2. The lower tab of the control lever must extend rearward. Install another shim, 1, spacer (washer), 3, another shim, 1, and end washer, 4. The end washer has flats in the inside diameter that require alignment with the pivot pin.

Secure with M10 x 20 bolt, 5, and flat washer, 6.

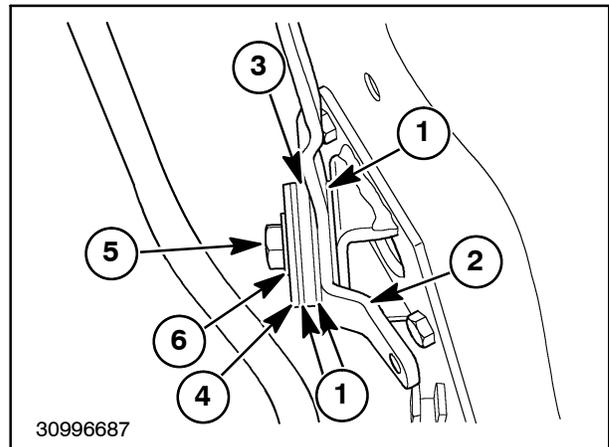


Figure 23

8. Place clip pin, 1, through the cable clevis and lower tab of control lever, 2. Pivot the clip pin so the clip grasps the cable clevis.

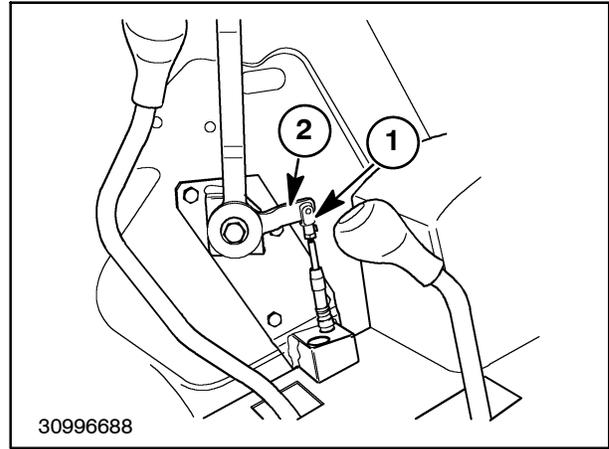


Figure 24

9. Route control cable, 1, rearward to the valve assembly. Place the cable in the bottom slot of cable bracket, 2. Flat washers, 3, and jam nuts, 4, should be on each side of the bracket.
10. Attach cable to previously-installed pivot link, 5, on left side of the valve with clip pin, 6. Pivot the clip pin to grasp the cable clevis.

NOTE: Two holes are located on the pivot link. The forward hole uses less lever effort with longer lever travel and is recommended. The rear hole, 7, provides less lever travel with higher effort.

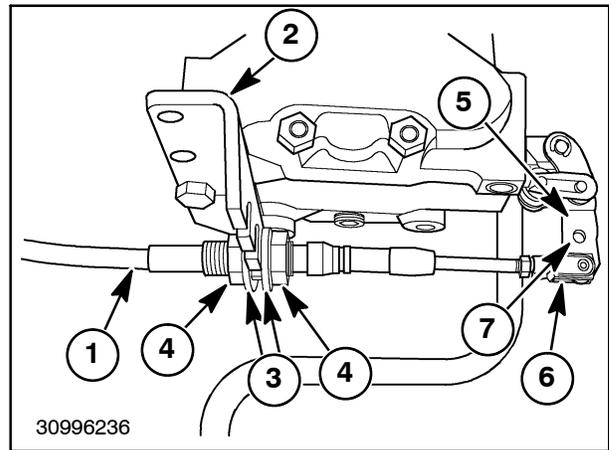


Figure 25

11. Adjust the cable so the lever does not contact the fender. Full spool travel is required. Tighten the jam nuts at the cable bracket. If further adjustment is required, remove the clip pins at either end of the cable and adjust the clevis ends.
12. Remove the nut from the M10 x 70 bolt previously installed through the cable bracket. Install second M10 x 70 bolt through the top valve section. Place new toolbox support bracket, 1, over the bolts and secure with lock washers and nuts, 2.
13. Attach the toolbox to the support. Secure with previously removed bolts and nuts.

