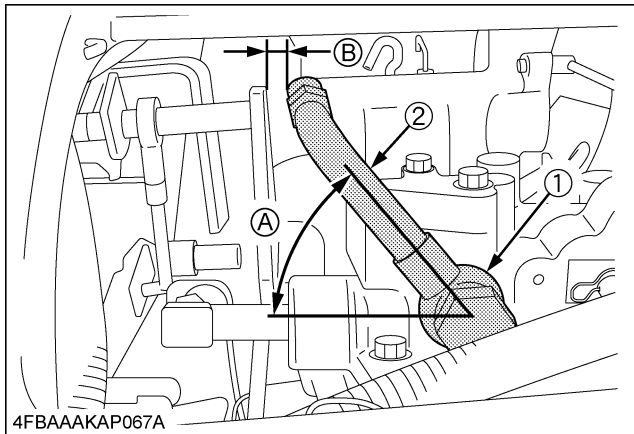
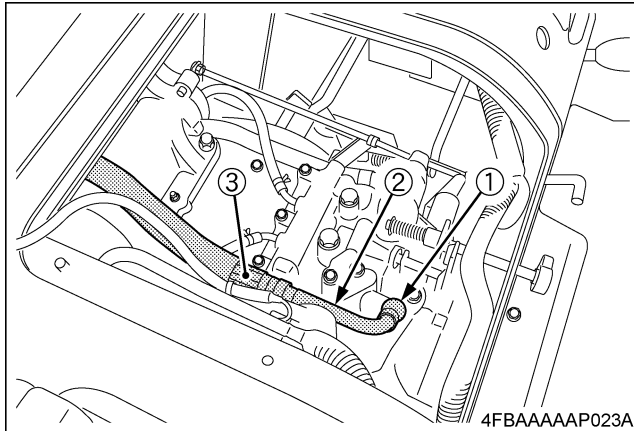


3. Connect the backhoe outlet hose to the P port of the valve cover.

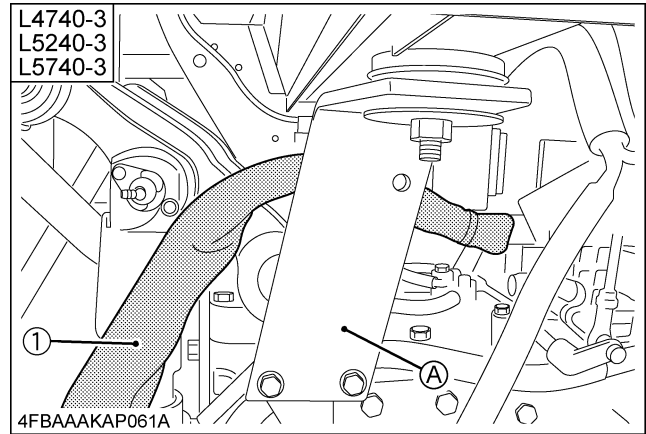


- (1) P port (A) 60°  
 (2) Backhoe outlet tube (B) 10 mm  
 (3) Backhoe inlet hose (3/4-16)  
 Tightening torque: 36 to 40 N·m  
 (3.6 to 4.1 kgf·m, 26 to 30 lbf·ft)


4. Clamp the hose to stay using a plastic band.

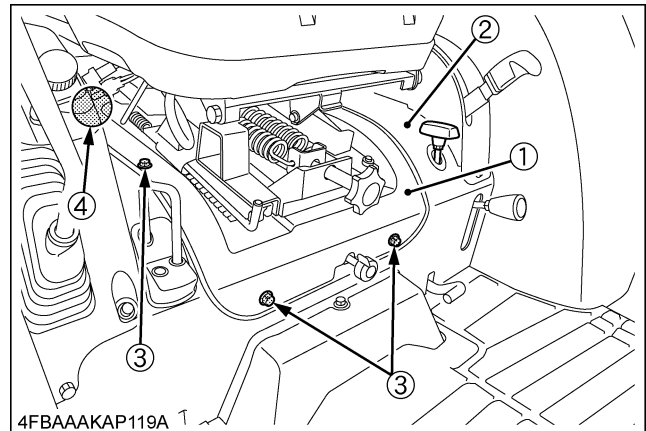
**IMPORTANT :**

- Hoses pre-installed on the control valve assembly are not securely tightened to ease installation of hoses to hydraulic block. Be sure to securely tighten all hose fittings after installing.
- Adjust the hose fittings so the hoses clear the tractor.



