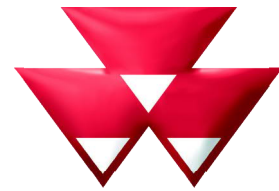


Workshop Service Manual



MASSEY FERGUSON

1700 Series Compact Tractor

1726E

1734E

1739E

4.1 Engine cover

4.1.1 Open the engine cover

Procedure

1. Move the latch handle (1) away from the machine.
2. Lift the front of the engine cover (2).

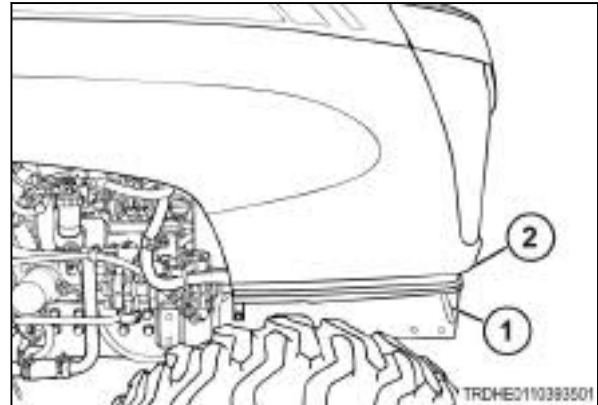


Fig. 1

4.1.2 Close the engine cover

Procedure

1. Pull down on the front of the engine cover (1).
2. Make sure the latch is in the locked position.

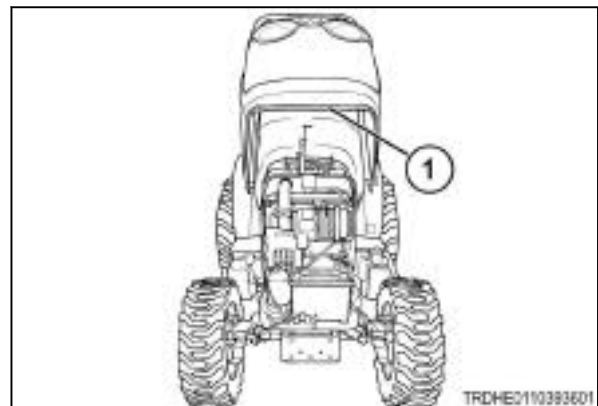


Fig. 2

4.1.3 Remove the engine cover

Procedure

1. Raise the engine cover (1).

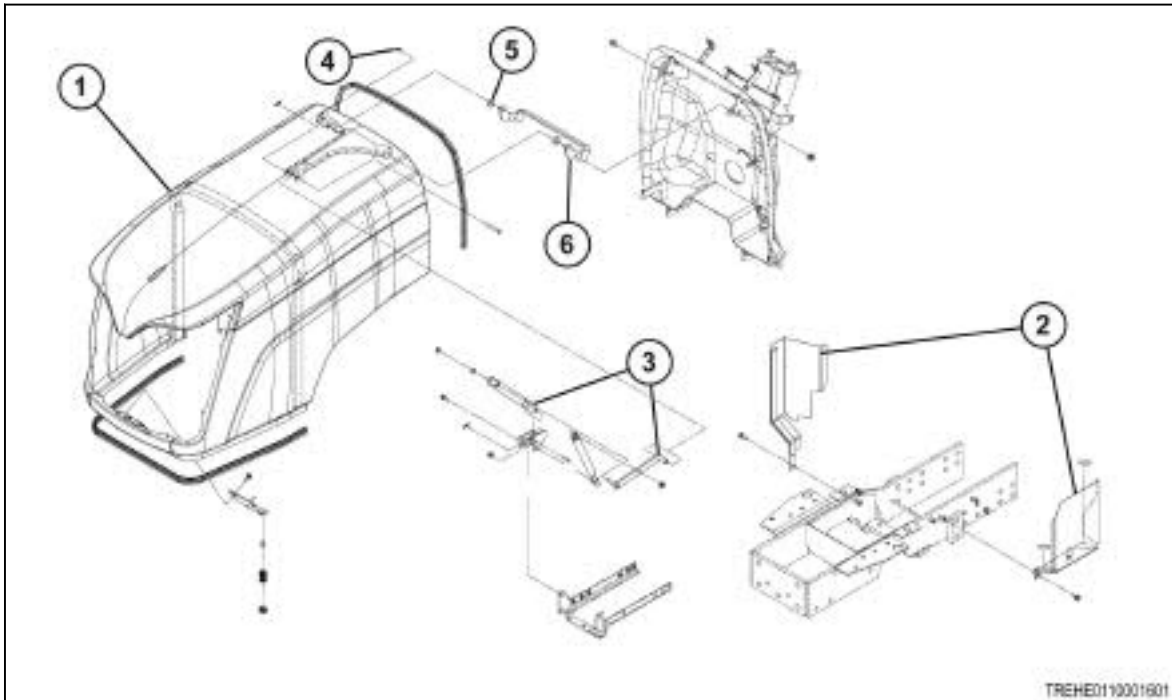


Fig. 3

2. Remove the engine side panels (2).
3. Disconnect the headlight harness.
4. Disconnect the engine cover support linkage (3).
5. Remove the hairpins (4) and the washers (5) from the hinge (6).
6. Slide the engine cover to the right and off the hinge.