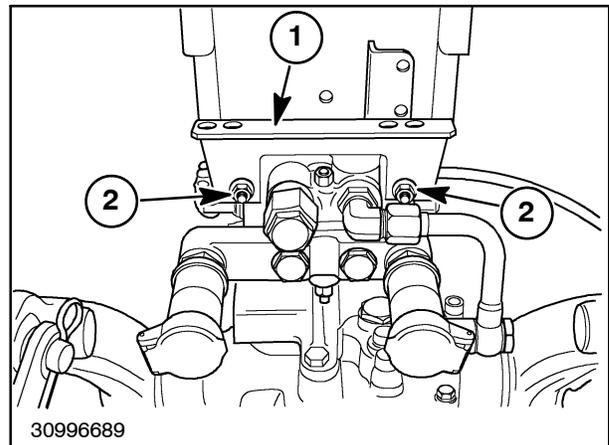


Figure 26

OPERATION

The couplers accept standard 1/2" SAE or ISO tips. The couplers can be connected or disconnected under pressure.

To connect a cylinder hose, open the coupler dust cap. Clean the ends of the hoses before attaching. Insert the male coupler into the female end on the tractor, making sure the coupler is correctly seated.

Actuate the remote valve to supply hydraulic pressure to open the quick coupler.

The left coupler is pressurized when the control lever is moved rearward. The right coupler is pressurized when the lever is moved forward.

For single-acting cylinders, turn screw, 1, counterclockwise against the stop. The screw will extend approximately 6 mm (1/4"). This will allow oil to return freely to the reservoir. Always connect single-acting cylinders to the left coupler.

When operating double-acting cylinders, the screw must be turned fully clockwise to activate the pilot release circuit.

The quick couplers permit remote cylinder hoses to be pulled from the coupler if not disconnected from the tractor with the implement.

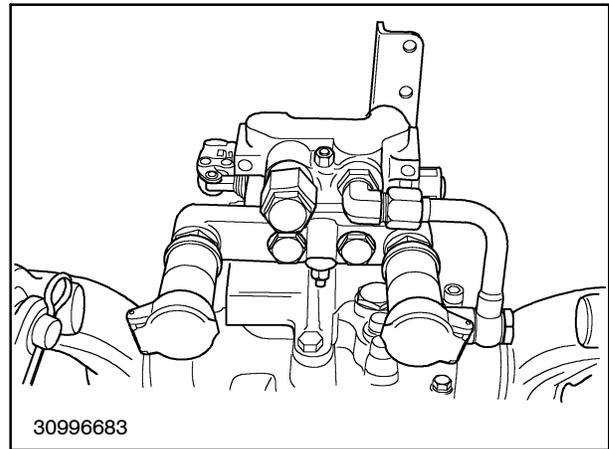


Figure 27

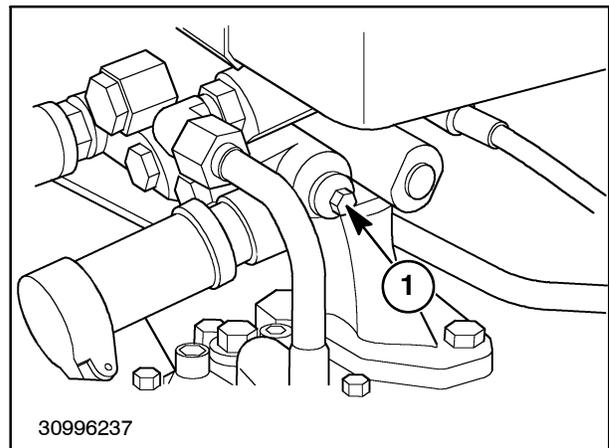


Figure 28



INSTALLATION INSTRUCTIONS

#718365020 2nd REMOTE VALVE
w/LEVER CONTROLS KIT

#719365020 2nd REMOTE VALVE
SECTION W/JOYSTICK CONTROLS
KIT

#718366040 3rd REMOTE VALVE
SECTION

#719366040 4th REMOTE VALVE
SECTION

TRACTORS
TN55, TN65, TN70, TN75

APPROXIMATE INSTALLATION TIME - 1 HOUR (PER SECTION)

The remote valve section kits provide a method to connect and control additional hydraulic actuators, such as cylinders and motors. The 2nd remote valve section kits are to be installed on tractors which have a single remote valve section installed. To install a third section, the second section and a joystick control lever must be installed. To install a fourth section, the third section must be installed.