- (1) Hose (A) Clamp onto this stay

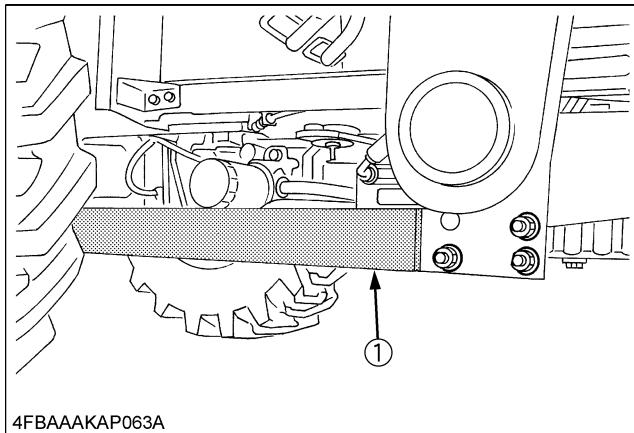
5.  Attach the operating seat to the floor seat cover. Tighten the bolts and nuts by correct tightening torque.



- (1) Operating seat  
 (2) Floor seat cover  
 (3) 4 - M8 bolts  
 (4) 2 - M8 nuts  
 Tightening torque: 23.6 to 27.4 N·m  
 (2.4 to 2.8 kgf·m, 17.4 to 20.2 lbf·ft)

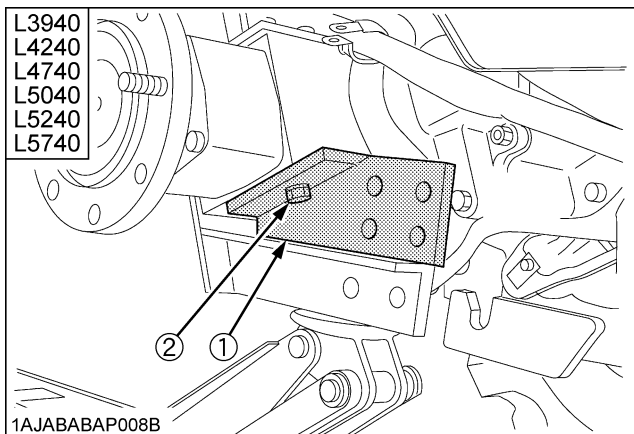
## ■ Sub Frame

1. Detach the front loader sub frame.



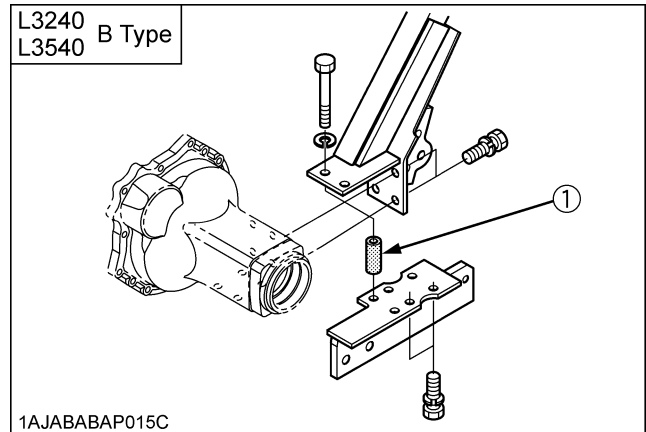
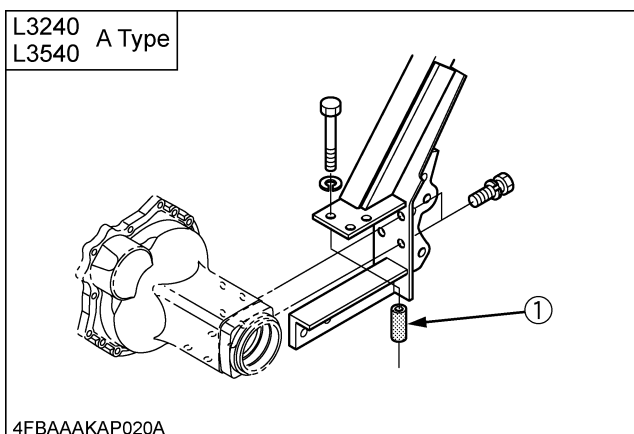
(1) Sub frame