4.1.4 Install the engine cover

Procedure

1. Slide the engine cover (1) onto the hinge (6).

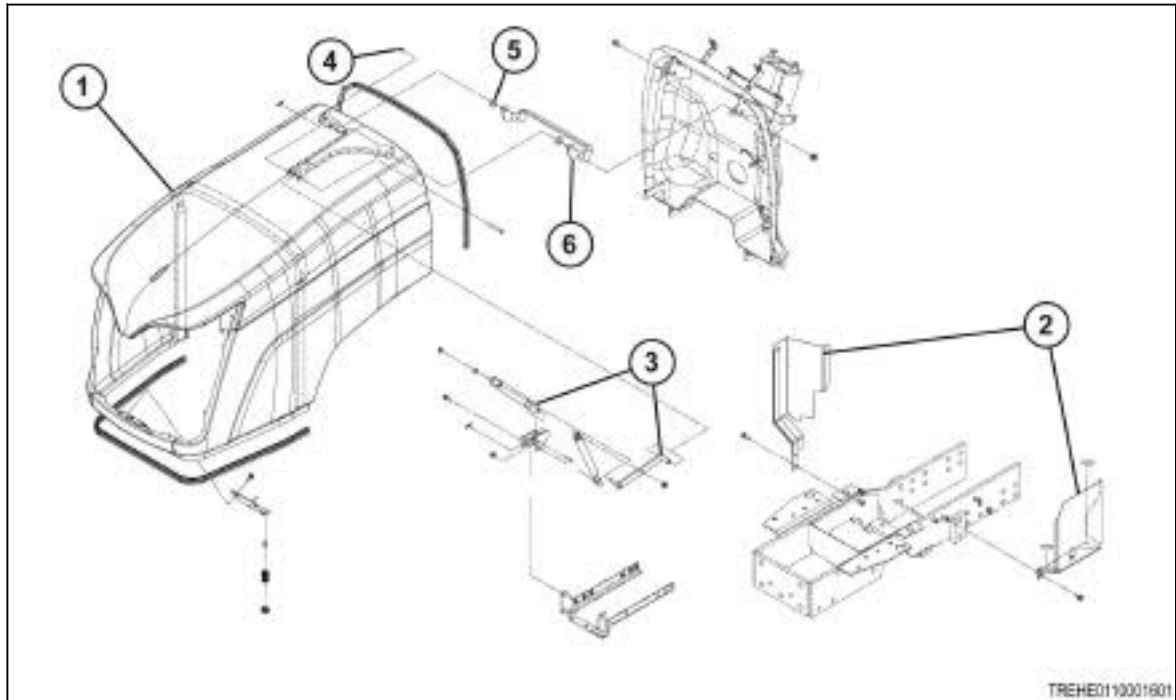


Fig. 4

2. Connect the engine cover support linkage (3).
3. Install the washers (5) and the hairpins (4) onto the hinge.
4. Connect the headlight harness.
5. Install the engine side panels (2).
6. Lower the engine cover.