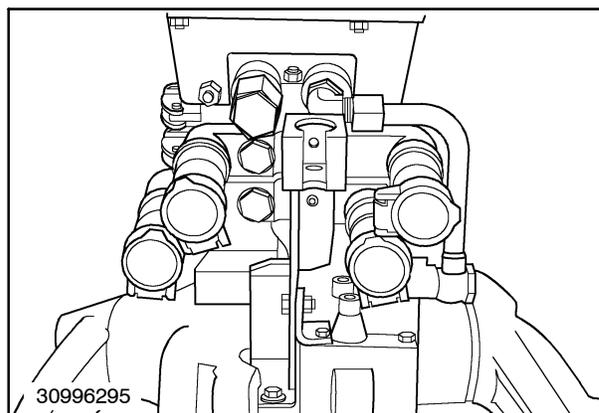


Figure 1

The second section can be operated by a lever installed alongside the first section control lever.

If a loader is to be installed or additional valve sections will be added, the control lever for the second section should be a joystick. Control of the first section will be incorporated into the joystick.

No more than two levers can be installed at a time. If three or four valve sections are installed, the first and second levers must be controlled by a joystick.

The valve is an open-center valve with oil supplied through the remote valve base. Oil is returned through a tube to the center housing.

Valve sections may be installed for control of a maximum of four remote functions. The following table provides information on the different sections.

Section	Control	Section Specifics
1	Lever or Joystick*	Self-Centering
2	Lever or Joystick*	Self-Centering w/Float
3	Lever	Detent with Float
4	Lever	Self-Centering

This instruction sheet covers installation of the second, third, or fourth remote valve section(s) and either type of control.

NOTE: This instruction sheet shows pictures of valves with varying numbers of sections being installed. The pictures do not show the exact order of installation for adding each valve section.

NOTE: Reference to left, right, front, and rear are determined while sitting in the operator's seat.

