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## Section 05 - SAFETY

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## Group 05 - Specifications

### Engine

#### Engine

##### Engine types

|                       |           |
|-----------------------|-----------|
| - Tractor 5070M ..... | 4045HL286 |
| - Tractor 5080M ..... | 4045HL286 |
| - Tractor 5090M ..... | 4045HL286 |
| - Tractor 5100M ..... | 4045HL286 |

##### Engine power according to 97/68/EC at rated engine speed

|                       |                |
|-----------------------|----------------|
| - Tractor 5070M ..... | 51 kW (70 hp)  |
| - Tractor 5080M ..... | 59 kW (80 hp)  |
| - Tractor 5090M ..... | 66 kW (90 hp)  |
| - Tractor 5100M ..... | 74 kW (100 hp) |

##### Maximum engine power according to 97/68/EC

|                       |                   |
|-----------------------|-------------------|
| - Tractor 5070M ..... | 52 kW (71 hp)     |
| - Tractor 5080M ..... | 60 kW (81.5 hp)   |
| - Tractor 5090M ..... | 67.3 kW (91.5 hp) |
| - Tractor 5100M ..... | 75.5 kW (102 hp)  |

##### Maximum torque

|                                   |                     |
|-----------------------------------|---------------------|
| - Tractor 5070M at 1600 rpm ..... | 291 N·m (215 lb-ft) |
| - Tractor 5080M at 1600 rpm ..... | 337 N·m (249 lb-ft) |
| - Tractor 5090M at 1600 rpm ..... | 373 N·m (275 lb-ft) |
| - Tractor 5100M at 1600 rpm ..... | 390 N·m (288 lb-ft) |

##### Number of cylinders .....

4

##### Bore .....

106.5 mm (4.19 in.)

##### Stroke .....

127.0 mm (5.00 in.)

##### Displacement .....

4530 cm<sup>3</sup> (276 in<sup>3</sup>)

##### Firing order .....

1-3-4-2

##### Intake valve clearance .....

0.36 mm (0.014 in.)

##### Exhaust valve clearance .....

0.46 mm (0.018 in.)

##### Slow idle .....

875 rpm

##### Fast idle .....

2350 rpm

##### Rated engine speed .....

2200 rpm

##### Working speed range .....

1500 to 2200 rpm

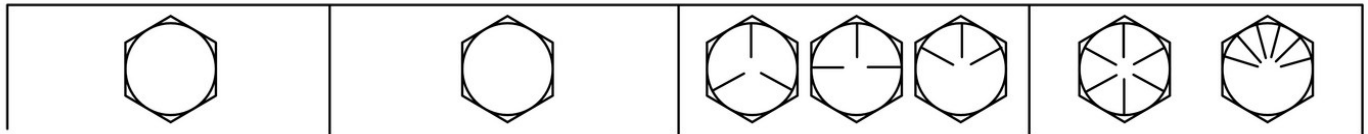
##### Engine speed for PTO operation

|                            |          |
|----------------------------|----------|
| - 540 rpm rear PTO .....   | 2100 rpm |
| - 540E rpm rear PTO .....  | 1645 rpm |
| - 1000 rpm rear PTO .....  | 2100 rpm |
| - 1000 rpm front PTO ..... | 2180 rpm |

The ground speed PTO is dependent on engine speed.

The PTO turns 21.8 times for each rotation of the rear axle.