4.2 Platform

4.2.1 Front floor system

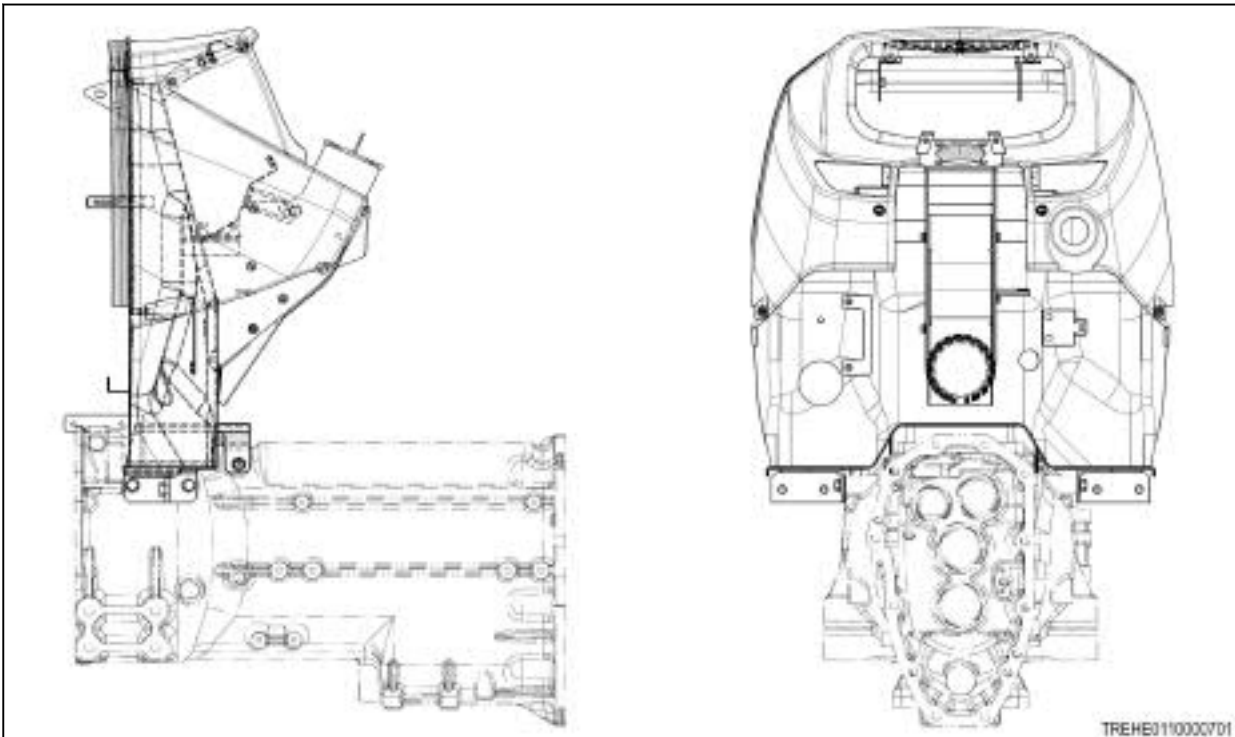


Fig. 5

4.2.2 Rear floor system

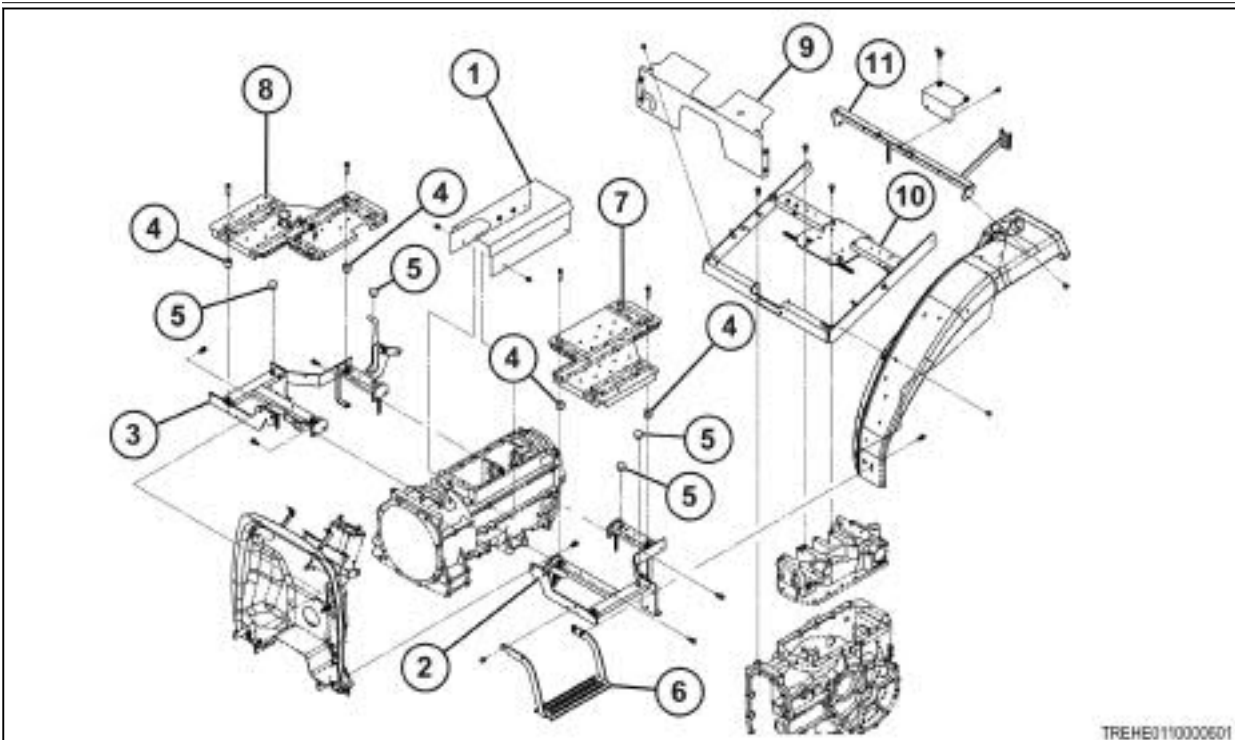


Fig. 6

(1) Center cover

(2) Left-hand step bracket

- | | |
|-----------------------------|------------------------------|
| (3) Right-hand step bracket | (8) Right-hand step |
| (4) Grommet | (9) Rear cover |
| (5) Rubber bumper | (10) Fender bracket assembly |
| (6) Step | (11) Fender bracket |
| (7) Left-hand step | |

4.3 Controls

4.3.1 Assemble the throttle lever (1734E and 1739E)

Procedure

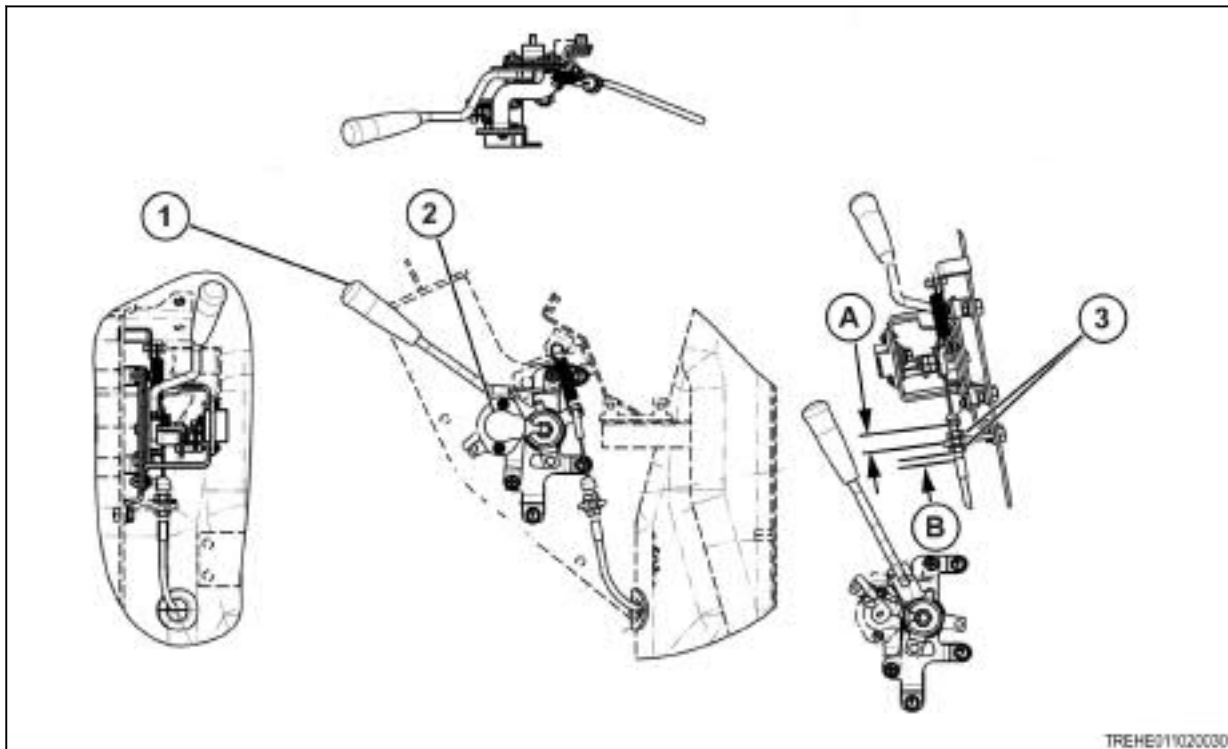


Fig. 7

1. Tighten the nut until the handle top operating load (1) is 29.4 N to 39.2 N (6.6 lbf to 8.8 lbf) . Lock the adjusting nut with the jam nut.
2. Check the output of the 5V sensor (2).
 - Idle range: -0.15 V to 1.75 V
 - Full throttle range: 4.3 V to 4.7 V
3. Set the distance (B) to 5.5 mm (0.22 in).
4. Set the distance (A) to 19.5 mm (0.77 in).
5. Tighten the nuts (3) to 11.8 Nm to 17.2 Nm (8.7 lbf ft to 12.7 lbf ft).
6. To adjust the cable, first install the cables on the accelerator side. Then assemble the throttle lever side.
7. Move the throttle lever into the idle position and the pedal free. Adjust the cable length until the throttle lever makes contact with the arm sensor, then lock in position. Tighten the nuts.
8. Move the throttle lever into the full throttle position and the pedal pushed down all the way. Adjust the operating range until the throttle lever makes contact with the arm sensor.