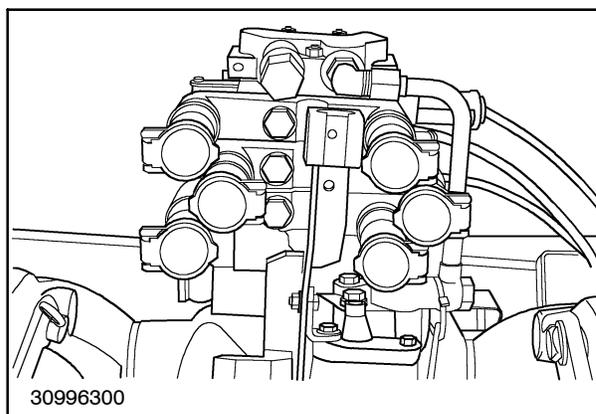


Figure 2

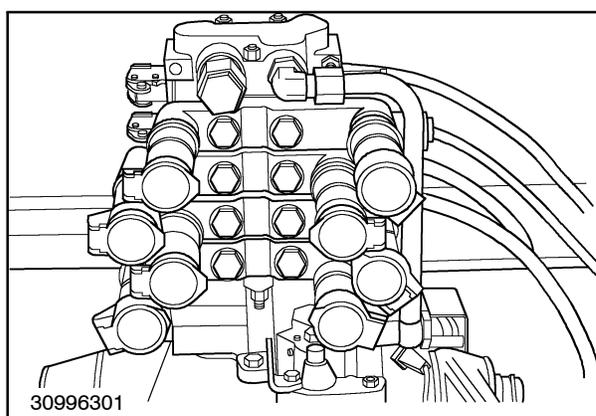
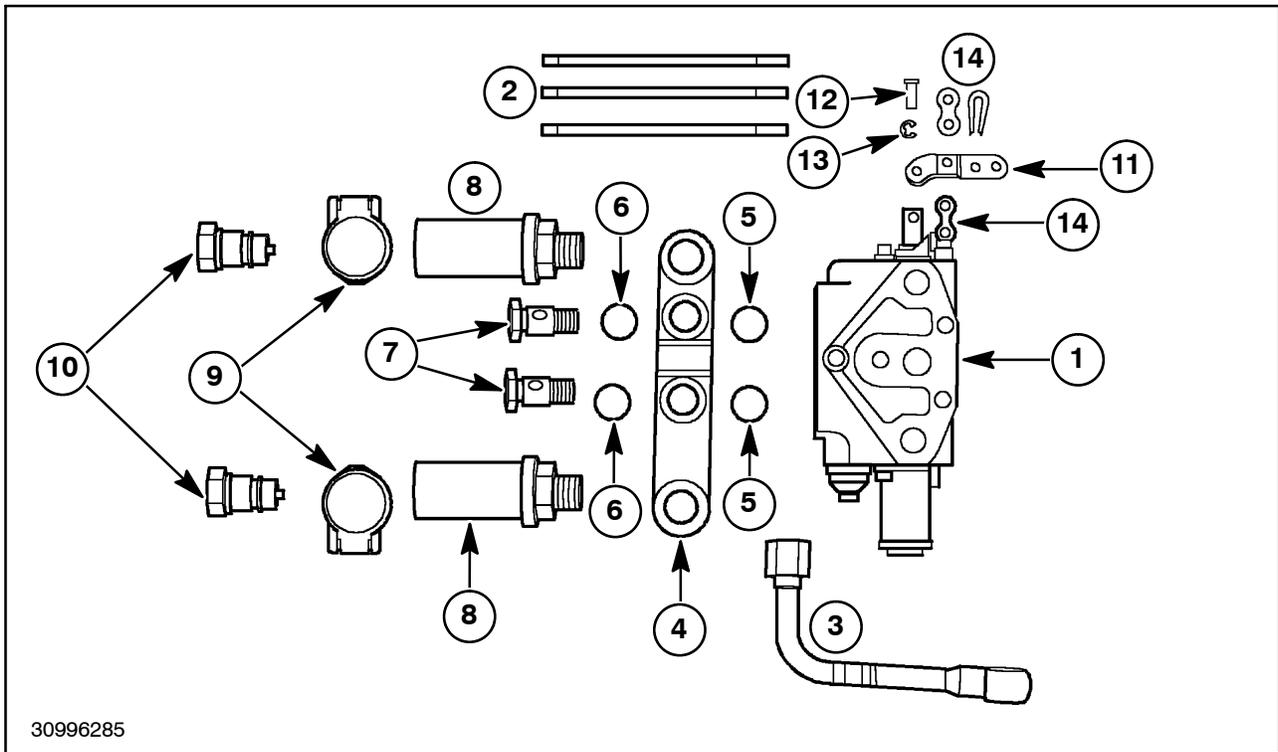


Figure 3



30996285

Figure 4

KIT CONTENTS

Hydraulic Components

Ref.	Description	Qty.	Part No.
1	Valve Section (2nd)	1	5180686
	Valve Section (3rd)	1	5186854
	Valve Section (4th)	1	5161780
2	Tie-Rod (2nd)	3	5151506
	Tie-Rod (3rd)	3	5151505
	Tie-Rod (4th)	3	5149336
3	Tube, Return (2nd)	1	5173694
	Tube, Return (3rd)	1	5173696
	Tube, Return (4th)	1	5175940
4	Manifold	1	5185533
5	O Ring, 15.3 mm	2	14437985
6	O Ring, 19.3 mm	2	5167640
7	Banjo Bolt	2	5168481
8	Coupler, Female	2	5179558
9	Cap, Dust, Blue	2	5179552
	Cap, Dust, Brown	2	5179553
	Cap, Dust, Black	2	5175015
10	Coupler, Male	2	5101741
11	Fork	1	5188877
12	Pin	1	5172456
13	Ring, Retaining	1	11087776
14	Link, Master	1	5116896

Joystick and Cable Components (2nd Section)

Ref.	Description	Qty.	Part No.
1	Joystick Assembly	1	5187782
2	Mounting Bracket	1	5183194
3	Grommet	1	5183500

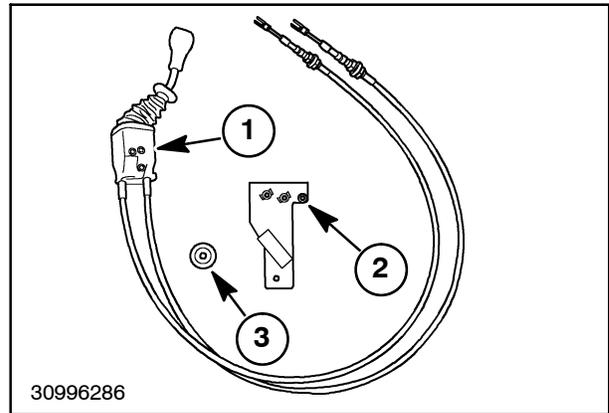


Figure 5

Lever and Cable Components (3rd Section)

