

Power Beyond Coupler Kit

Package with: RE217697



JOHN DEERE

INSTALLATION INSTRUCTIONS AR194468 30AUG04 (ENGLISH)

**8000 Series Wheel ONLY, 8000 TEN Series
Wheel and Track, and 8020 Series Wheel and
Track Tractors**

**John Deere Waterloo Works
AR194468 (30AUG04)**

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A John Deere ILLUSTRATION® Manual
AR194468-19-30AUG04

Parts List

Part Number	Service Part Number	Quantity	Description
AR194468		1	Installation Instructions
R125531		1	Cap, Dust, Auxiliary Pressure Coupler
RE161000		2	Coupler, Body, Assembly
R124807		1	Plug, Dust, Auxiliary Outlet Coupler
19M7168		1	Cap Screw M10 x 30 mm
24M7040		1	Washer, 11 x 20 x 2 mm
14M7274		1	Nut, Hex
RE49091		1	Connector, Straight Adjustable With O-Ring
61M5105	38H5105 & 2-T77613	1	Tee, Swivel Run With O-Ring
N202662		1	Plate, Orifice
T77613		2	Packing, O-Ring, 9.25 x 1.78 mm
61M5016	38H5016 & 1-T77613	2	Elbow, 90 Degree Adjustable With O-Ring
RE215402		1	Hose, Oil
RE58763		1	Spacer, Short Load Sense Shuttle With O-Ring
RE213458		1	Spacer, Standard Cover, Long Load Sense Shuttle With O-Ring*
R196840		1	Shuttle, Load Sense
RE61319		1	Body, Coupler, Assembly
R152879		1	Packing, O-Ring
R118245		1	Ring, Retaining
AH83821		1	Plug, Dust, Load Sense Coupler
RE206437		1	Hose, Hydraulic
51M7041		1	Packing, O-Ring, 11.3 x 2.2 mm
R112397		1	Bracket
22H912		1	Screw, Set Hex, Power Beyond Load Sense

* Use RE213458 Load Sense Shuttle (Long) Spacer with O-Ring For Standard V2 Top End Cover and Standard V3 Top End Cover with Relief Valve Only.

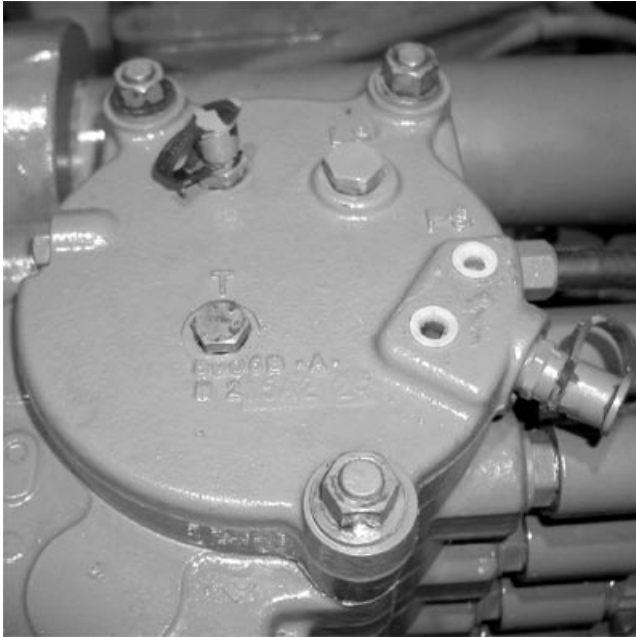
Not all parts may be used, depending on type of top end cover.

These Parts Are Required For Track Tractors. Must Order Through Parts:

1—R117724 Bracket and 2—RE151934 Adapters

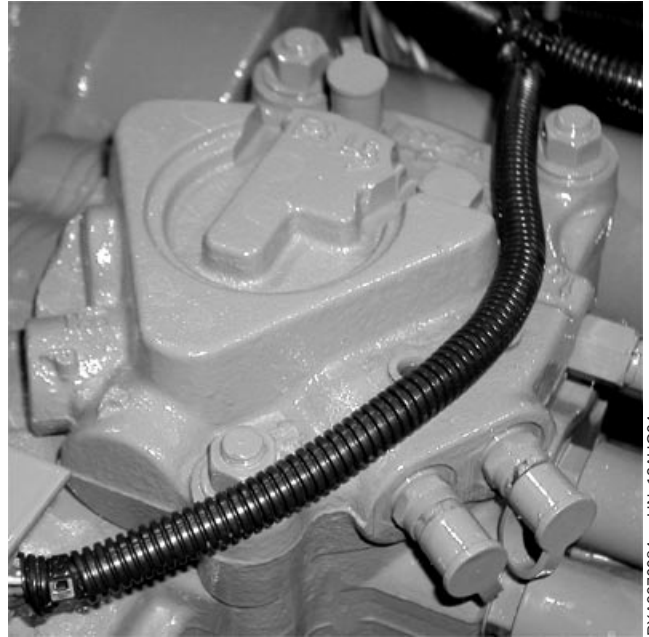
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SCV Top End Cover Identification for 8020 Tractors