4.3.2 Assemble the throttle lever (1726E mechanical)

Procedure

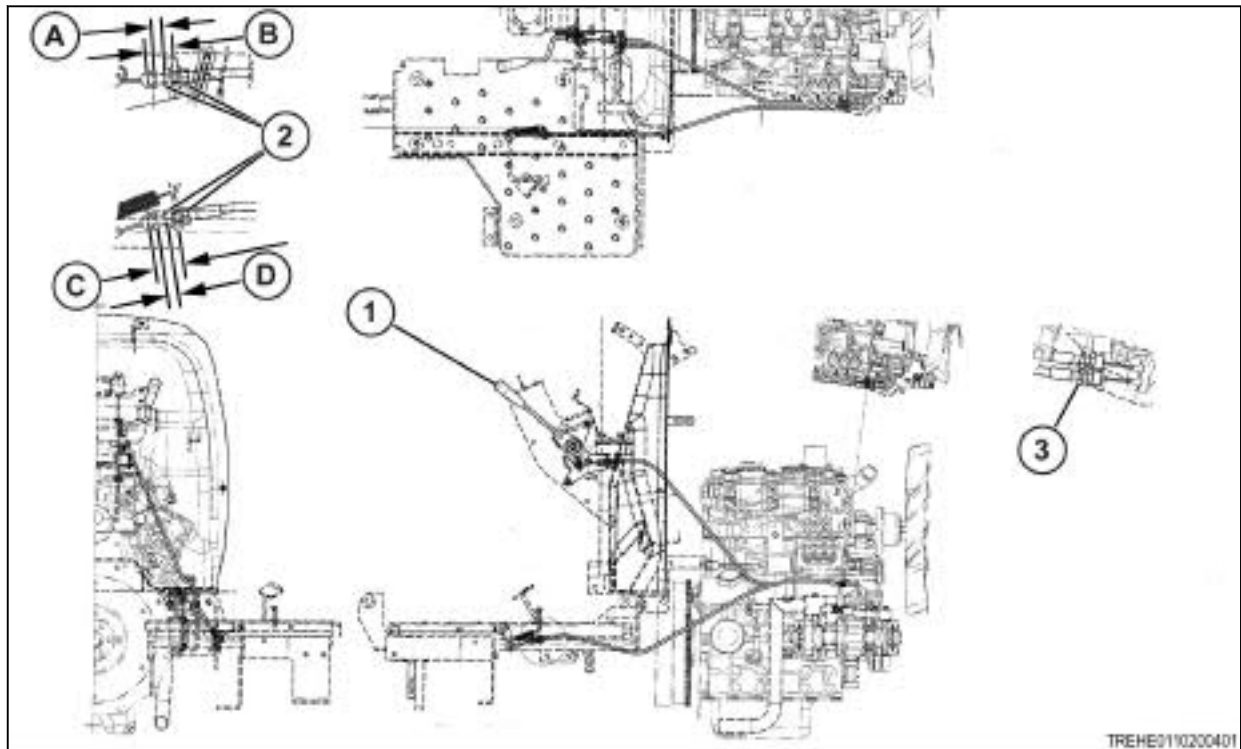


Fig. 8

1. Tighten the nut until the handle top operating load (1) is 29.4 N to 39.2 N (6.6 lbf to 8.8 lbf) . Lock the nut with a second nut.
2. Set the distance (A) to 19.5 mm (0.77 in). Set the distance (B) to 5.0 mm (0.2 in).
3. Set the distance (C) to 20.5 mm (0.81 in). Set the distance (D) to 6.0 mm (0.24 in).
4. Tighten the nuts (2) to 11.8 Nm to 17.2 Nm (8.7 lbf ft to 17.7 lbf ft).
5. Tighten the nuts (3) to 4.9 Nm to 7.4 Nm (3.6 lbf ft to 5.5 lbf ft).

4.3.3 Assemble the throttle lever (1726E hydrostatic)

Procedure

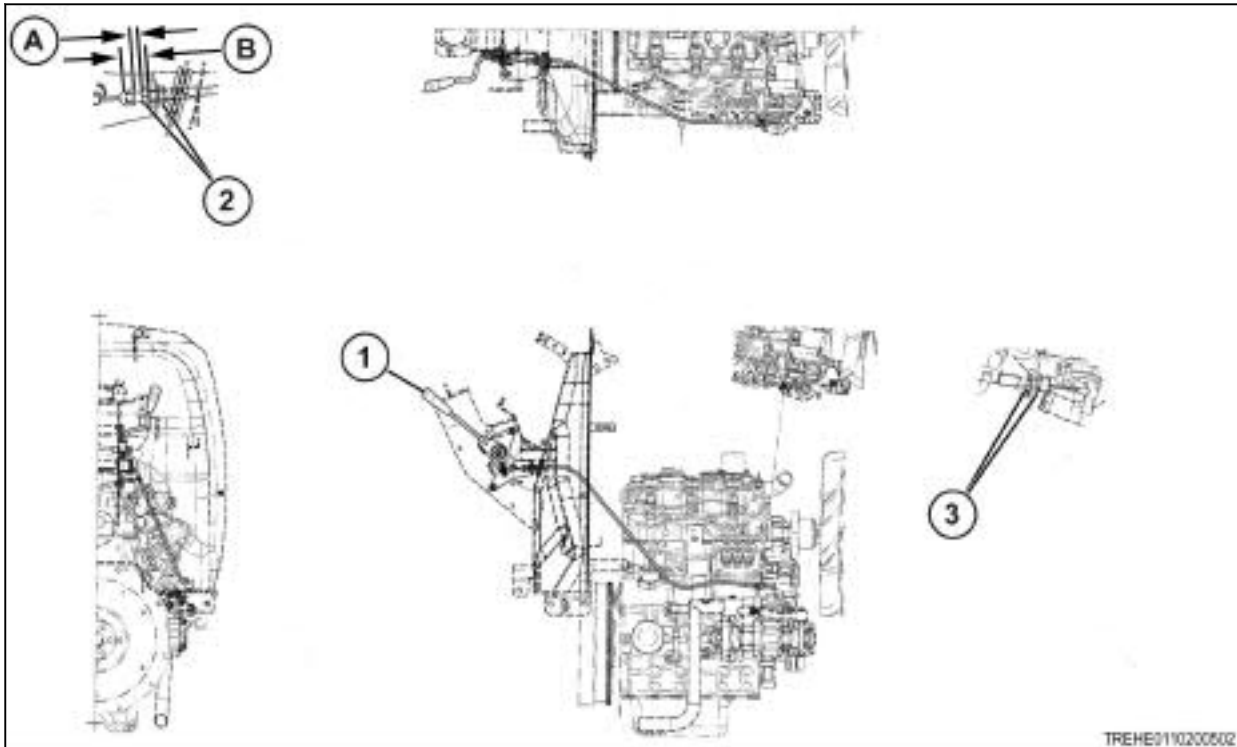


Fig. 9

1. Tighten the nut until the handle top operating load (1) is 29.4 N to 39.2 N (6.6 lbf to 8.8 lbf) . Lock the nut with a second nut.
2. Set the distance (A) to 19.5 mm (0.77 in). Set the distance (B) to 5.0 mm (0.2 in).
3. Tighten the nuts (2) to 11.8 Nm to 17.2 Nm (8.7 lbf ft to 12.7 lbf ft).
4. Tighten the nuts (3) to 4.9 Nm to 7.4 Nm (3.6 lbf ft to 5.5 lbf ft).