1	Mounting Bracket	1	5188902
2	Lever	1	5186974
3	Shim	3	5170694
4	Spacer	1	5170693
5	Washer	1	5188905
6	Screw, M5 x 45	1	14358924
7	Cable	1	5186977
8	Knob, Brown	1	5179317

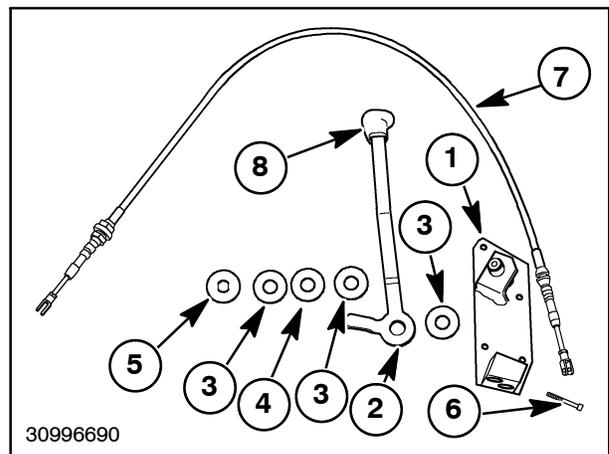


Figure 6

Lever and Cable Components (2nd and 4th Section)

1	Lever	1	5186975
2	Cable	1	5186977
3	Knob, Blue (2nd)	1	5179616
	Knob, Black (4th)	1	5155788
4	Cable Bracket	1	5179944
	(4th Section Only)		

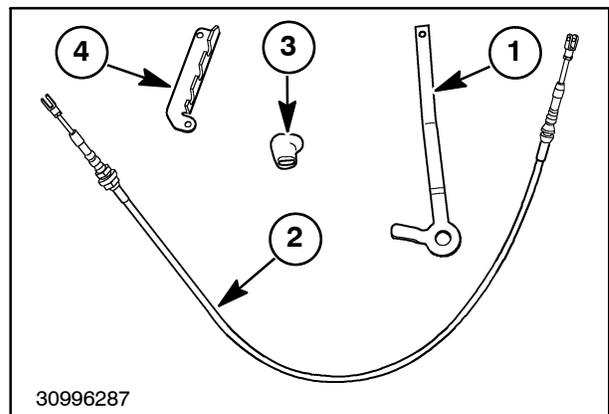


Figure 7

KIT INSTALLATION

Valve Section

1. Remove toolbox and toolbox bracket, 1. Bracket bolts, 2, must be removed. Cable support bracket, 3, may stay attached with the lower bolt.

NOTE: Removal of the top link storage bracket will aid access but is not necessary.

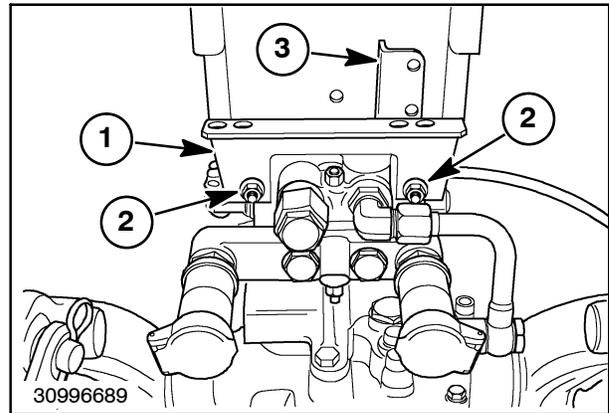


Figure 8

2. Loosen nut, 1 on return tube, 2. Remove banjo bolt, 3, and return tube. Do not lose sealing washers on banjo bolt.
3. Remove nuts from the bottom of tie rods, 4, and remove the tie rods. Lift outlet section, 5, (top) from valve stack.

NOTE: Do not lose backup or O rings from the bottom of the outlet section when removing.