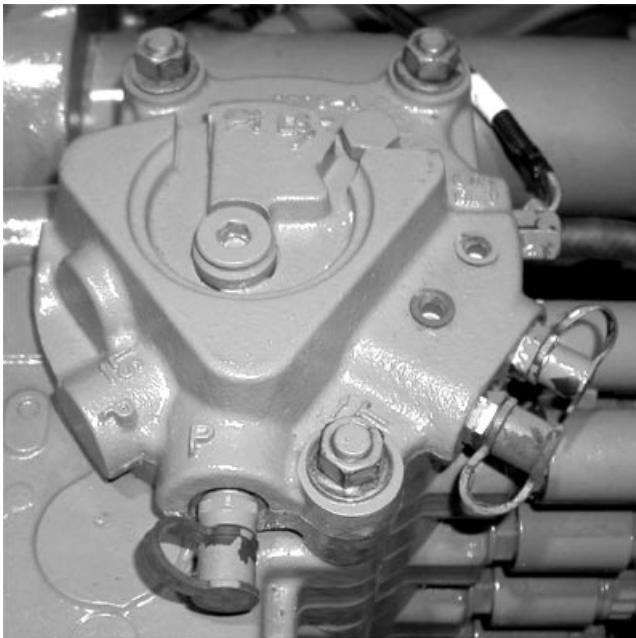
RXA0076985 -UN-12AUG04

Standard V1 Top End Cover



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Standard V2 Top End Cover



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Standard V3 Top End Cover With Relief Valve