# Unified Inch Bolt and Screw Torque Values



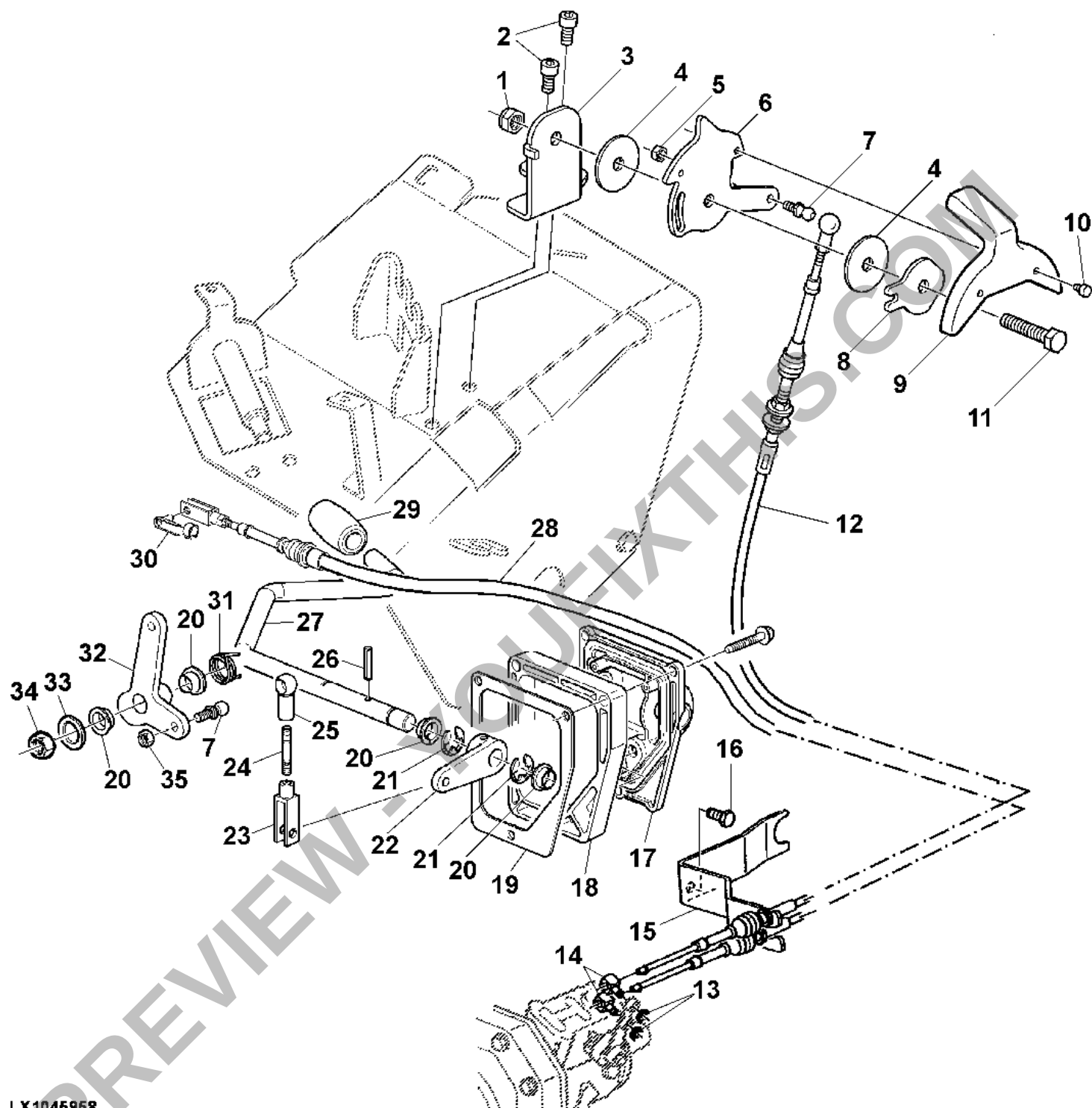
## Unified Inch Bolt and Screw

### Unified Inch Bolt and Screw Torque Values

| Bolt or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SAE Grade 1                                                                                                                                                                                   |         |                                                                                                                                    |         | SAE Grade 2<br>[ Grade 2 applies for hex cap screws (not hex bolts) up to 6. in (152 mm) long. Grade 1 applies for hex cap screws over 6 in. (152 mm) long, and for all other types of bolts and screws of any length. ] |         |                                                                                                                                    |         | SAE Grade 5, 5.1 or 5.2                                                                                                                                                                                                                                                                                                                                                                                |         |                                                                                                                                    |         | SAE Grade 8 or 8.2                                                                                                                                                                            |         |                                                                                                                                    |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------|---------|
| Screw                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Lubricated<br>[ "Lubricated" means coated with a lubricant such as engine oil, fasteners with phosphate and oil coatings, or 7/8 in. and larger fasteners with JDM F13C zinc flake coating. ] |         | Dry<br>[ "Dry" means plain or zinc plated without any lubrication, or 1/4 to 3/4 in. fasteners with JDM F13B zinc flake coating. ] |         | Lubricated<br>[ "Lubricated" means coated with a lubricant such as engine oil, fasteners with phosphate and oil coatings, or 7/8 in. and larger fasteners with JDM F13C zinc flake coating. ]                            |         | Dry<br>[ "Dry" means plain or zinc plated without any lubrication, or 1/4 to 3/4 in. fasteners with JDM F13B zinc flake coating. ] |         | Lubricated<br>[ "Lubricated" means coated with a lubricant such as engine oil, fasteners with phosphate and oil coatings, or 7/8 in. and larger fasteners with JDM F13C zinc flake coating. ]                                                                                                                                                                                                          |         | Dry<br>[ "Dry" means plain or zinc plated without any lubrication, or 1/4 to 3/4 in. fasteners with JDM F13B zinc flake coating. ] |         | Lubricated<br>[ "Lubricated" means coated with a lubricant such as engine oil, fasteners with phosphate and oil coatings, or 7/8 in. and larger fasteners with JDM F13C zinc flake coating. ] |         | Dry<br>[ "Dry" means plain or zinc plated without any lubrication, or 1/4 to 3/4 in. fasteners with JDM F13B zinc flake coating. ] |         |
| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | N`m                                                                                                                                                                                           | lb.-in. | N`m                                                                                                                                | lb.-in. | N`m                                                                                                                                                                                                                      | lb.-in. | N`m                                                                                                                                | lb.-in. | N`m                                                                                                                                                                                                                                                                                                                                                                                                    | lb.-in. | N`m                                                                                                                                | lb.-in. | N`m                                                                                                                                                                                           | lb.-in. | N`m                                                                                                                                | lb.-in. |
| 1/4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.7                                                                                                                                                                                           | 33      | 4.7                                                                                                                                | 42      | 6                                                                                                                                                                                                                        | 53      | 7.5                                                                                                                                | 66      | 9.5                                                                                                                                                                                                                                                                                                                                                                                                    | 84      | 12                                                                                                                                 | 106     | 13.5                                                                                                                                                                                          | 120     | 17                                                                                                                                 | 150     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                               |         |                                                                                                                                    |         |                                                                                                                                                                                                                          |         |                                                                                                                                    |         |                                                                                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                    |         | N`m                                                                                                                                                                                           | lb.-ft. | N`m                                                                                                                                | lb.-ft. |
| 5/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7.7                                                                                                                                                                                           | 68      | 9.8                                                                                                                                | 86      | 12                                                                                                                                                                                                                       | 106     | 15.5                                                                                                                               | 137     | 19.5                                                                                                                                                                                                                                                                                                                                                                                                   | 172     | 25                                                                                                                                 | 221     | 28                                                                                                                                                                                            | 20.5    | 35                                                                                                                                 | 26      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                               |         |                                                                                                                                    |         |                                                                                                                                                                                                                          |         |                                                                                                                                    |         | N`m                                                                                                                                                                                                                                                                                                                                                                                                    | lb.-ft. | N`m                                                                                                                                | lb.-ft. |                                                                                                                                                                                               |         |                                                                                                                                    |         |
| 3/8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 13.5                                                                                                                                                                                          | 120     | 17.5                                                                                                                               | 155     | 22                                                                                                                                                                                                                       | 194     | 27                                                                                                                                 | 240     | 35                                                                                                                                                                                                                                                                                                                                                                                                     | 26      | 44                                                                                                                                 | 32.5    | 49                                                                                                                                                                                            | 36      | 63                                                                                                                                 | 46      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                               |         | N`m                                                                                                                                | lb.-ft. | N`m                                                                                                                                                                                                                      | lb.-ft. | N`m                                                                                                                                | lb.-ft. |                                                                                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                    |         |                                                                                                                                                                                               |         |                                                                                                                                    |         |
| 7/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 22                                                                                                                                                                                            | 194     | 28                                                                                                                                 | 20.5    | 35                                                                                                                                                                                                                       | 26      | 44                                                                                                                                 | 32.5    | 56                                                                                                                                                                                                                                                                                                                                                                                                     | 41      | 70                                                                                                                                 | 52      | 80                                                                                                                                                                                            | 59      | 100                                                                                                                                | 74      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | N`m                                                                                                                                                                                           | lb.-ft. |                                                                                                                                    |         |                                                                                                                                                                                                                          |         |                                                                                                                                    |         |                                                                                                                                                                                                                                                                                                                                                                                                        |         |                                                                                                                                    |         |                                                                                                                                                                                               |         |                                                                                                                                    |         |
| 1/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 34                                                                                                                                                                                            | 25      | 42                                                                                                                                 | 31      | 53                                                                                                                                                                                                                       | 39      | 67                                                                                                                                 | 49      | 85                                                                                                                                                                                                                                                                                                                                                                                                     | 63      | 110                                                                                                                                | 80      | 120                                                                                                                                                                                           | 88      | 155                                                                                                                                | 115     |
| 9/16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 48                                                                                                                                                                                            | 35.5    | 60                                                                                                                                 | 45      | 76                                                                                                                                                                                                                       | 56      | 95                                                                                                                                 | 70      | 125                                                                                                                                                                                                                                                                                                                                                                                                    | 92      | 155                                                                                                                                | 115     | 175                                                                                                                                                                                           | 130     | 220                                                                                                                                | 165     |
| 5/8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 67                                                                                                                                                                                            | 49      | 85                                                                                                                                 | 63      | 105                                                                                                                                                                                                                      | 77      | 135                                                                                                                                | 100     | 170                                                                                                                                                                                                                                                                                                                                                                                                    | 125     | 215                                                                                                                                | 160     | 240                                                                                                                                                                                           | 175     | 305                                                                                                                                | 225     |
| 3/4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120                                                                                                                                                                                           | 88      | 150                                                                                                                                | 110     | 190                                                                                                                                                                                                                      | 140     | 240                                                                                                                                | 175     | 300                                                                                                                                                                                                                                                                                                                                                                                                    | 220     | 380                                                                                                                                | 280     | 425                                                                                                                                                                                           | 315     | 540                                                                                                                                | 400     |
| 7/8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 190                                                                                                                                                                                           | 140     | 240                                                                                                                                | 175     | 190                                                                                                                                                                                                                      | 140     | 240                                                                                                                                | 175     | 490                                                                                                                                                                                                                                                                                                                                                                                                    | 360     | 615                                                                                                                                | 455     | 690                                                                                                                                                                                           | 510     | 870                                                                                                                                | 640     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 285                                                                                                                                                                                           | 210     | 360                                                                                                                                | 265     | 285                                                                                                                                                                                                                      | 210     | 360                                                                                                                                | 265     | 730                                                                                                                                                                                                                                                                                                                                                                                                    | 540     | 920                                                                                                                                | 680     | 1030                                                                                                                                                                                          | 760     | 1300                                                                                                                               | 960     |
| 1-1/8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 400                                                                                                                                                                                           | 300     | 510                                                                                                                                | 375     | 400                                                                                                                                                                                                                      | 300     | 510                                                                                                                                | 375     | 910                                                                                                                                                                                                                                                                                                                                                                                                    | 670     | 1150                                                                                                                               | 850     | 1450                                                                                                                                                                                          | 1075    | 1850                                                                                                                               | 1350    |
| 1-1/4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 570                                                                                                                                                                                           | 420     | 725                                                                                                                                | 535     | 570                                                                                                                                                                                                                      | 420     | 725                                                                                                                                | 535     | 1280                                                                                                                                                                                                                                                                                                                                                                                                   | 945     | 1630                                                                                                                               | 1200    | 2050                                                                                                                                                                                          | 1500    | 2600                                                                                                                               | 1920    |
| 1-3/8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 750                                                                                                                                                                                           | 550     | 950                                                                                                                                | 700     | 750                                                                                                                                                                                                                      | 550     | 950                                                                                                                                | 700     | 1700                                                                                                                                                                                                                                                                                                                                                                                                   | 1250    | 2140                                                                                                                               | 1580    | 2700                                                                                                                                                                                          | 2000    | 3400                                                                                                                               | 2500    |
| 1-1/2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 990                                                                                                                                                                                           | 730     | 1250                                                                                                                               | 930     | 990                                                                                                                                                                                                                      | 730     | 1250                                                                                                                               | 930     | 2250                                                                                                                                                                                                                                                                                                                                                                                                   | 1650    | 2850                                                                                                                               | 2100    | 3600                                                                                                                                                                                          | 2650    | 4550                                                                                                                               | 3350    |
| Torque values listed are for general use only, based on the strength of the bolt or screw. DO NOT use these values if a different torque value or tightening procedure is given for a specific application. For plastic insert or crimped steel type lock nuts, for stainless steel fasteners, or for nuts on U-bolts, see the tightening instructions for the specific application. Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade. |                                                                                                                                                                                               |         |                                                                                                                                    |         |                                                                                                                                                                                                                          |         |                                                                                                                                    |         | Replace fasteners with the same or higher grade. If higher grade fasteners are used, tighten these to the strength of the original. Make sure fastener threads are clean and that you properly start thread engagement. When possible, lubricate plain or zinc plated fasteners other than lock nuts, wheel bolts or wheel nuts, unless different instructions are given for the specific application. |         |                                                                                                                                    |         |                                                                                                                                                                                               |         |                                                                                                                                    |         |