4.4 Roll Over Protective Structure

4.4.1 Test the main hydraulics pressure

Procedure

1. Stop the engine.
2. Remove the test plug (1).
3. Install a pressure gauge with a minimum rating of 3000 psi into the test port.
4. Start the machine and move the auxiliary valve lever into the raise or the lower position. Do not move the lever into the float position, if equipped.

Result

The pressure gauge will indicate the main relief valve pressure. The main relief valve pressure must be 14.7 mPa (2132 psi). If the pressure is low, check the main relief valve and then the main pump.

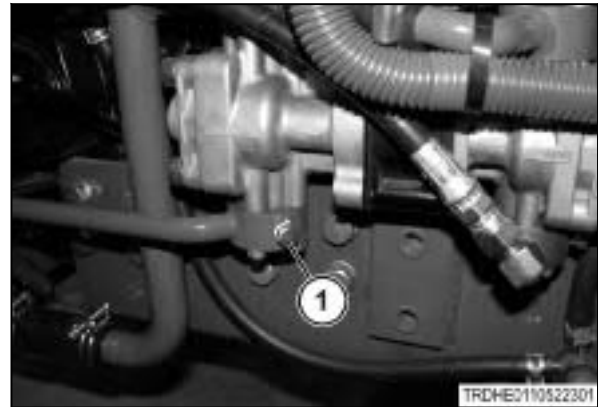


Fig. 10

5. Stop the engine.
6. Remove the pressure gauge.
7. Wrap the thread-tape on the test plug and install the test plug.

4.4.2 Remove the Roll Over Protective Structure

IMPORTANT: Never weld on or drill into any portion of the ROPS. This will compromise the integrity of the ROPS.

Procedure

1. Loosen the adjusting screw (1).
2. Remove the retaining pin (2) and the pin (3).
3. Support the folding Roll Over Protective Structure (ROPS) and remove the nuts (4) and the cap screw (5).
4. Remove the folding ROPS (6).

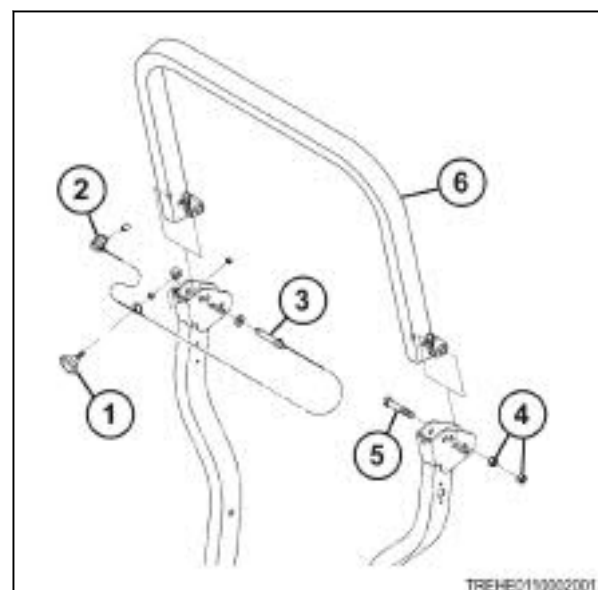


Fig. 11

4. Chassis

5. Remove the cap screw (3) and the washers (2).
6. Remove the lower ROPS (1).

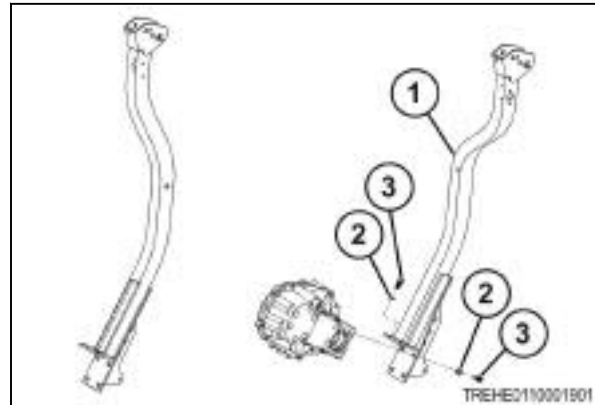


Fig. 12

4.4.3 Install the Roll Over Protective Structure

IMPORTANT: Never weld on or drill into any portion of the ROPS. This will compromise the integrity of the ROPS.

Procedure

1. Position the lower Roll Over Protective Structure (ROPS) (1) on the axle housing.
2. Install the washers (2) and the cap screws (3). Tighten the cap screws to 140 Nm to 164 Nm (103 lbf ft to 121 lbf ft).

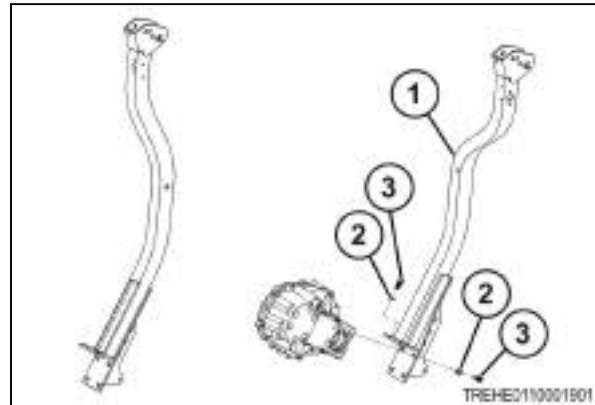


Fig. 13

3. Position and support the folding ROPS (6) to the lower ROPS.
4. Install the cap screw (5) and the nuts (4). Jam the nuts to 82 Nm to 117 Nm (60 lbf ft to 86 lbf ft).
5. Install the pin (3) and the retaining pin (2) .