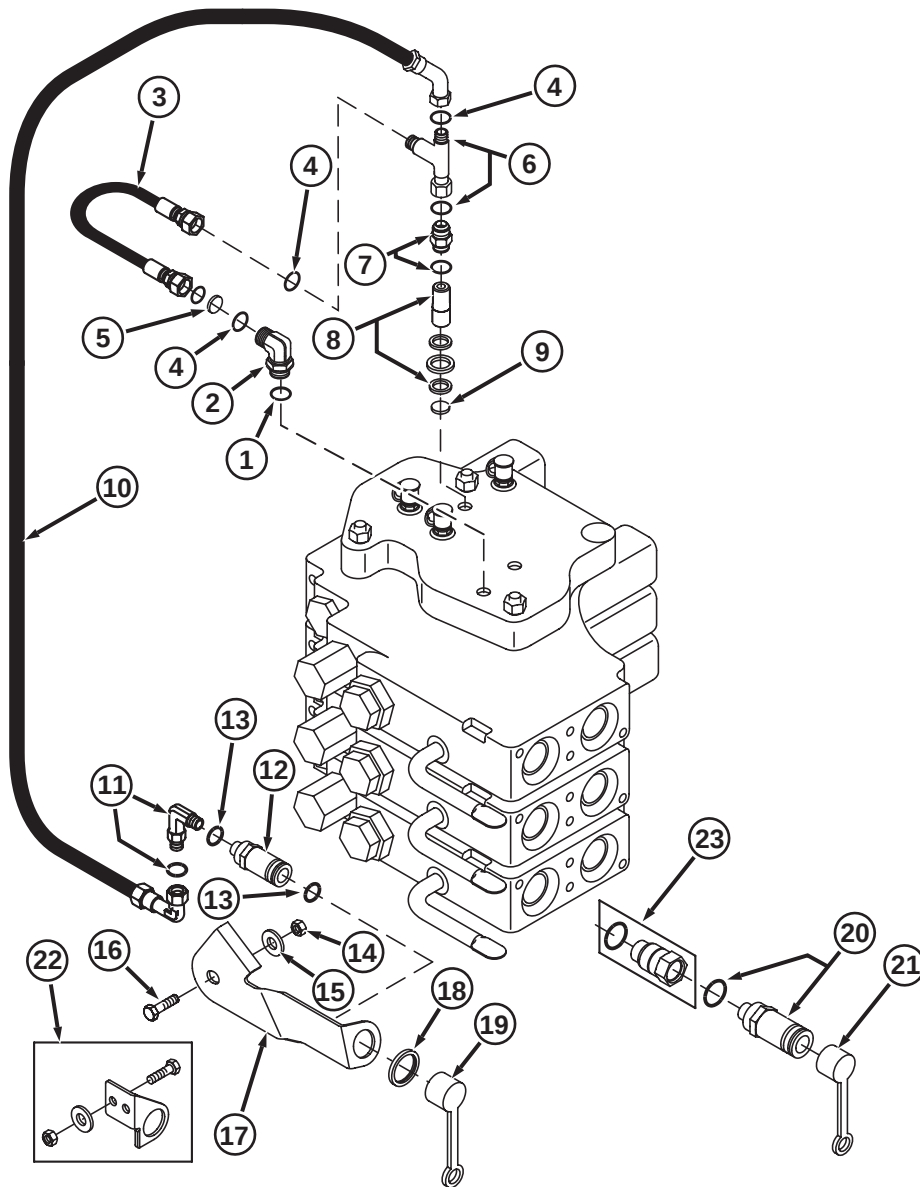


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Deluxe V1 Top End Cover

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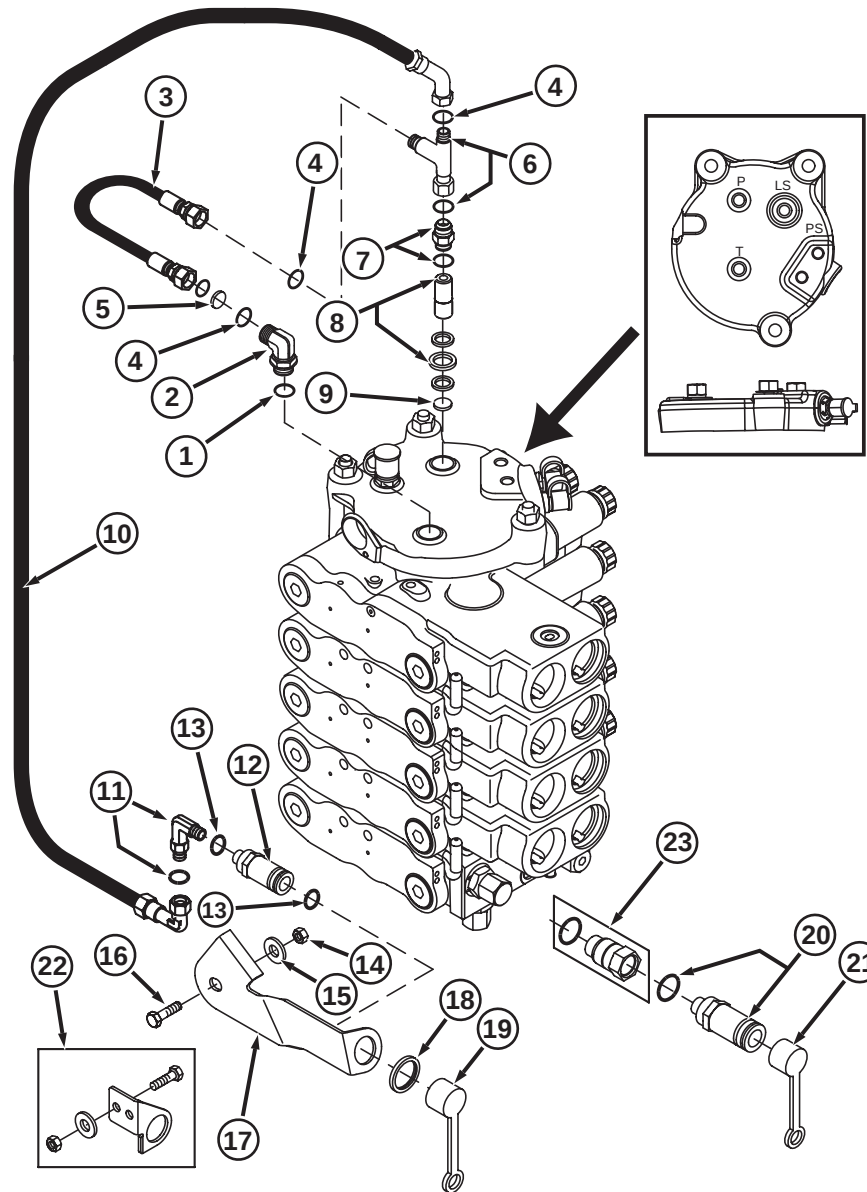
8000 Wheel, 8000 TEN Series Wheel and Track Power Beyond Coupler Kit



- | | | | |
|--|--------------------------------------|--|---|
| 1—T77613 O-Ring | 8—R58673 Spacer (Short) | 13—R152879 O-Ring | 20—RE161000 Hydraulic Coupler |
| 2—38H5016 Elbow Fitting | 9—R196840 Load Sense Shuttle | 14—14M7274 Nut | 21—R125531 Dust Cap |
| 3—RE215402 Bleed Hose | 10—RE206437 Load Sense Hose | 15—24M7040 Washer | 22—R117724 Bracket (For Track Tractor) |
| 4—T77613 O-Ring | 11—38H5016 Elbow With T77613 O-Rings | 16—19M7168 Cap Screw | 23—RE151934 Adapter (For Track Tractor) |
| 5—N202662 Plate Orifice with O-Ring | 12—R61319 Hydraulic Coupler | 17—R112397 Bracket (For Wheel Tractor) | |
| 6—38H5105 Tee Fitting with Swivel | | 18—R118245 Retaining Ring | |
| 7—RE49091 Straight Connector With O-Ring | | 19—AH83821 Dust Cap | |

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8020 Series Power Beyond Coupler Kit- Standard V1 Top End Cover