## Recondition Hand Throttle Lever and Accelerator Pedal

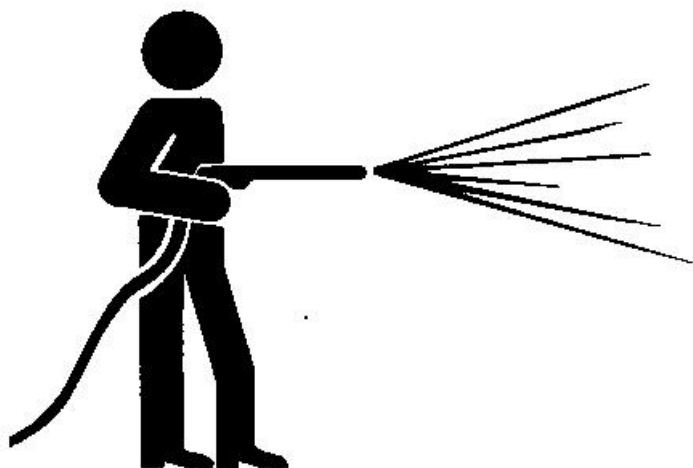


LX1045958

**Exploded view of hand throttle lever and accelerator pedal**

### LEGEND:

- |    |                    |
|----|--------------------|
| 1  | Hex. nut           |
| 2  | Screw (2 used)     |
| 3  | Bracket            |
| 4  | Washer (2 used)    |
| 5  | Hex. nut           |
| 6  | Lever              |
| 7  | Ball-joint         |
| 8  | Plate              |
| 9  | Hand throttle grip |
| 10 | Screw (2 used)     |

**IMPORTANT:****High-Pressure Washers**

**Directing pressurized water at electronic/electrical components or connectors, bearings and hydraulic seals, fuel injection pumps or other sensitive parts and components may cause product malfunctions. Reduce pressure, and spray at a 45 to 90° angle.**

**Preliminary Engine Test**

Before tuning up an engine, determine whether a tune-up will restore operating efficiency. If there is doubt, the following preliminary test will help to determine whether the engine can be tuned. Perform the following tests:

**[1]** - After engine has been stopped for several hours, carefully loosen crankcase drain plug and watch for any water to seep out. A few drops could be due to condensation, but any more than this would indicate problems which require engine repairs rather than just a tune-up. Refer to the Technical Manual "Engines" in the event of malfunctions.

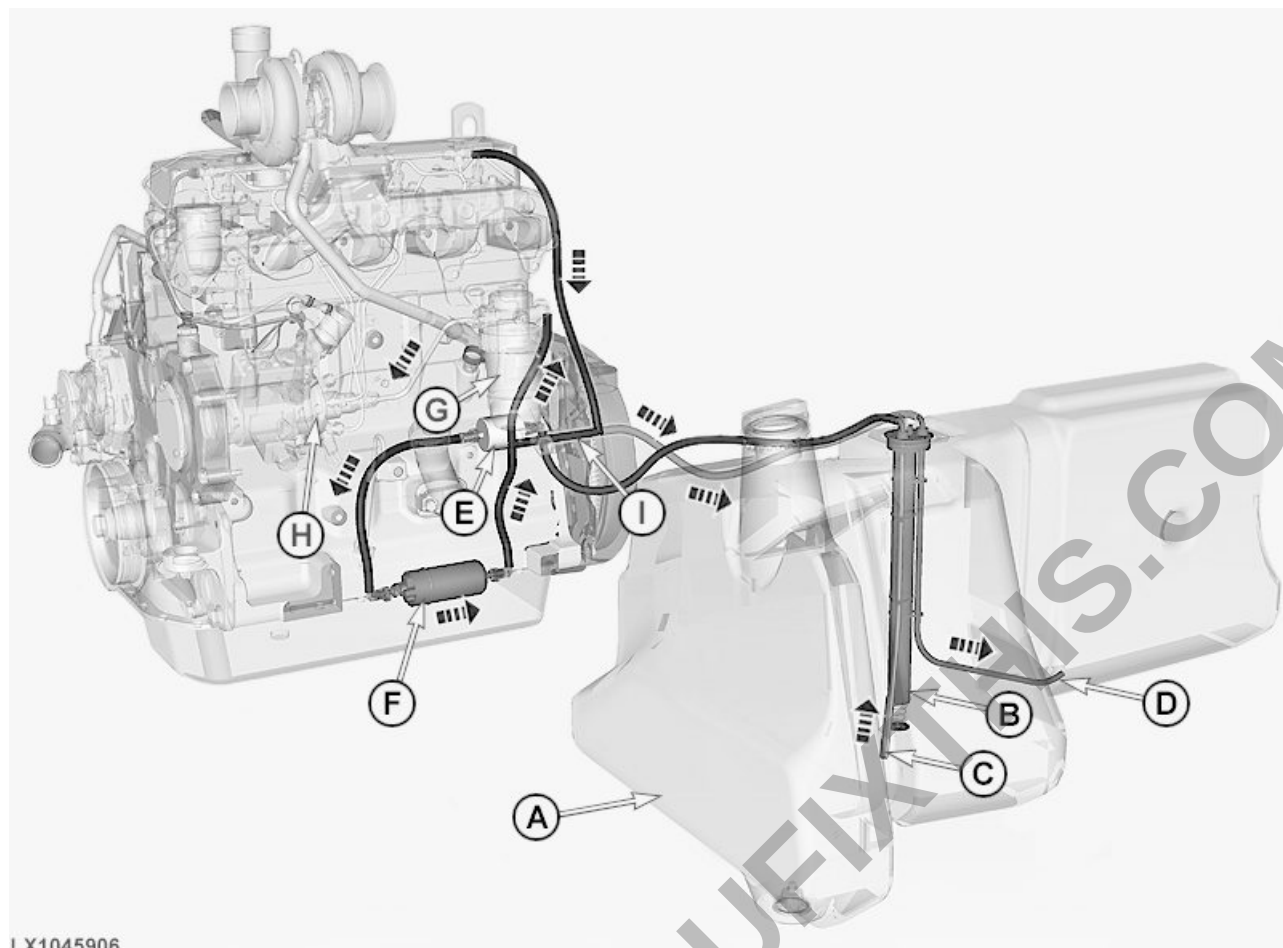
**[2]** - With engine stopped, inspect engine coolant for an oil film. With engine running, inspect coolant for air bubbles. Either condition would indicate problems which require engine repairs rather than just a tune-up. Refer to the Technical Manual "Engines" in the event of malfunctions.

**[3]** - Perform a dynamometer test as instructed below. See Technical Manual "Operation and Tests".

Repeat dynamometer test after tune-up so that horsepower before and after tune-up can be compared.

**[4]** - Measure compression as described in the Technical Manual "Engines".

## Preliminary Fuel System Test



### Fuel system components

#### LEGEND:

|   |                          |
|---|--------------------------|
| A | Fuel tank                |
| B | Fuel level sending unit  |
| C | Suction line             |
| D | Return line              |
| E | Primary fuel filter      |
| F | Fuel transfer pump (M31) |
| G | Fuel filter              |
| H | High-pressure pump       |
| I | Orifice                  |
| J |                          |

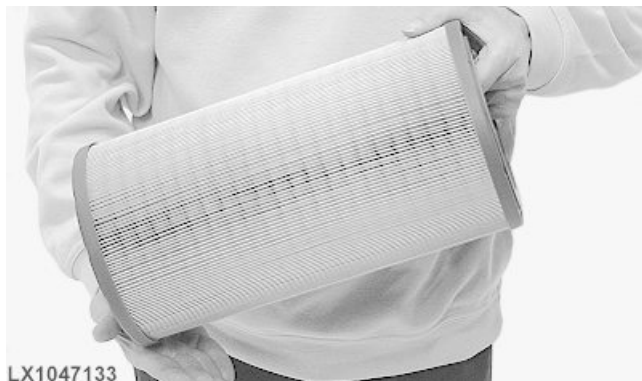
Inspect the entire fuel system for leaks, and put right anything that is wrong. See also [Fuel, Air Intake and Cooling Systems - Tests and Adjustments, Summary of References](#) in Section 230.