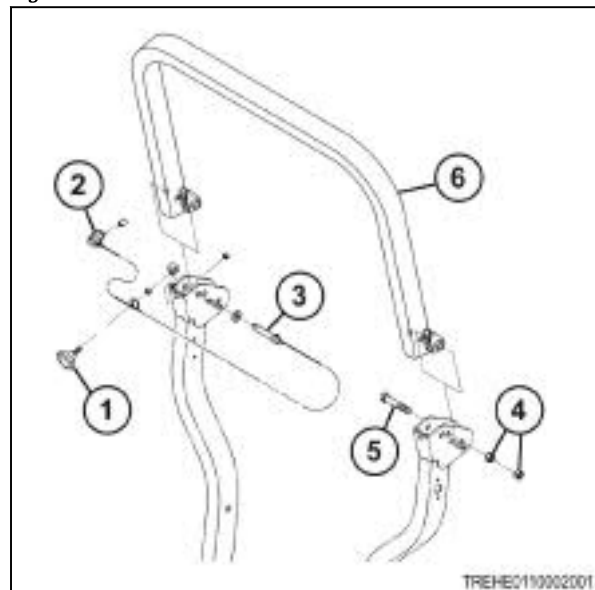


Fig. 14

6. Tighten the adjusting screw (1) to 3.5 Nm to 4.4 Nm (2.5 lbf ft to 3.2 lbf ft).

4.5 Three-point linkage

4.5.1 Three-point linkage

- (1) Lowering links
- (2) Lift rods
- (3) Stabilizer
- (4) Top links

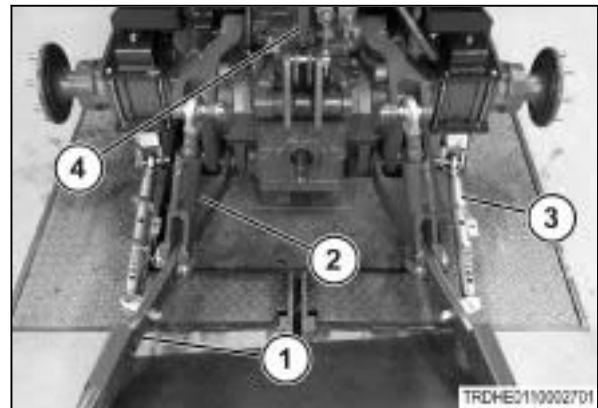


Fig. 15

The linkage has multiple positions for implement height adjustment.

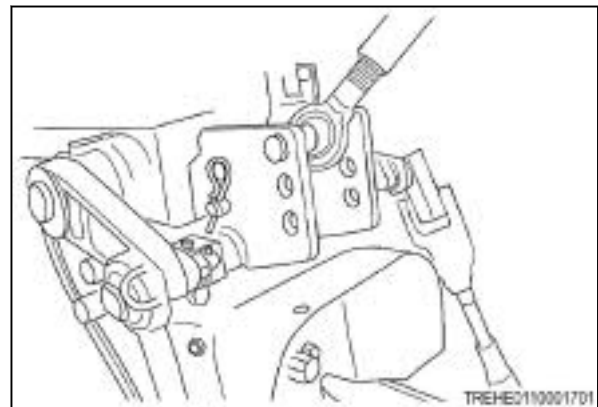


Fig. 16

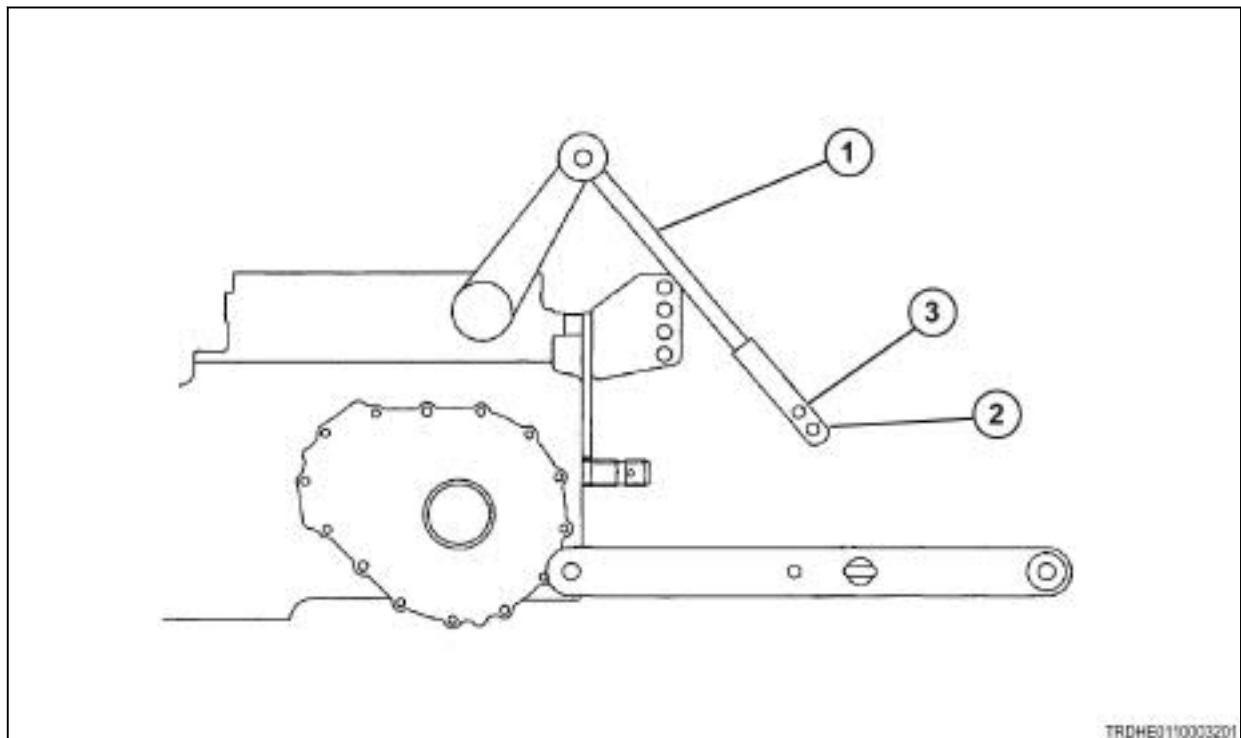


Fig. 17

The lift rods (1) also have multiple positions. The bottom hole (2) is the initial setting. The upper hole (3) will increase the lift height and reduce the lift depth.