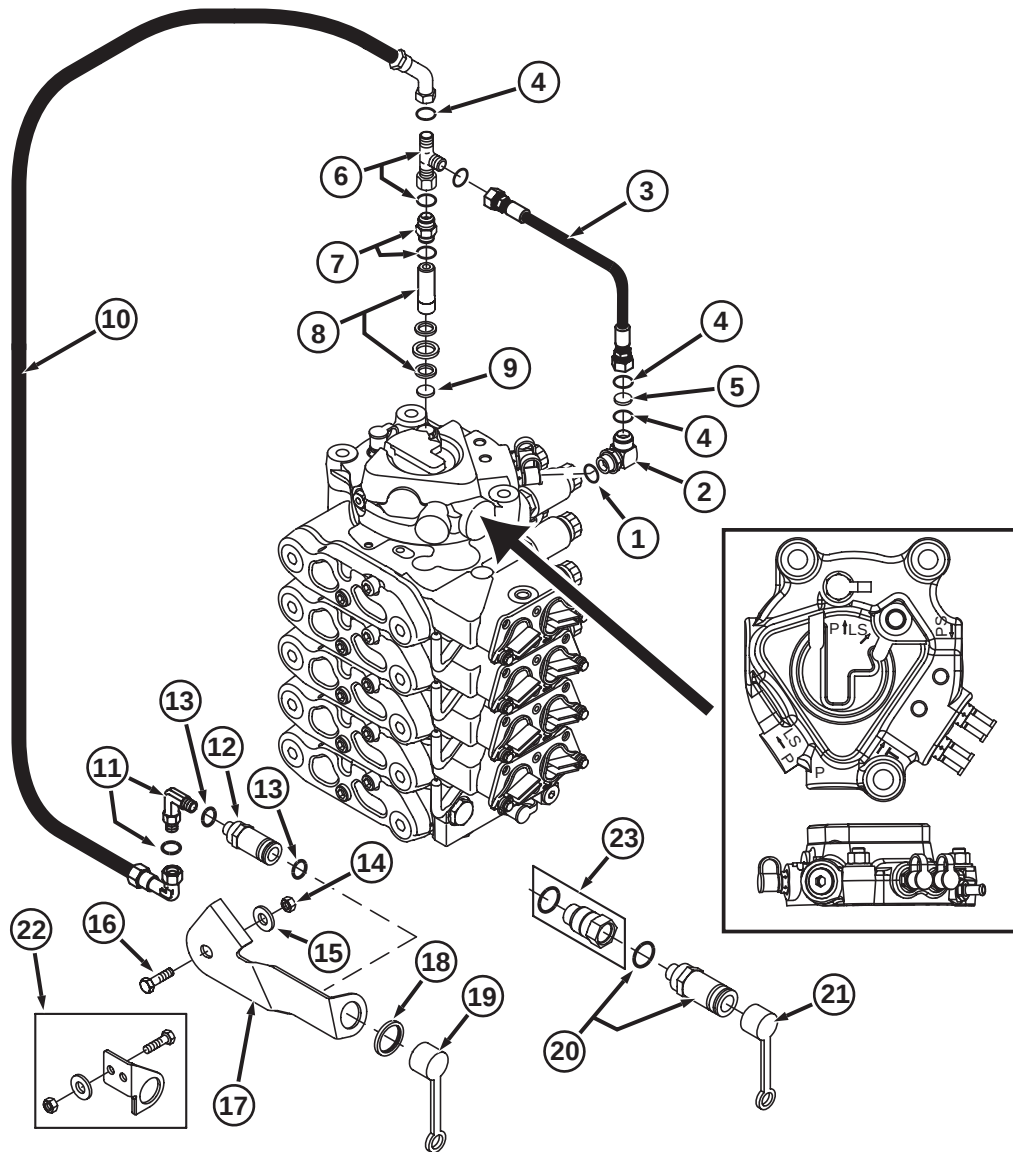
1—T77613 O-Ring
 2—38H5016 Elbow Fitting
 3—RE215402 Bleed Hose
 4—T77613 O-Ring
 5—N202662 Plate Orifice with O-Ring
 6—38H5105 Tee Fitting with Swivel
 7—RE49091 Straight Connector With O-Ring

8—R58673 Spacer (Short)
 9—R196840 Load Sense Shuttle
 10—RE206437 Load Sense Hose
 11—38H5016 Elbow With T77613 O-Rings
 12—R61319 Hydraulic Coupler

13—R152879 O-Ring
 14—14M7274 Nut
 15—24M7040 Washer
 16—19M7168 Cap Screw
 17—R112397 Bracket (For Wheel Tractor)
 18—R118245 Retaining Ring
 19—AH83821 Dust Cap

20—RE161000 Hydraulic Coupler
 21—R125531 Dust Cap
 22—R117724 Bracket (For Track Tractor)
 23—RE151934 Adapter (For Track Tractor)

8020 Series Power Beyond Coupler Kit - Standard V2 Top End Cover



- 1—T77613 O-Ring
- 2—38H5016 Elbow Fitting
- 3—RE215402 Bleed Hose
- 4—T77613 O-Ring
- 5—N202662 Plate Orifice with O-Ring
- 6—38H5105 Tee Fitting with Swivel
- 7—RE49091 Straight Connector With O-Ring

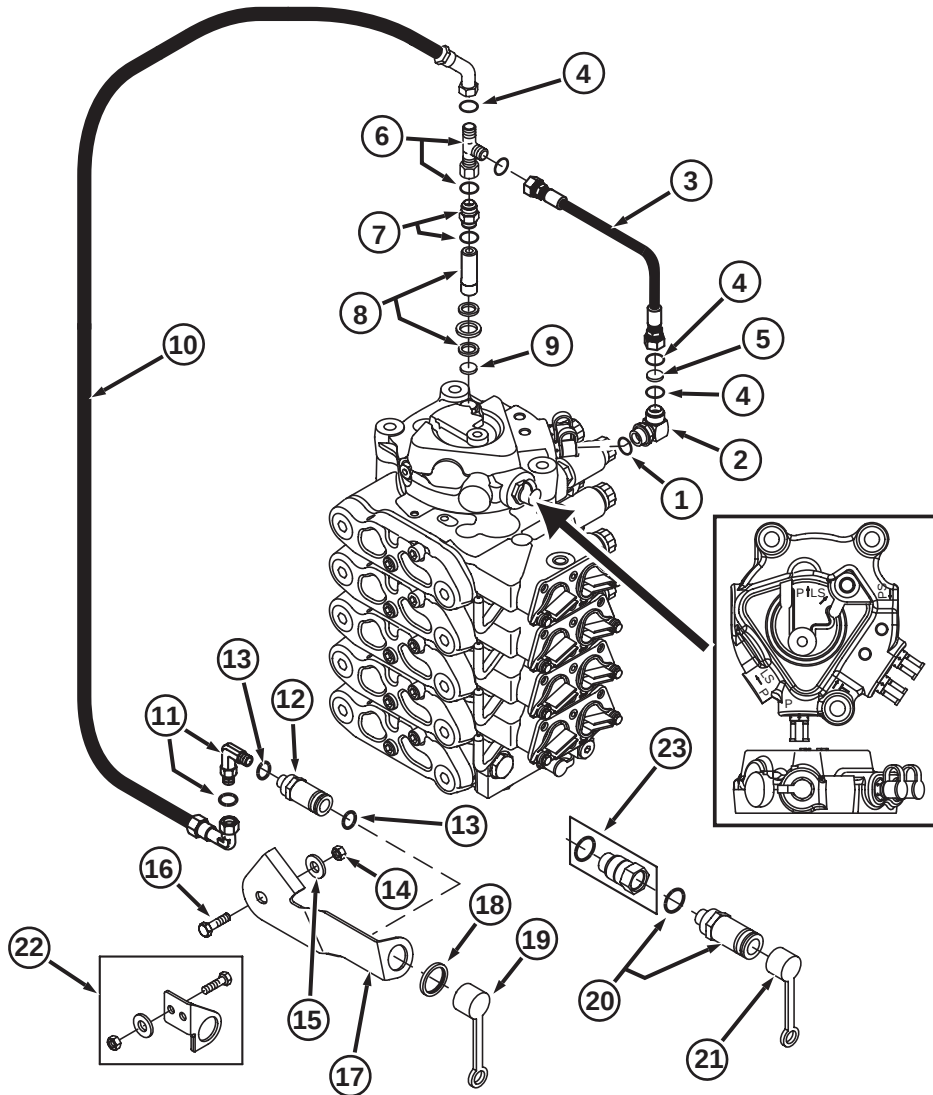
- 8—RE213458 Spacer (Long)
- 9—R196840 Load Sense Shuttle
- 10—RE206437 Load Sense Hose
- 11—38H5016 Elbow With T77613 O-Rings
- 12—R61319 Hydraulic Coupler