## Clean the Dust Unloading Valve



PREVIEW - YOUFIXTHIS.COM

## Clean the Primary Filter Element



### Clean the Primary Filter Element

When the element must be serviced in the field, tap it on the palm of your hand as a temporary measure.

#### **IMPORTANT:**

*The guide ring must not be damaged or deformed.*

When you return to your service area, clean the filter element thoroughly, or replace it with a new one.

## Clean a Dusty Element

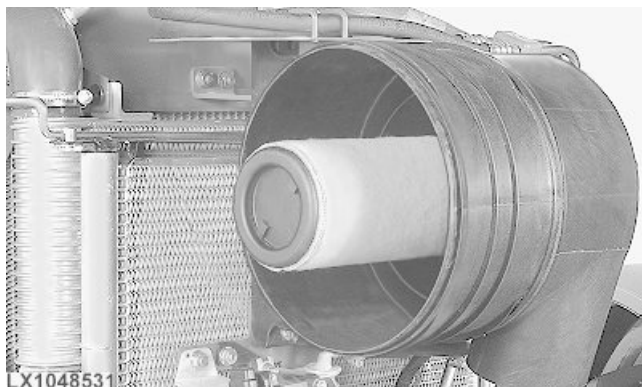


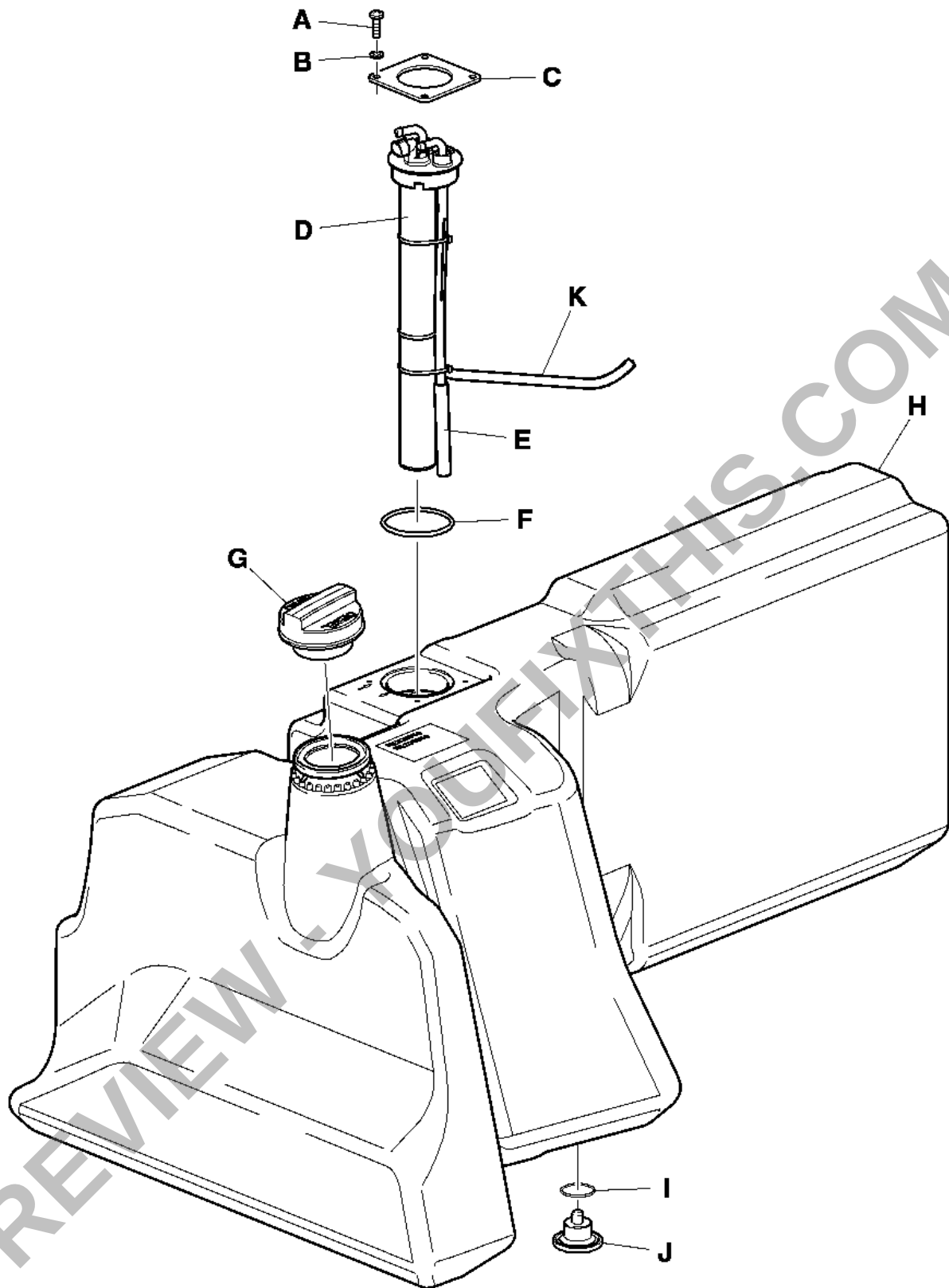
### Clean a Dusty Element

If tapping element does not remove dust, blow out the dust with compressed air by inserting nozzle inside the element and blowing from the inside of the filter to the outside. Pressure must not exceed 600 kPa (6 bar; 90 psi).

Replace element if air cleaner indicator light continues glowing after the element has been cleaned.

## Secondary (Safety) Element





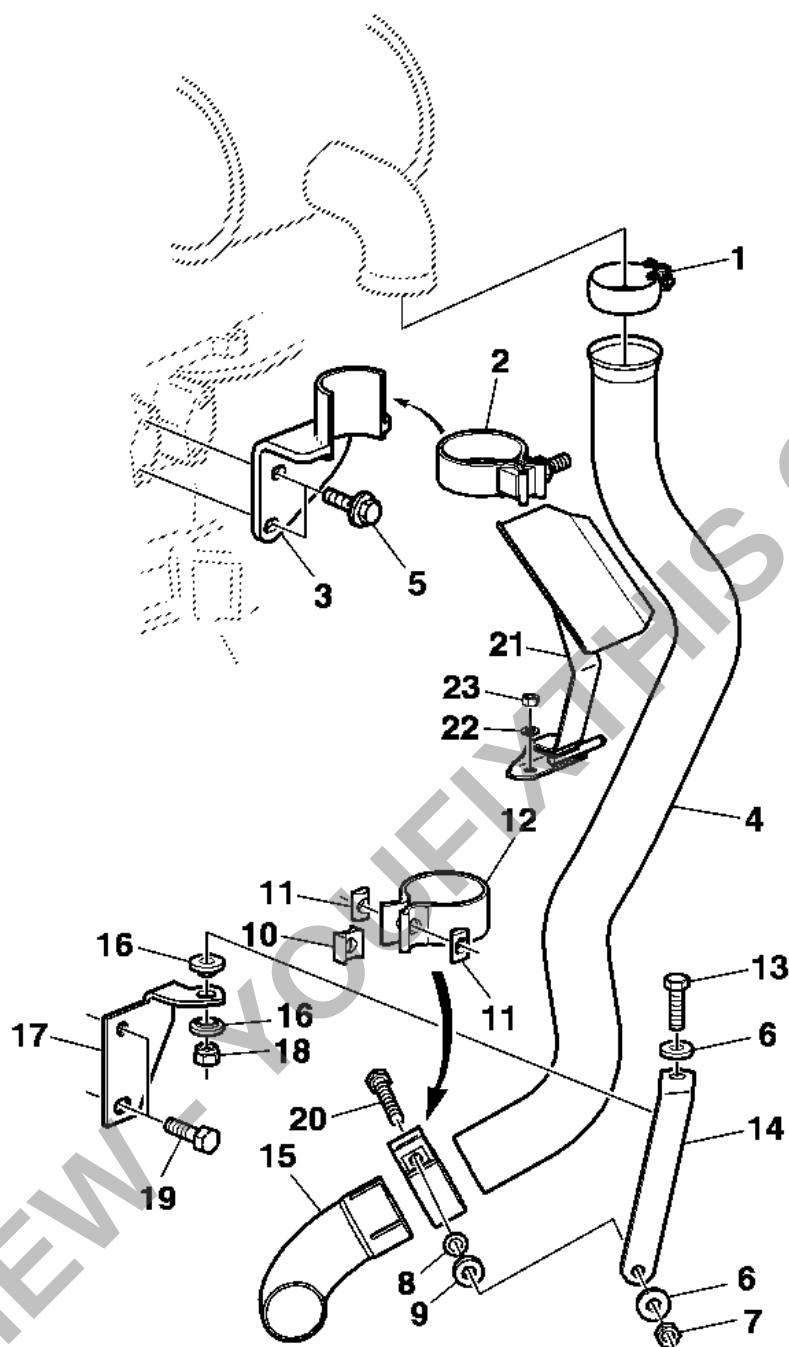
**LX1045938**

### ***Tank and fuel gauge sending unit***

**LEGEND:**

- |   |                         |
|---|-------------------------|
| A | Screw (4 used)          |
| B | Washer (4 used)         |
| C | Mounting plate          |
| D | Fuel gauge sending unit |
| E | Suction pipe            |
| F | O-ring                  |
| G | Tank cap                |
| H | Tank                    |
| I | O-ring                  |