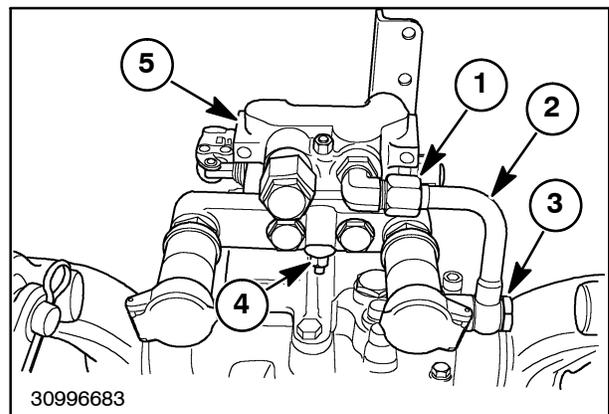


Figure 9

4. Place new tie rods, 1, through the support and installed sections for the quantity of sections to be added. Place nut and washer, 2, on the bottom of each tie rod.

NOTE: Use tie rods from the last section to be installed, i.e. if installing to the third section, use tie rods from 3rd section kit.

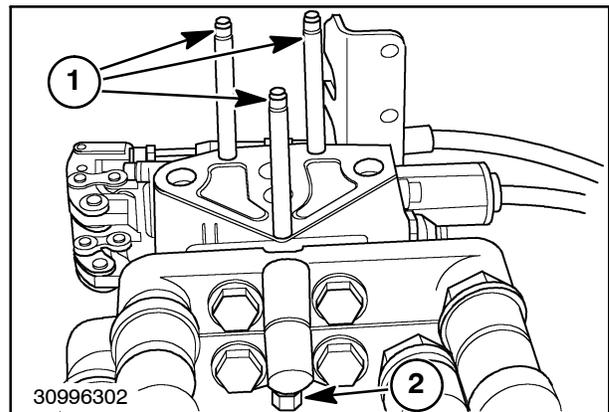


Figure 10

5. Ensure O rings and backup rings are installed in the grooves on the bottom of each new section. If necessary, use petroleum jelly to keep O rings and backup rings in position. Slide each new section over the tie rods and down against the existing section.

NOTE: The working sections are not interchangeable. Each section must be installed in the intended position.

6. Ensure O rings and backup rings are installed in the grooves on the bottom of the outlet (top cover) section. Use petroleum jelly to hold in place. Position the outlet section over the tie rods and lower down against the previously installed section.
7. Place a nut, 1, on the end of each tie rod. Hand-tighten the nut until it bottoms against the end of the threads. Tighten the nuts on the bottom of the tie rods and torque to 58-66 N·m (43-48 ft. lbs.).

8. Install O rings on the back of manifold(s), 1, and on banjo bolts, 2. Secure the manifold(s) to each valve section, using banjo bolts.

NOTE: Manifolds are offset. Alternate manifolds so Section 1 extends to left, Section two extends to the right, Section 3 extends to the left, and Section 4 extends to the right.

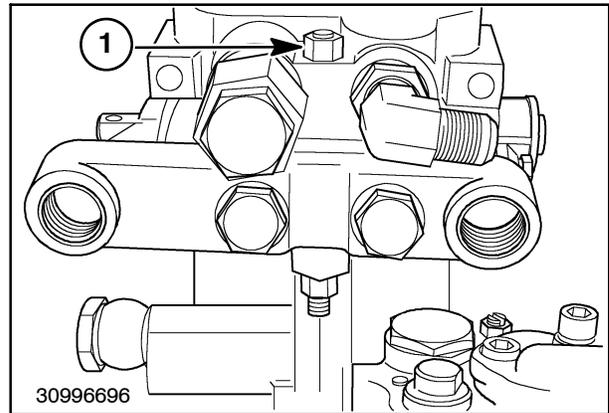


Figure 11

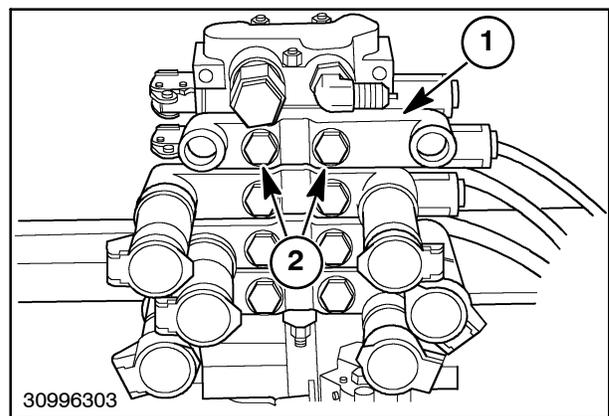


Figure 12

9. Attach female quick couplers, 1, to manifold(s), 2. Be sure O ring, 3, is on the threaded portion of the coupler.
10. Snap correct color dust covers onto each quick coupler.