- 13—R152879 O-Ring
- 14—14M7274 Nut
- 15—24M7040 Washer
- 16—19M7168 Cap Screw
- 17—R112397 Bracket (For Wheel Tractor)
- 18—R118245 Retaining Ring
- 19—AH83821 Dust Cap

- 20—RE161000 Hydraulic Coupler
- 21—R125531 Dust Cap
- 22—R117724 Bracket (For Track Tractor)
- 23—RE151934 Adapter (For Track Tractor)

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8020 Power Beyond Coupler Kit - Standard V3 Top End Cover with Relief Valve



- 1—T77613 O-Ring
- 2—38H5016 Elbow Fitting
- 3—RE215402 Bleed Hose
- 4—T77613 O-Ring
- 5—N202662 Plate Orifice with O-Ring
- 6—38H5105 Tee Fitting with Swivel
- 7—RE49091 Straight Connector With O-Ring

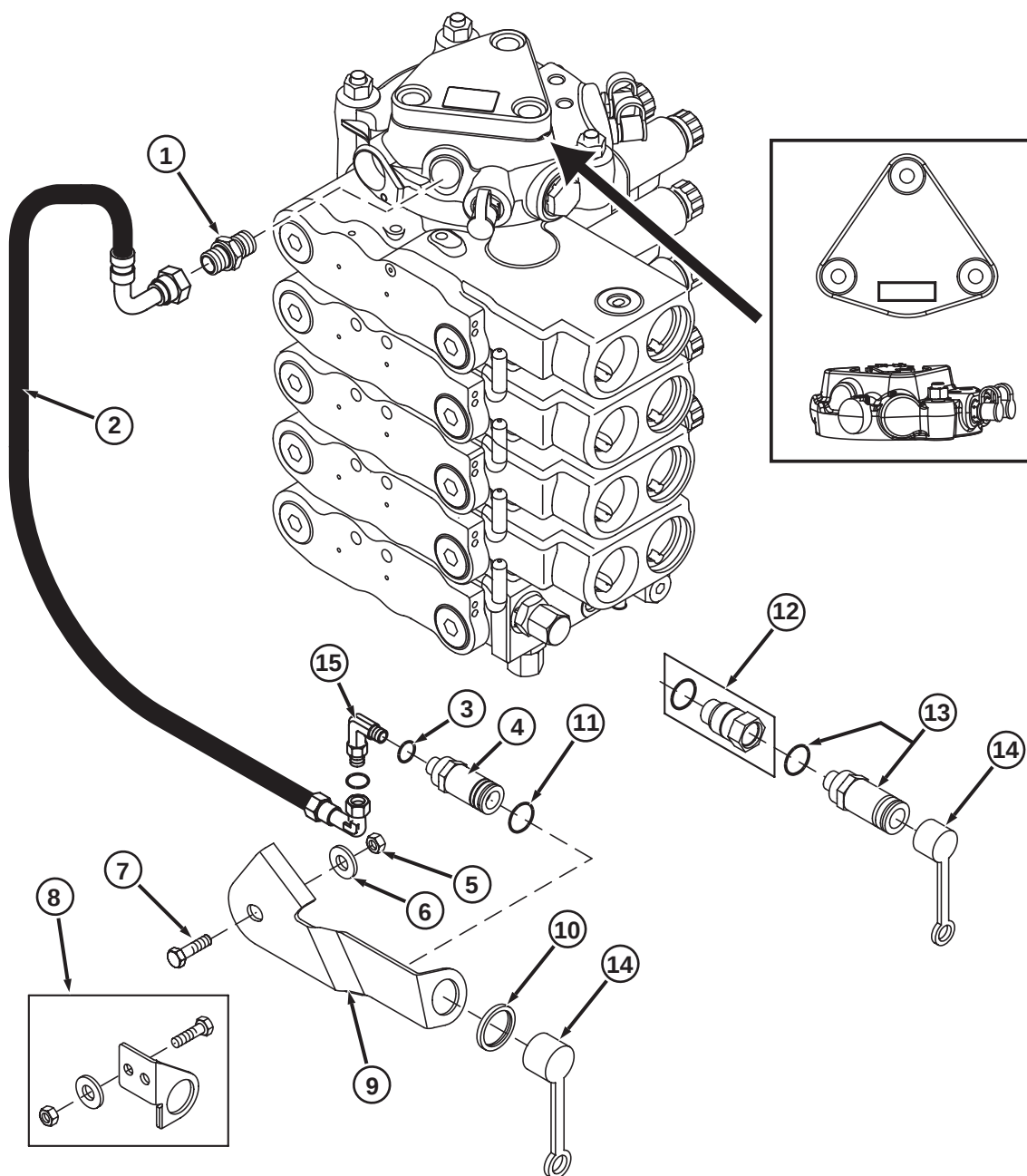
- 8—RE213458 Spacer (Long)
- 9—R196840 Load Sense Shuttle
- 10—RE206437 Load Sense Hose
- 11—38H5016 Elbow With T77613 O-Rings
- 12—R61319 Hydraulic Coupler