## Exhaust System - Exhaust Pipe to Bottom Right



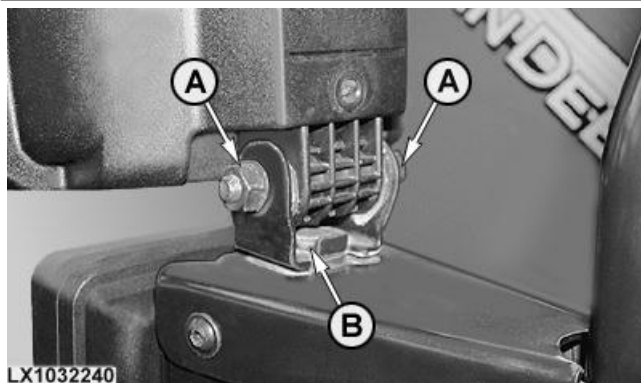
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### Exhaust pipe to bottom right

#### LEGEND:

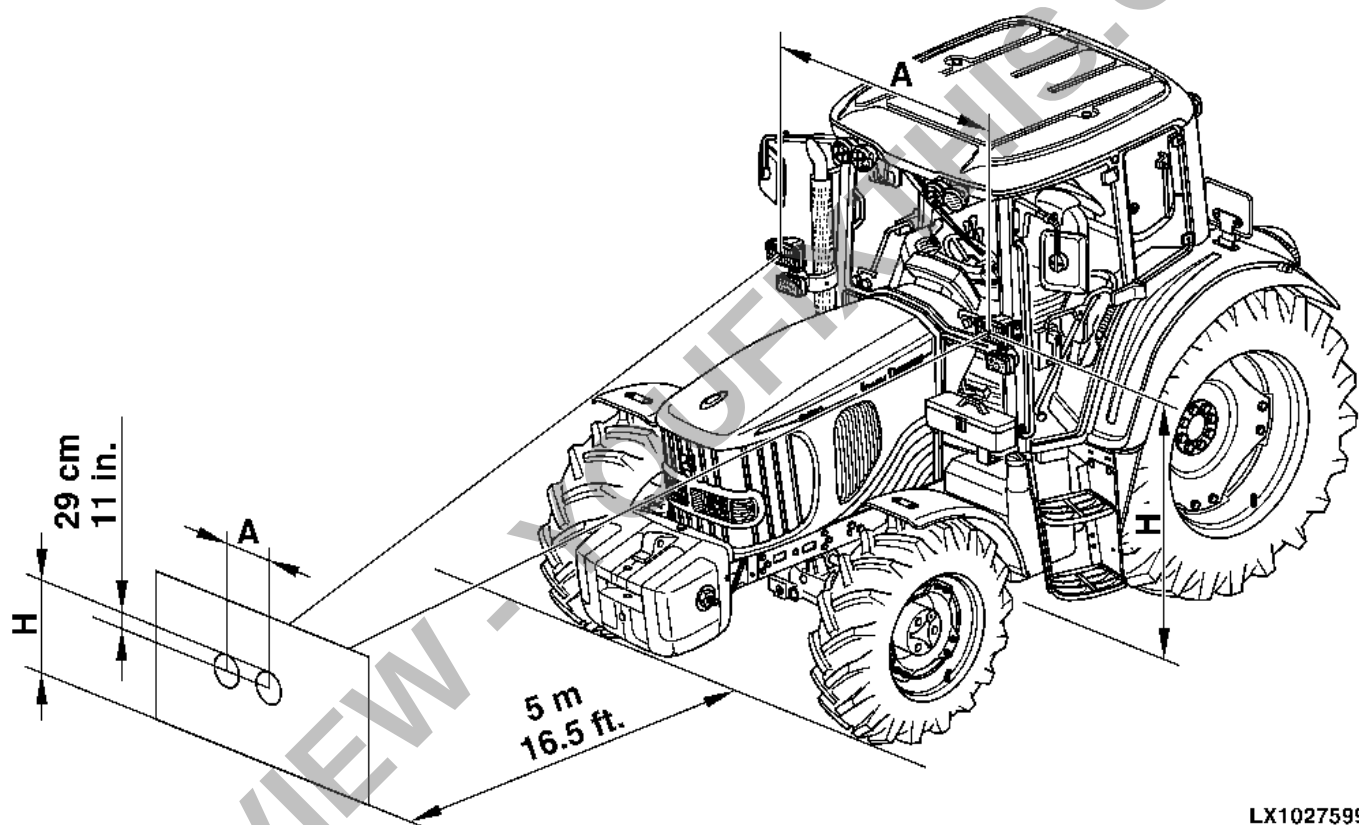
- |    |                        |
|----|------------------------|
| 1  | Pipe clamp (spherical) |
| 2  | Clamp                  |
| 3  | Console                |
| 4  | Exhaust pipe           |
| 5  | Cap screw              |
| 6  | Washer                 |
| 7  | Hex. nut               |
| 8  | Washer                 |
| 9  | Washer                 |
| 10 | Spacer                 |
| 11 | Spacer                 |
| 12 | Clamp                  |
| 13 | Cap screw              |
| 14 | Bracket                |
| 15 | Exhaust pipe           |
| 16 | Ring-shaped buffer     |





### Aligning lights on cab frame

Adjust the setting of the lights by slackening screw (A) and nut (B).



### Adjusting the lights on the cab frame

Park tractor on a level surface 5 m (16.5 ft) from a vertical wall.

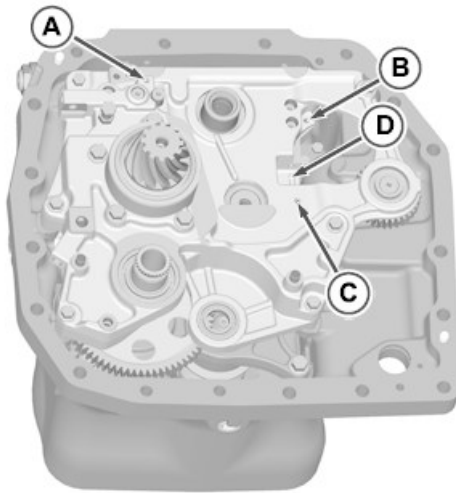
Adjust each light so that the bright/dark border forms a horizontal line 29 cm (11 in.) lower than the height (H) of the lights.

Switch to full beam. Align the lights sideways so that the distance between the center of the light beams on the wall is the same as the distance (A) between the lights.

## Safety Instructions for Replacing a Halogen Bulb

When replacing a halogen bulb, always comply with the following safety instructions:



**LEGEND:**

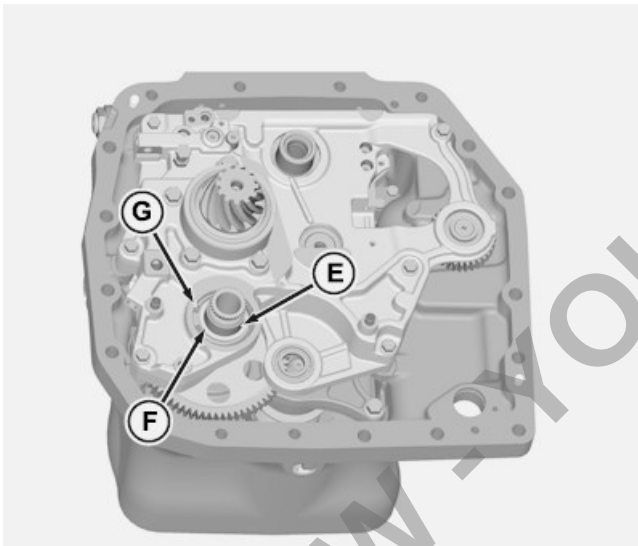
|   |            |
|---|------------|
| A | Location   |
| B | Location   |
| C | Location   |
| D | Detent Pin |

c.