Position Color

- | | |
|---|-------|
| 1 | Green |
| 2 | Blue |
| 3 | Brown |
| 4 | Black |

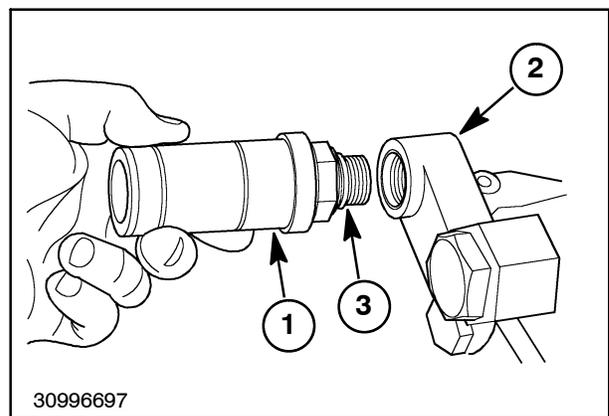


Figure 13

- Loosen jam nut, 1, on 90° fitting, 2, to allow proper alignment. Connect return tube, 3, to the fitting and 3-point hitch control valve, using banjo bolt, 4, and sealing washers previously removed.

NOTE: Use the return tube from the last section to be installed, i.e. if installing to the third section, use the return tube from the 3rd section kit.

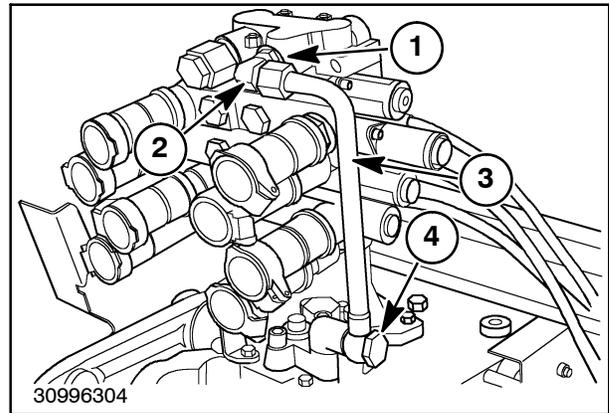


Figure 14

- Attach pivot link, 1, to master link, 2, and secure with cover plate and clip, 3.

NOTE: Use the cover plate and clip from the additional master link shipped with the kit. It is not necessary to remove the master link installed on the valve before shipment.

- Install the clevis pin through the spool end and secure with an e-clip, 4.

Lever Control Bracket

NOTE: Use this installation for installing the control lever bracket, if not previously installed (3rd remote valve kit).

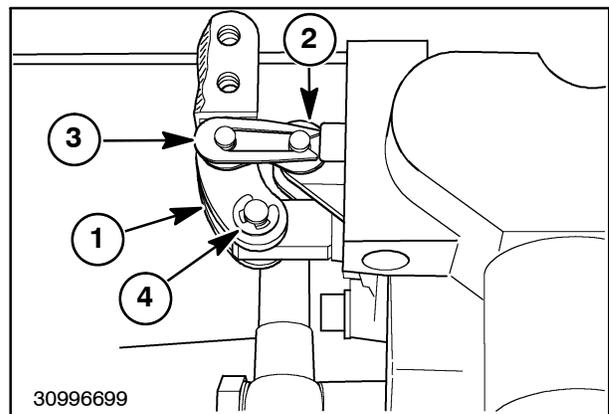


Figure 15

- Remove four plugs, 1, from the right fender.