- 13—R152879 O-Ring
- 14—14M7274 Nut
- 15—24M7040 Washer
- 16—19M7168 Cap Screw
- 17—R112397 Bracket (For Wheel Tractor)
- 18—R118245 Retaining Ring
- 19—AH83821 Dust Cap

- 20—RE161000 Hydraulic Coupler
- 21—R125531 Dust Cap
- 22—R117724 Bracket (For Track Tractor)
- 23—RE151934 Adapter (For Track Tractor)

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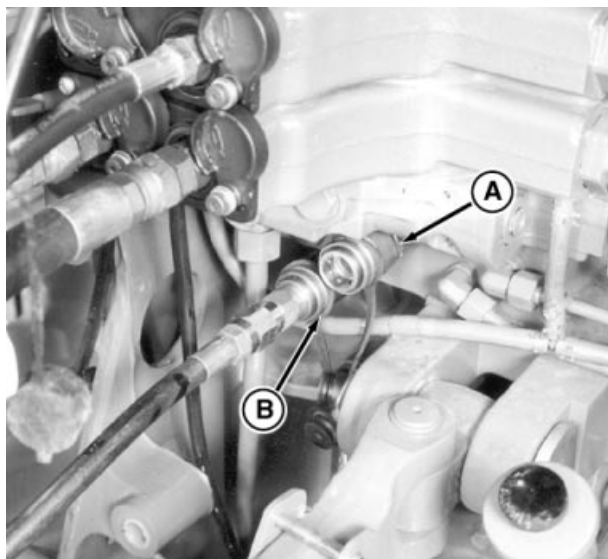


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|---|---------------------------------------|---|--------------------------------------|
| 1—RE49091 Straight Connector With O-Rings | 5—14M7274 Nut | 10—R118245 Retaining Ring | 14—R125531 Dust Cap |
| 2—RE206437 Load Sense Hose | 6—24M7040 Washer | 11—AH83821 Dust Cap | 15—38H5016 Elbow With T77613 O-Rings |
| 3—R152879 O-Ring | 7—19M7168 Cap Screw | 12—RE151934 Adapter (For Track Tractor) | |
| 4—RE61319 Hydraulic Coupler | 8—R117724 Bracket (For Tractor) | 13—RE161000 Hydraulic Coupler | |
| | 9—R112397 Bracket (For Wheel Tractor) | | |

8000, 8000 TEN And 8020 Series Wheel Tractors Power Beyond Coupler Installation

1. Remove plug from auxiliary pressure port (A) and auxiliary return port (B).
2. Install RE161100 coupler body assembly (A and B) with R124807 dust plug in each port.

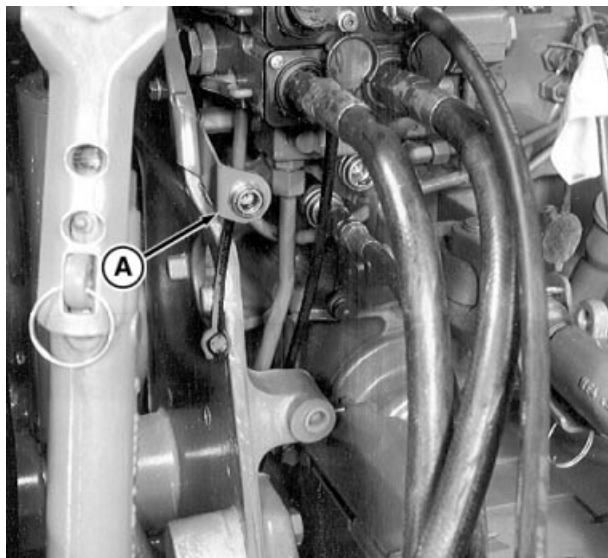
A—Pressure Port
B—Return Port



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3. Install load sense bracket (A) to hitch frame using one 19M7168 cap screw.
4. Install coupler assembly to bracket using retaining ring.