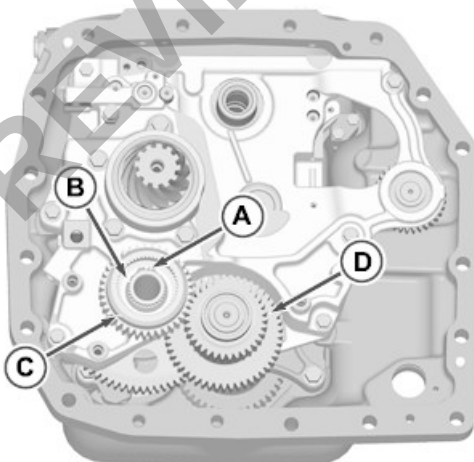
**With Creeper**

At locations (A) and (B), install two detent balls in each hole and secure with spring pins.

- d. Install detent ball, spring and detent pin (D) at location (C).
- e. Install snap ring (G).

**LEGEND:**

|   |                      |
|---|----------------------|
| A | Snap Ring            |
| B | Thrust Washer        |
| C | Creeper Output Gear  |
| D | Creeper Countershaft |
| E | Needle Bearing       |
| F | Thrust Washer        |
| G | Snap Ring            |

**With Creeper****With Creeper**

- f. Install thrust washer (F) and needle bearing (E).
- g. Install creeper countershaft assembly (D).
- h. Install creeper output gear (C).

[3] - Inspect all parts for wear and damage. Replace if necessary.

[4] -

**→NOTE:**

**Apply clean transmission/hydraulic oil to all parts during assembly.**

Repair clutch pack as necessary. See Recondition the Clutch Pack in Section 50, Group 20.

[5] -

**IMPORTANT:**

**Be sure not to damage the seal rings during installation.**

Install parts (A) to (K) on the shaft.

[6] - [Install the Reverse Clutch](#), see Section 50, Group 20.

## Install the Reverse Clutch

See the following references:

[SyncReverser™ and PowrReverser™ Transmissions - Install Clutches and Intermediate Shaft](#) in Section 50, Group 15.

[PowrReverser™ Plus Transmission - Install Clutches](#) in Section 50, Group 20.

## Remove the Forward Low Clutch

See the following references:

[SyncReverser™ and PowrReverser™ Transmissions - Remove Clutches and Intermediate Shaft](#) in Section 50, Group 15.

[PowrReverser™ Plus Transmission - Remove Clutches](#) in Section 50, Group 20.

Connect the negative terminal (—) to the battery. The version shown here has a negative terminal at the location marked (A).

**CAUTION:**

***Always be careful to observe the correct battery terminals.***

***Comply with safety instructions on how to handle batteries (see Section 05).***

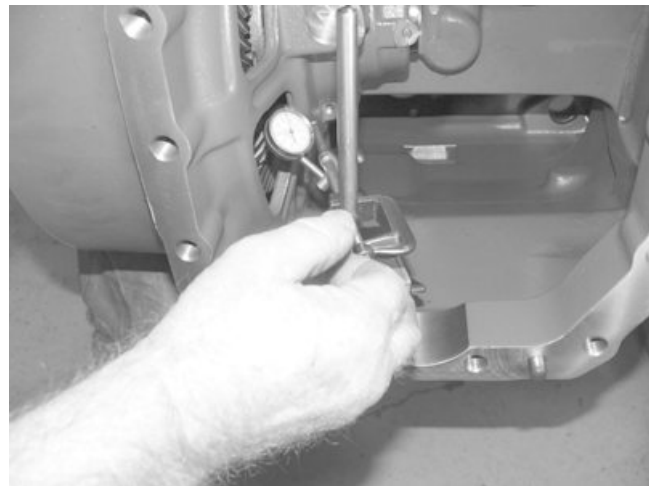
**[17] - When assembly is completed, perform the following:**

- Check transmission oil level. Check the park brake. See [Brakes - Check Park Brake](#) in Section 260.
- Bleed the brake system and carry out an operational check. See [Brakes - Bleed Brakes](#) in Section 260. See [Brakes - Operational Check](#) in Section 260.
- With air brakes: [Brakes - Check Air-Brake System](#), see Section 260.
- With hydraulic trailer brake: [Brakes - Check Hydraulic Trailer Brake Valve](#), see Section 260.

Check all functions and rectify any faults (refer to corresponding Technical Manual).

Differential - Adjust Backlash

[1] -



Adjust Differential Backlash

Slowly rotate the differential and lightly tap the carrier with a soft hammer to make sure that the bearing on the opposite side of the ring gear is firmly seated.

[2] - Install a dial indicator on the housing as shown and place the feeler on the ring gear teeth.

[3] -

→NOTE:

The ring gear carrier is not preloaded and consequently has normal lateral play.

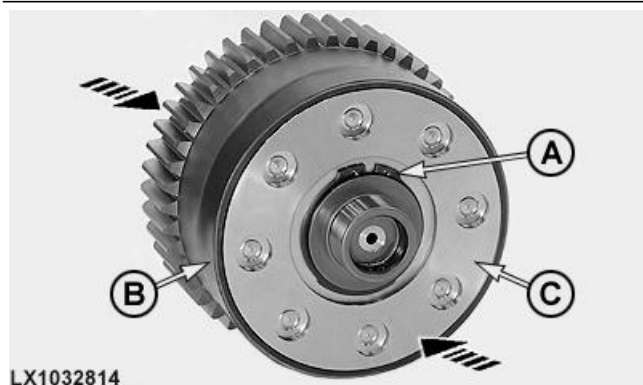
Hold the input shaft and rotate carrier and ring gear to determine the differential backlash. Backlash must be within specified tolerance.

| Item                  | Measurement | Specification                  |
|-----------------------|-------------|--------------------------------|
| Differential backlash | Distance    | 0.15—0.20 mm (0.006—0.008 in.) |

[4] - Measure backlash at three locations which are 120° (± 20°) apart.

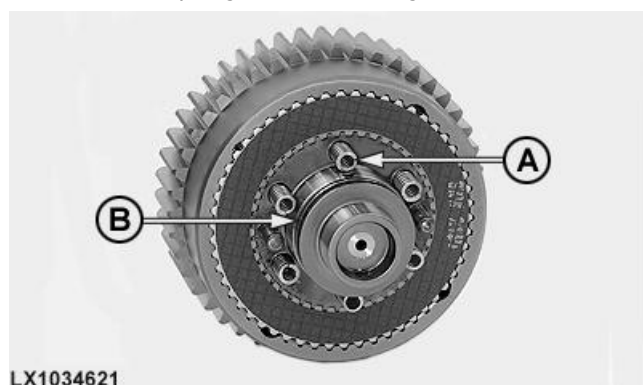
| Item                          | Measurement | Specification                  |
|-------------------------------|-------------|--------------------------------|
| Maximum backlash              | Distance    | 0.23—0.26 mm (0.009—0.01 in.)  |
| Minimum backlash              | Distance    | 0.18—0.33 mm (0.007—0.013 in.) |
| Maximum permissible deviation | Distance    | 0.1 mm (0.004 in)              |

[5] -



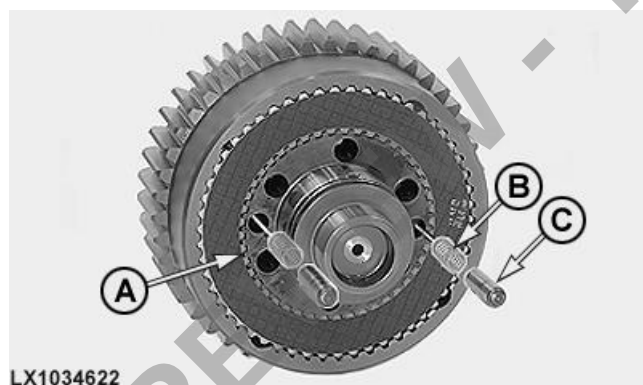
### Removing the snap ring and pressure ring

[4] - Remove springs (A) and O-ring (B).



### Springs and O-ring

[5] - Remove pins (C) and springs (B).



### Removing the pins, springs and disk pack

[6] - Remove disk pack (A).

[7] - Take pressure plate (A) out of pressure ring (B).