4.5.2 Three-point lift linkage dimensions

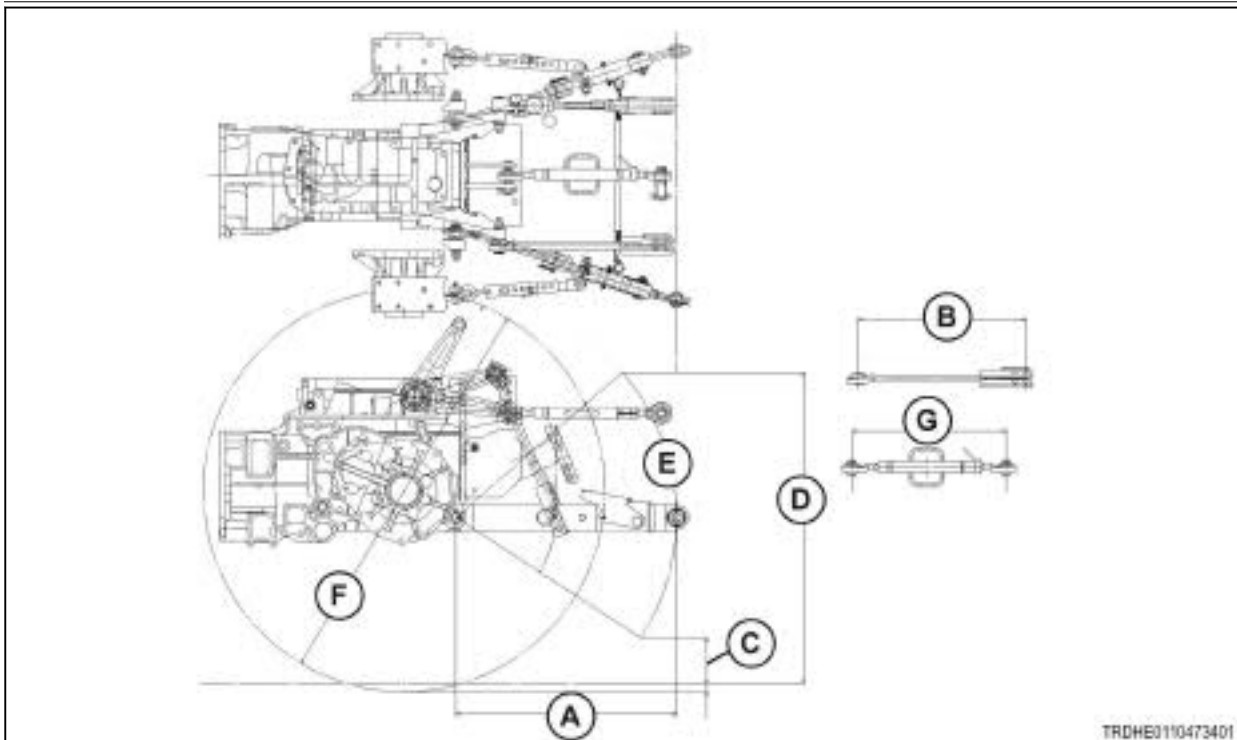


Fig. 18

- | | |
|---|---|
| (A) Lower linkage length: 632 mm (24.9 in) | (E) Lower linkage stroke: 640 mm (25.22 in) bottom hole. |
| (B) Lift rod length: 450 to 496 mm (17.75 to 19.50 in) | (F) Tire circumference: 11.2 x 24 AG |
| (C) Lower linkage height (bottom): 160 mm (6.3 in) bottom hole. | (G) Top linkage length: 445 to 655 mm (17.50 to 25.75 in) |
| (D) Lower linkage height (top): 800 mm (31.52 in) bottom hole. | |