A—Load Sense Bracket



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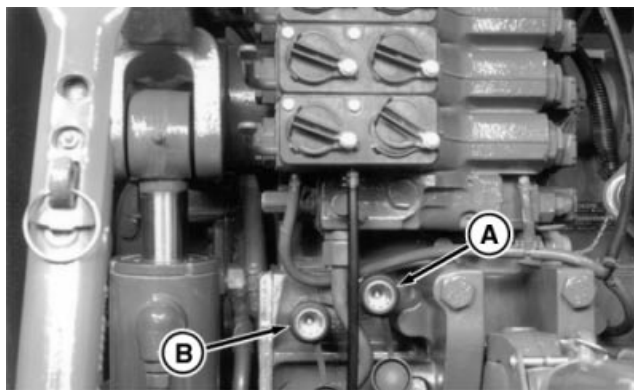
8000 TEN And 8020 Series Track Tractors Power Beyond Coupler Installation

1. Remove plug from pressure (A) and return (B) ports.
2. Install RE161000 coupler body with RE151934 adapter and dust plug in ports (A and B).

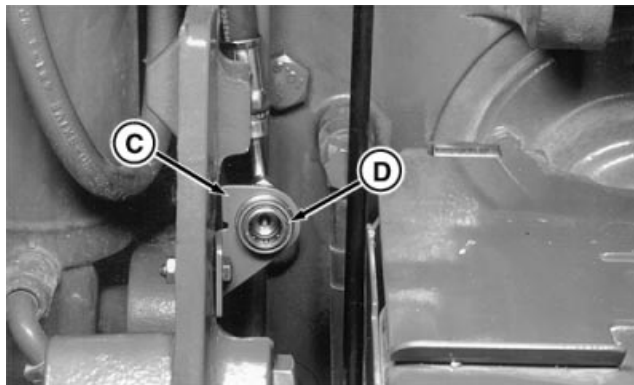
NOTE: Use rear hole in bracket when mounting to hitch frame.

3. Install R117724 load sense bracket (C) to hitch frame using 19M7168 cap screw, 24M7040 washer, and 14M7274 nut.
4. Install RE61319 load sense coupler (D) to bracket using retaining ring.

A—Pressure Coupler
B—Return Coupler
C—Bracket
D—Load Sense Coupler



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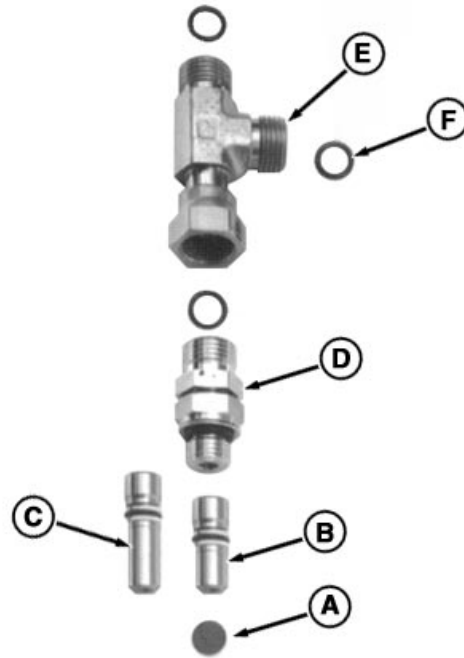
8000 Wheel, 8000 TEN Wheel and Track Tractors with Standard Top End Cover and 8020 Wheel and Track Tractors with Standard V1, V2 or V3 Top End Covers

1. Remove plug from "LS" port and diagnostic receptacle from the "T" port on SCV top end cover.
2. Install the following parts in "LS" port:

- R196840 load sense shuttle (A)
- Load sense shuttle spacer (B) or (C) with O-Rings, **with threaded end up.**

IMPORTANT: Use RE58763 {short} for 8000 wheel, 8000 TEN wheel and track and 8020 wheel and track with standard V1 top end cover. Use RE213458 {long} for 8020 wheel and track with standard V2 top end cover and standard V3 top end cover with relief valve.

- RE49091 straight adjustable connector (D) with O-Ring . Loosen jam nut and turn connector until firmly seated against spacer (B). Tighten connector jam nut.
- 38H5105 swivel run tee (E) with T77613 O-Rings.
- T77613 O-Ring (F).



A—R196840 Load Sense Shuttle
B—RE58763 Spacer (Short)
C—RE213458 Spacer (Long)
D—RE49091 Straight Adjustable Connector
E—38H5105 Swivel-Run Tee
F—T77613 O-Ring

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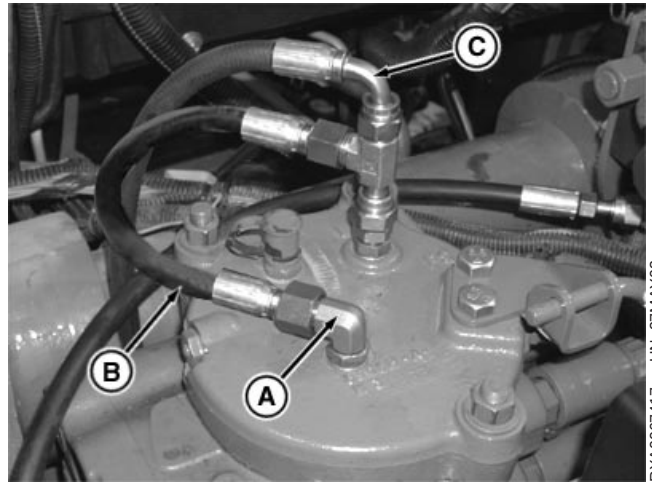
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3. Install 90 degree adjustable elbow with O-Ring (A) in "T" port. Place T77613 O-Ring on elbow face.