[Brakes - Check the Park Brake](#) in Section 260, Group 15.

[Brakes - Adjust the Park Brake](#) in Section 260, Group 15.

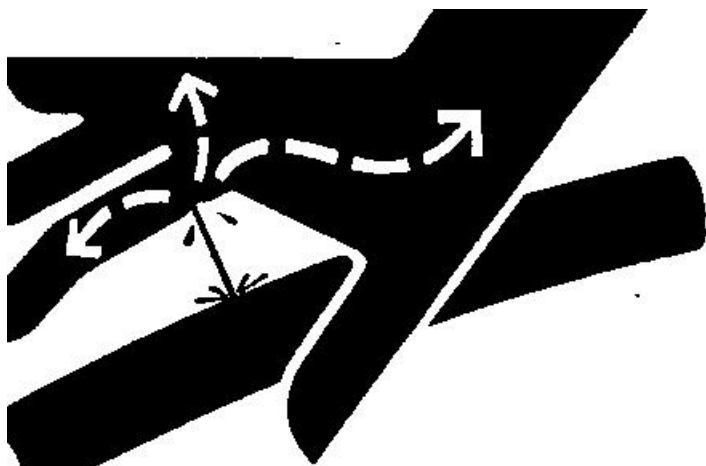
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## Remove and Install Hitch Valve - Electro-Hydraulic Hitch

[1] -



**CAUTION:**



### Escaping Fluid

*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 also available from Deere & Company Medical Department in Moline, Illinois, U.S.A.*

Place hitch into fully lowered position.

### IMPORTANT:

*When disconnecting/connecting hydraulic lines, always support line adapter and fitting with a back-up wrench to keep fittings stationary and prevent damage to lines, valve and pump housing.*

### →NOTE:

*Relieve hydraulic pressure by moving all hydraulic controls through all positions and ending in neutral position.*

*Cap or plug all openings. Put marks on hydraulic lines before disconnecting to aid during installation*

*Oil may escape when disconnecting hydraulic lines. Catch the escaping oil and dispose of it properly.*

[2] -

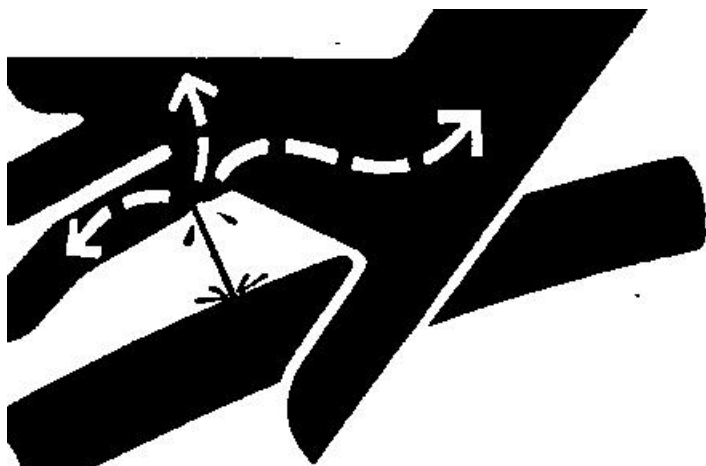


## Remove and Install Valve Block with Two or Three SCVs

[1] -



**CAUTION:**



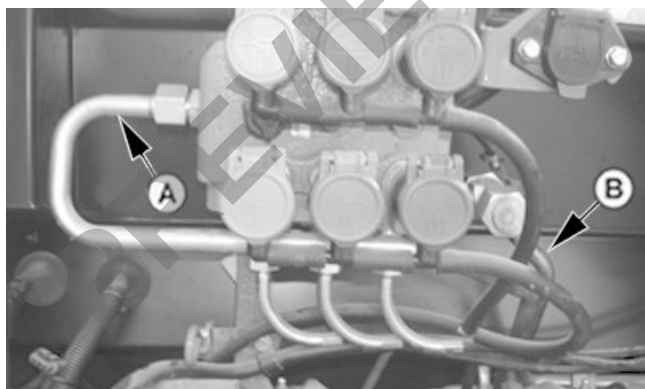
### Escaping Fluid

*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 also available from Deere & Company Medical Department in Moline, Illinois, U.S.A.*

### →NOTE:

The illustration shows a valve block with three SCVs. For valve blocks with two SCVs use the same procedure.



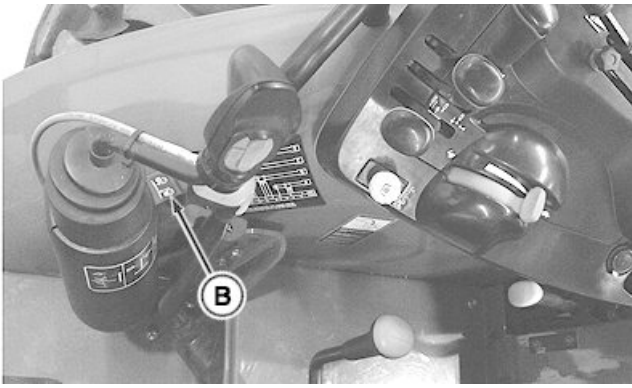
### LEGEND:

- A Hydraulic line (pressure)
- B Hydraulic line (return)

### Hydraulic Lines

Move SCV controls through all positions.

[2] -

**Right Console - Tractors with Open Operator's Station**

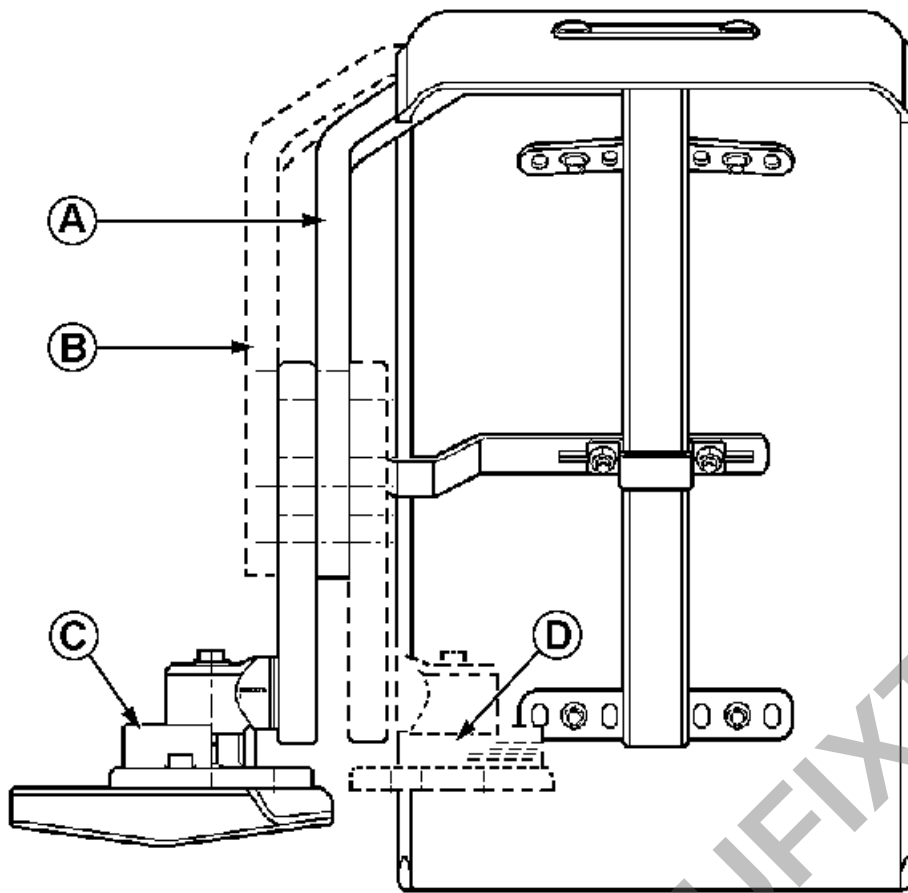
Remove yokes (A) from valve spool of valve block with ICVs.

2. Make sure that valve spool is in neutral position.
3. Engage single lever control lock (B).
4. Adjust lock nuts until hole in cable yoke is aligned with hole in spool.
5. Tighten lock nuts (C).
6. Connect yokes (A).