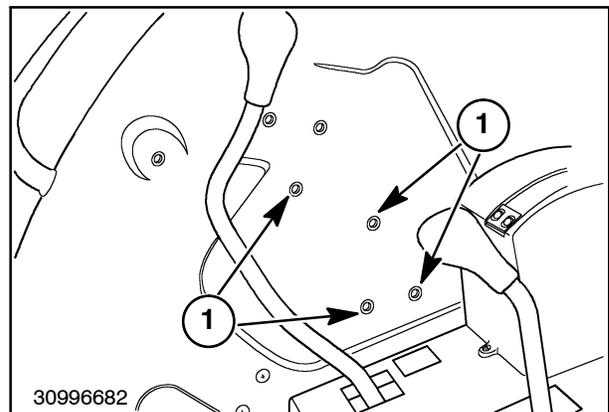


Figure 16

[s-installation-instructions-supplement-manual/](https://www.arepairmanual.com/downloads/new-holland-tn-series-installation-instructions-supplement-manual/)

2. Insert the grooved end of control cable, 1, into the hole on the block of lever mounting bracket, 2.

NOTE: The other hole, 3, is for the addition of a fourth remote valve section.

Secure the cable in the block with M5 x 45 bolt, 4. The groove in the cable must align with the bolt.

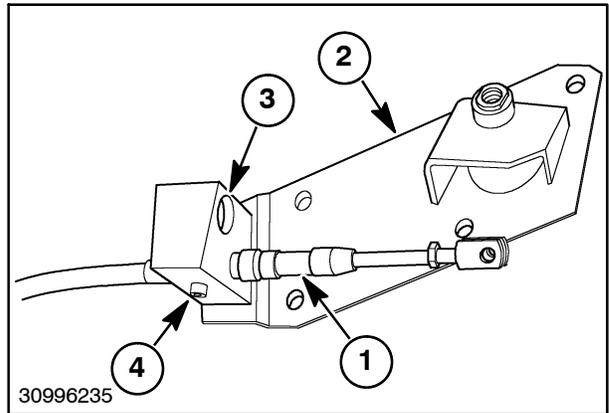


Figure 17

3. Route the control cable through square hole, 1, in the deck cover. Attach lever mounting bracket, 2, to the right fender, using four M8 x 20 bolts, lock washers, flat washers, and nuts, 3. Place nuts and washers on the outside of the fender. Tighten securely.

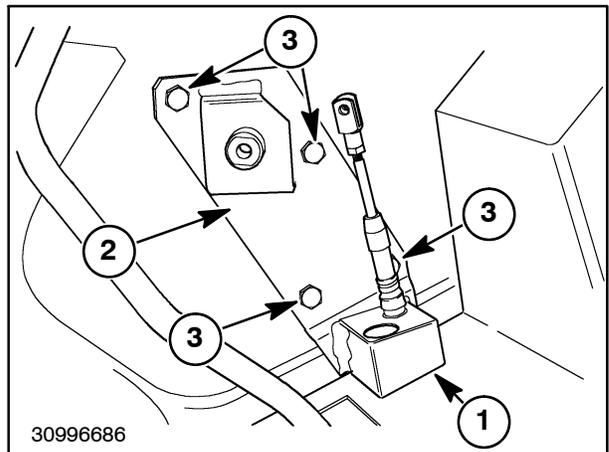


Figure 18

4. Insert one shim, 1, on the pivot pin and then install control lever, 2. The lower tab of the control lever must extend rearward. Install another shim, 1, spacer (washer), 3, another shim, 1, and end washer, 4. The end washer has flats in the inside diameter that require alignment with the pivot pin.

Secure with M10 x 20 bolt, 6, and a flat washer.

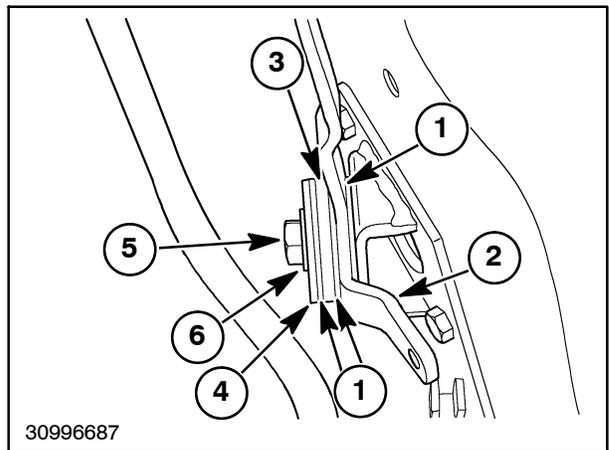


Figure 19