4.6 Drawbar

4.6.1 Drawbar

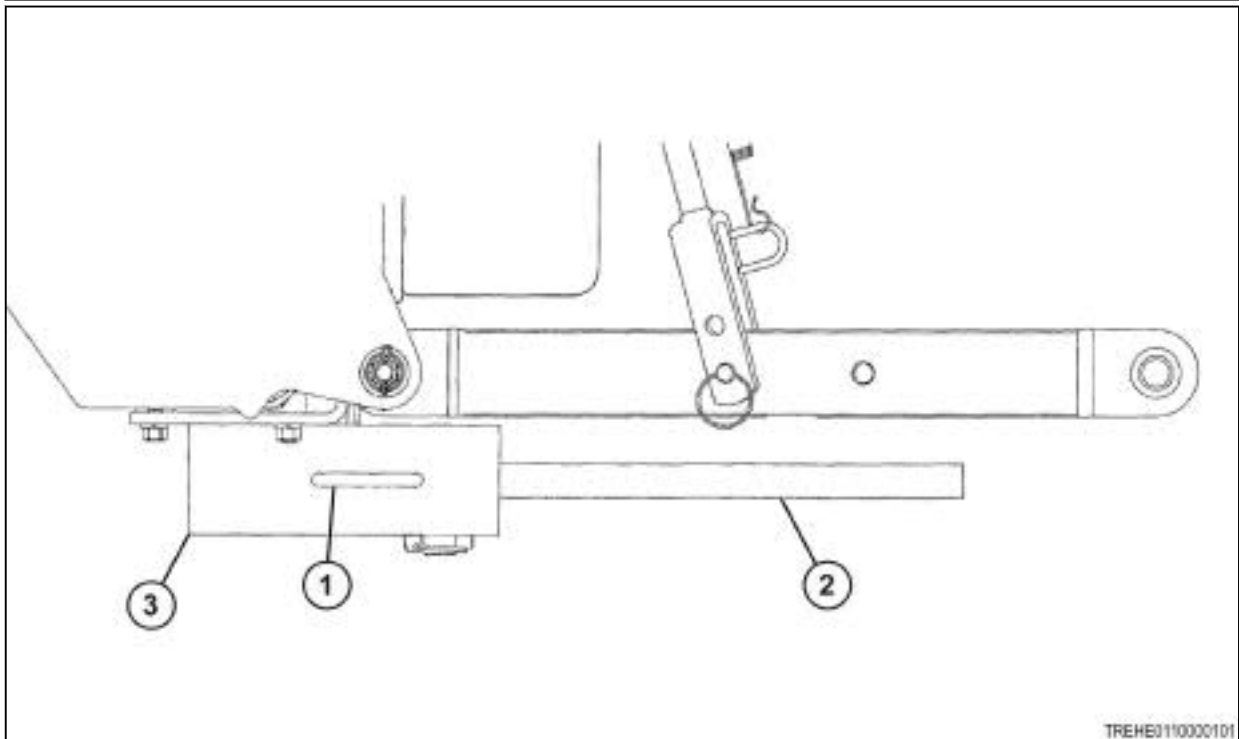


Fig. 19

- (1) Chain holder
- (2) Drawbar

- (3) Drawbar bracket

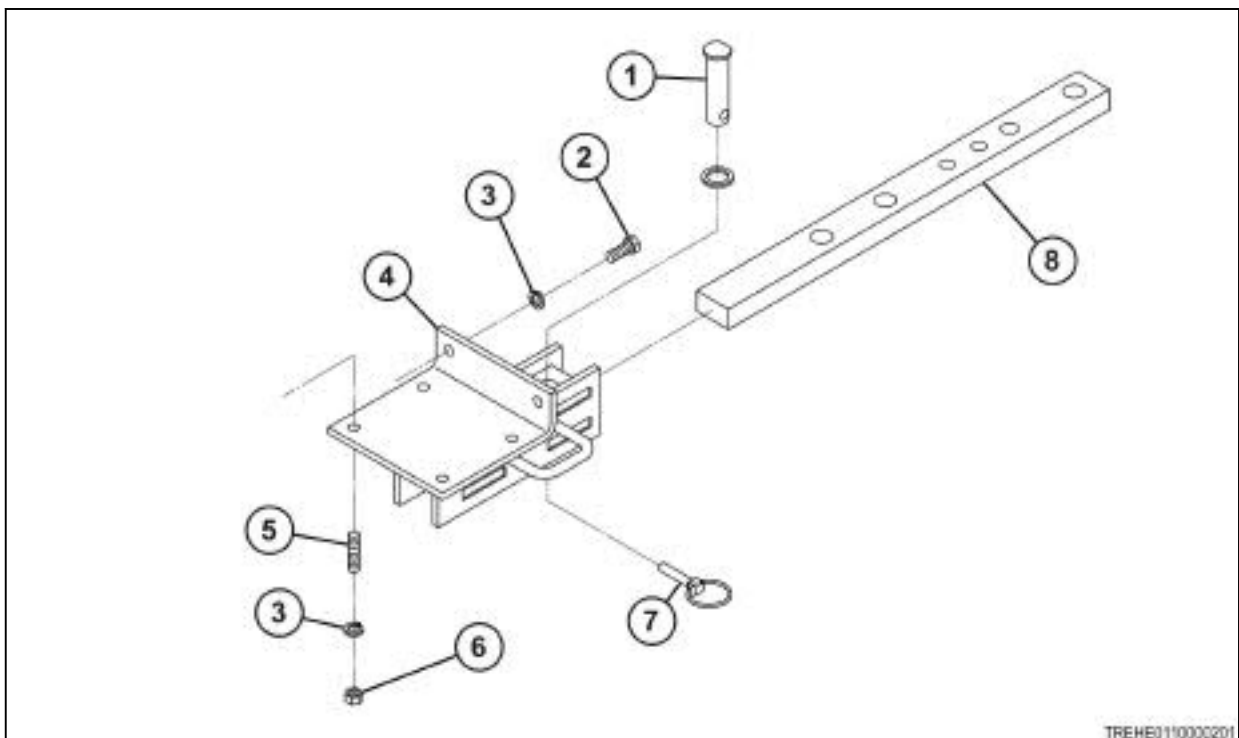


Fig. 20

- (1) Pin

- (2) Bolt

4. Chassis

(3) Lock washer
(4) Drawbar bracket
(5) Stud

(6) Nut
(7) Latch pin
(8) Drawbar

4.7 Wheels and tires

4.7.1 Wheels and tires

Examine the wheels and the tires periodically for correct inflation pressures. Also check for correct wheel torque and any physical damage. Make sure to correct any problems before operating the machine.

4.7.2 Tire inflation pressures

Maintaining correct tire pressure will help maximize the tire life. Have a qualified individual change the tire if the tire has deep scratches, cuts or punctures.

NOTE: When replacing any tire, use the original tire size. This will make sure the front axle over speed is maintained on four-wheel drive models.

Tire type	Tire location	Tire size	Tire pressure kPa (psi)
AG	Front	7-16 6PL	248 kPa (36 psi)
	Rear	11.2-24 4PL	124 kPa (18 psi)
Turf	Front	27 x 8.50-15 4PL	207 kPa (30 psi)
	Rear	38 x 14.00-20 4PL	138 kPa (20 psi)
R-4	Front	27 x 8.50-15 6PL	310 kPa (45 psi)
	Rear	15-19.5 6PL	207 kPa (30 psi)

4.7.3 Wheel bolt torque

Periodically check the torque on all the wheel bolts.

Front wheel bolts (1)	120 Nm (89 lbf ft)
Rear wheel bolts (2)	120 Nm (89 lbf ft)

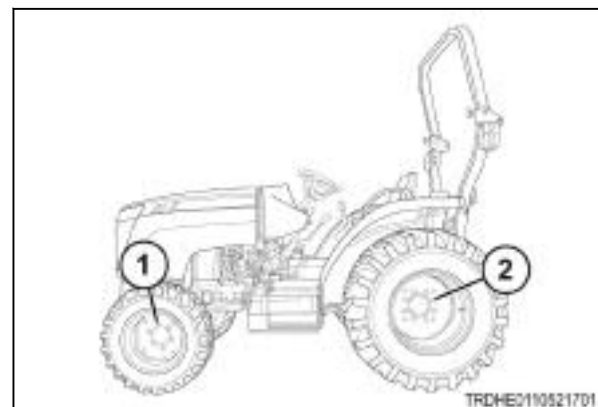


Fig. 21

4.7.4 Troubleshooting

Steering wheel hard to turn	
Cause(s)	Solution(s)
Tire inflation too low	Inflate to specified pressure
Broken thrust bearing	Replace the thrust bearing
Stuck ball joint or tie-rod end	Lubricate or replace
Broken ball joint or tie-rod end	Replace
Seizure or poor lubrication of axle end bushing	Lubricate or replace

Vibrating or pulling steering wheel	
Cause(s)	Solution(s)
Wheels not balanced	Adjust the wheel balance
Wheel deflection	Repair or replace
Diameter of both tires not equal	Adjust inflation or replace
Loose, worn, or damaged wheel axle bearing	Replace the bearing
Loose, worn, or damaged steering wheel shaft	Tighten or replace
Worn final drive bushing	Replace the bushing
Loose final drive front axle tightening bolts	Tighten the bolts
Loose front lug nuts	Tighten the nuts

Steering wheel tends to turn to the right or left when traveling down a straight paved road	
Cause(s)	Solution(s)
Tire wear	Replace the tire
Different tire diameters	Adjust inflation or replace the tire
Damaged final drive bearing	Replace the final drive bearing

Excessive or eccentric wear of tire	
Cause(s)	Solution(s)
Tire inflation too low	Adjust the tire pressure
Worn front wheel shaft bearing	Replace the front wheel shaft bearing
Toe-in adjustment not correct	Adjust toe-in to 2 to 6 mm (0.08 to 0.24 in)
Four-wheel drive is always engaged	Engage the four-wheel drive only when necessary

Noise	
Cause(s)	Solution(s)
Loose fasteners	Tighten correctly to the specified torque
Worn or damaged final drive bearing	Replace the final drive bearing
Worn bushing	Replace the bushing
Wear or poor movement of the tie-rod end	Lubricate or replace
Excessive backlash of the differential and the bevel gears	Adjust the backlash

Different steering angles in both directions	
Cause(s)	Solution(s)
Lengths of right-hand and left-hand tie-rods are different	Adjust the tie-rod lengths

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com