**→NOTE: When cables are properly adjusted, yoke pin will move freely within yoke and spool holes.**

7. Disengage single lever control lock (B).

## Pivoting (Front) Fender



LX1033904

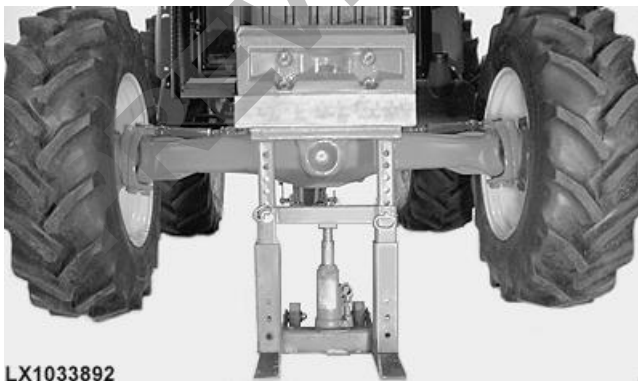
### Drawing

#### LEGEND:

- A Support on l.h. side of adjusting arm
- B Support on r.h. side of adjusting arm
- C Pivot plate turned inward
- D Pivot plate turned outward

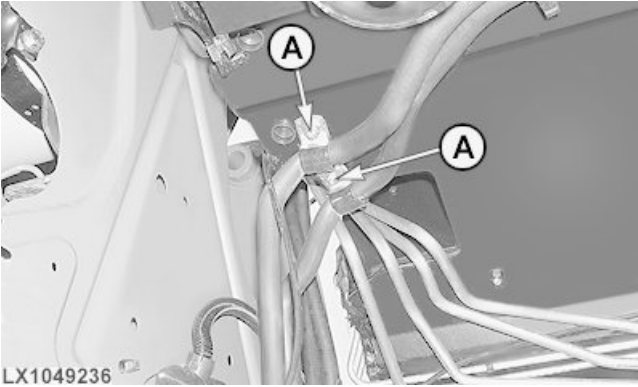
The fenders may be adjusted individually. Several adjusting positions are possible. Tilt, width and height of the fenders can be adjusted depending on tire size, tread width and steering angle. To do so, proceed as follows:

### [1] -



LX1033892

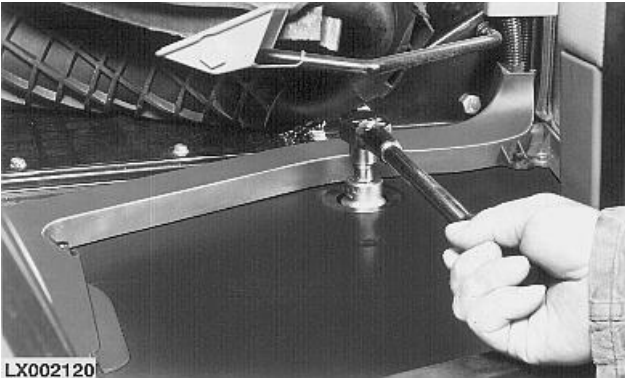
**Raise front of tractor.**



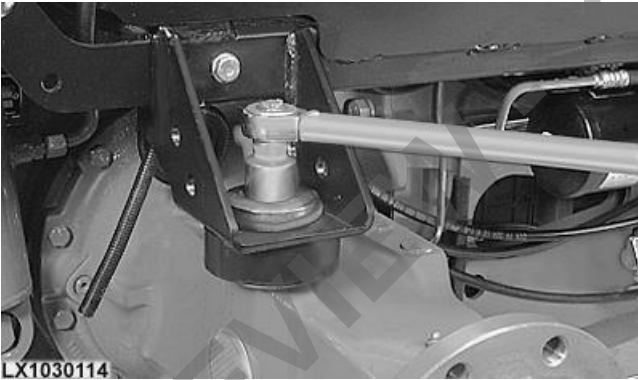
**While tilting down**

As soon as the heater hoses can be reached, secure them with clamps (A).

[4] -



**Front cab mounting**



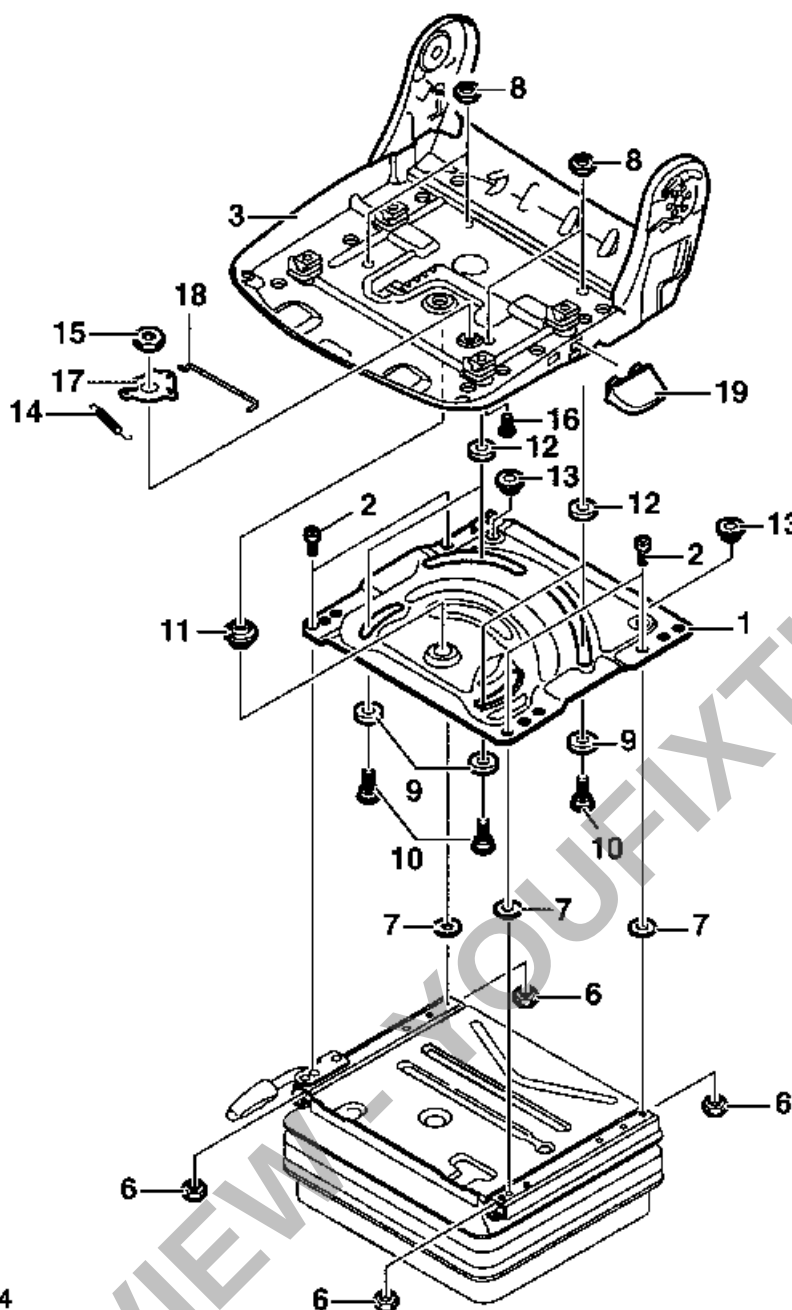
**Rear cab mounting**

Tighten the front and rear cab mounting screws to the prescribed torque value.

| Item                    | Measurement | Specification        |
|-------------------------|-------------|----------------------|
| Cab mounting, cap screw | Torque      | 220 N·m<br>160 lb-ft |

[5] -

## Remove and install the integral turntable and baseplate



LX1021404

### Integral turntable and baseplate

Remove cushions from seat and backrest.

Remove backrest (only necessary if the baseplate is to be replaced).

Turn integral turntable (1) together with baseplate (3) to one side, and take out screws (2).

Remove baseplate (3) together with integral turntable (1). Remove hex. nuts (6) and washers (7).

Take off hex. nuts (8). Remove washers (9) and hex. socket screws (10).

#### →NOTE:

**Replace the hex. socket screws with new ones; torque is 25 N·m (18 lb-ft). It must be possible to move the turntable at a torque of 30 N·m (22 lb-ft) or less.**

## Remove and Install Cab Doors

[1] -

→NOTE:

The illustration shows the l.h. door. Procedure is identical for the r.h. door.

**IMPORTANT:**

*Do not remove spring clip from cylinder completely. This may lead to damage.*



**LEGEND:**

- A Spring pin
- B Dome light
- C Trim panel on center cab post

**Gas-filled spring on door**



**Dome light**

Use a small screwdriver to release and raise spring pin (A) slightly to remove the gas-filled strut from the ball stud.

[2] - Remove dome light (B) and take the trim panel off the center cab post (C).

[3] -

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