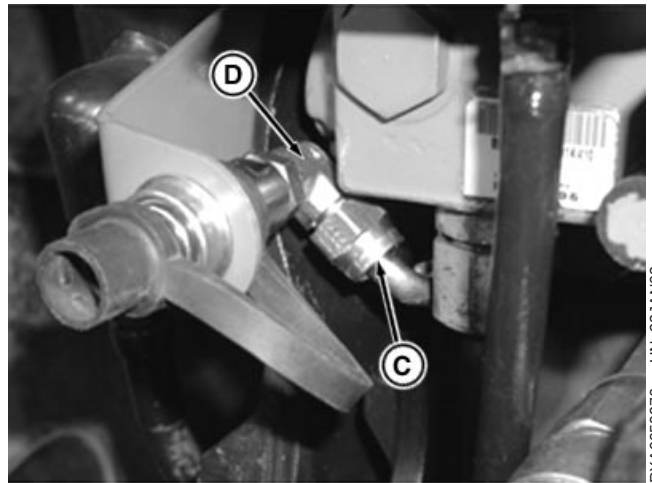
NOTE: Reference diagrams on pages 2 through 6 at front of instruction for placement of plate orifice.

4. Place plate orifice with O-ring in RE215402 load sense bleed hose between fitting and elbow (O-ring facing fitting and flat side facing elbow) and install hose (B) to elbow (A).
5. Connect other end of bleed hose to 38H5105 swivel run tee.
6. Install RE206437 load sense hose (C) to 38H5105 swivel run tee and to coupler using 38H5016 90 ° elbow (D).
7. Install dust plug on coupler.

A—Elbow
B—Hose
C—Elbow
D—Elbow



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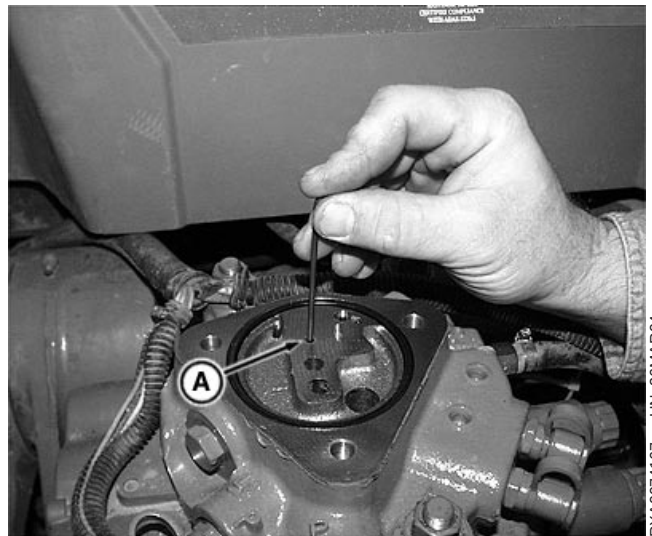
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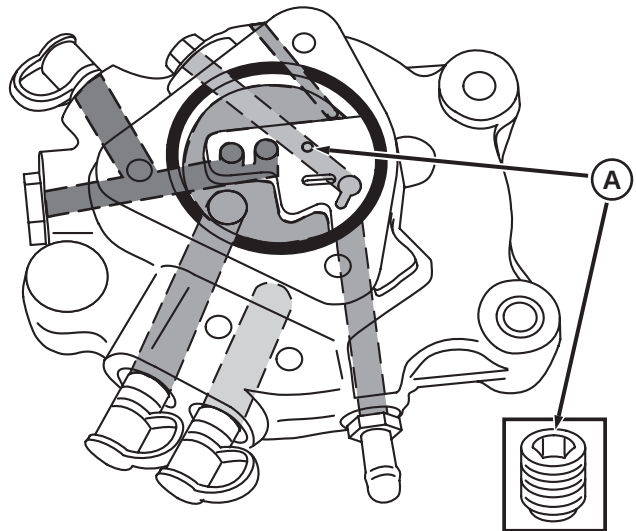
8020 Wheel And Track Tractors (Deluxe V1 Top End Cover)

1. Remove end plate from top end cover.
2. Install 22H912 set screw (A) in SCV housing.
3. Reinstall end plate on top end cover. Tighten cap screws to 50 N•m (37 lb-ft).
4. Remove plug from 'LS' port and install RE49091 straight connector (B) with O-ring. Place T77613 O-ring on connector face.
5. Install RE206437 power beyond load sense hose to coupler hose (C).
6. Install AH83821 dust plug on coupler.

A—Set Screw
B—Straight Connector
C—Hose

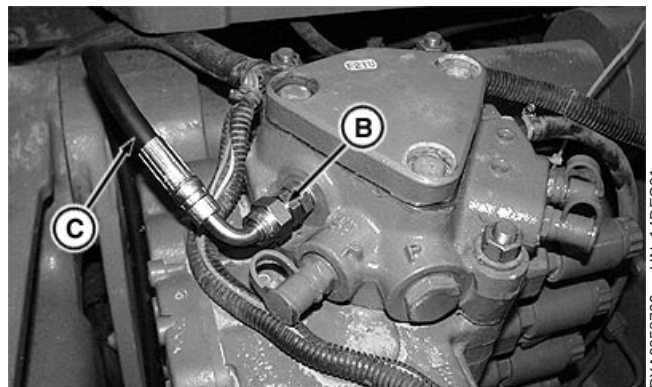


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RXA0074168 -UN-26MAR04

Deluxe V1 Top End Cover



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