2. Attach the rear bracket in place.

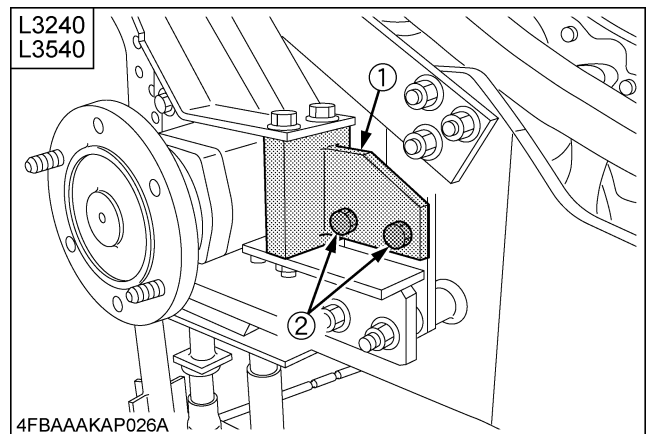


(1) Rear bracket  
(2) 2 - M14 x 30 bolts

3. On the L3240 and L3540, remove the collar first and then attach the rear bracket.

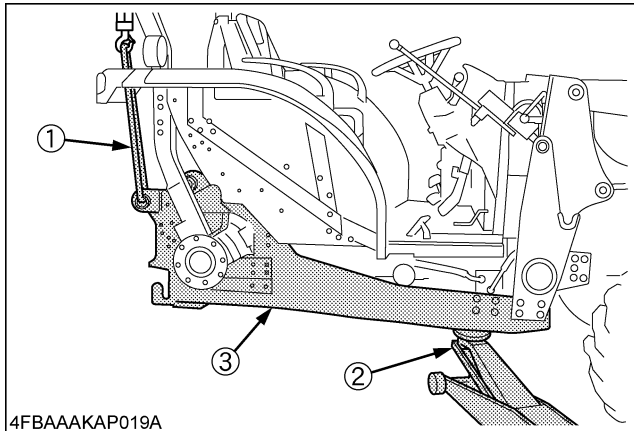


(1) Collar

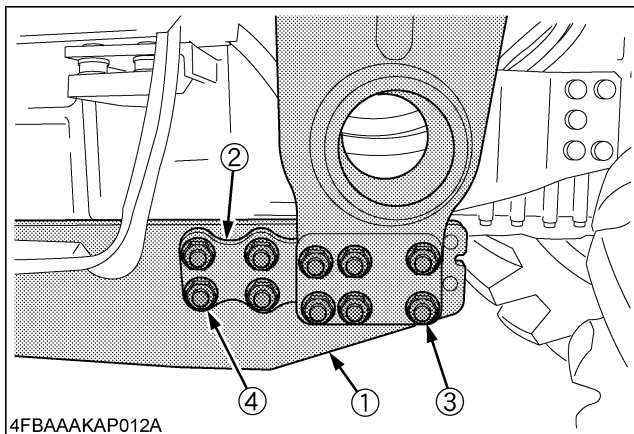


(1) Rear bracket  
(2) 2 - M16 x 55 bolts [L3240 L3540]  
2 - 5/8 hardened plain washers  
2 - M16 spring lock washers  
2 - M16 nuts  
Tightening torque: 196 to 225 N·m  
(20.0 to 23.0 kgf·m, 145 to 166 lbf·ft)

4. Lift the back end of the sub frame using a hoist and jack up the front of the sub frame. Temporarily tighten the bolts and nuts in place.

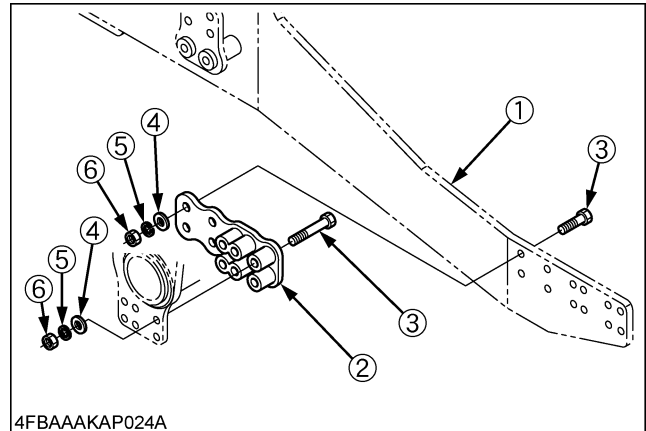


- (1) Nylon strap
- (2) Jack
- (3) Sub frame



- (1) Sub frame
- (2) Front bracket
- (3) 6 - M16 x 130 bolts
- 6 - 5/8 hardened plain washers
- 6 - M16 spring lock washers
- 6 - M16 nuts
- (4) 4 - M16 x 60 bolts
- 4 - 5/8 hardened plain washers
- 4 - M16 spring lock washers
- 4 - M16 nuts

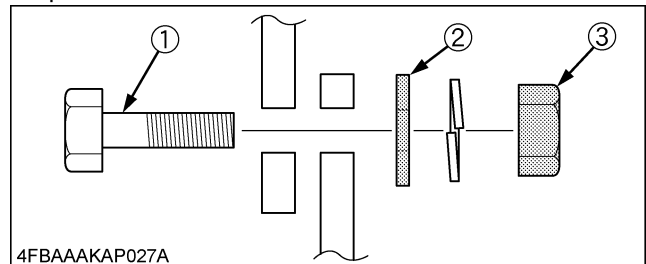
Tightening torque: 196 to 225 N·m  
(20.0 to 23.0 kgf·m, 145 to 166 lbf·ft)



- (1) Sub frame
- (2) Front bracket
- (3) Bolt
- (4) Hardened plain washer
- (5) Spring lock washer
- (6) Nut

#### IMPORTANT :

- If the number of bolts and that of hardened plain washers are the same, additionally put the hardened plain washers at the nut.

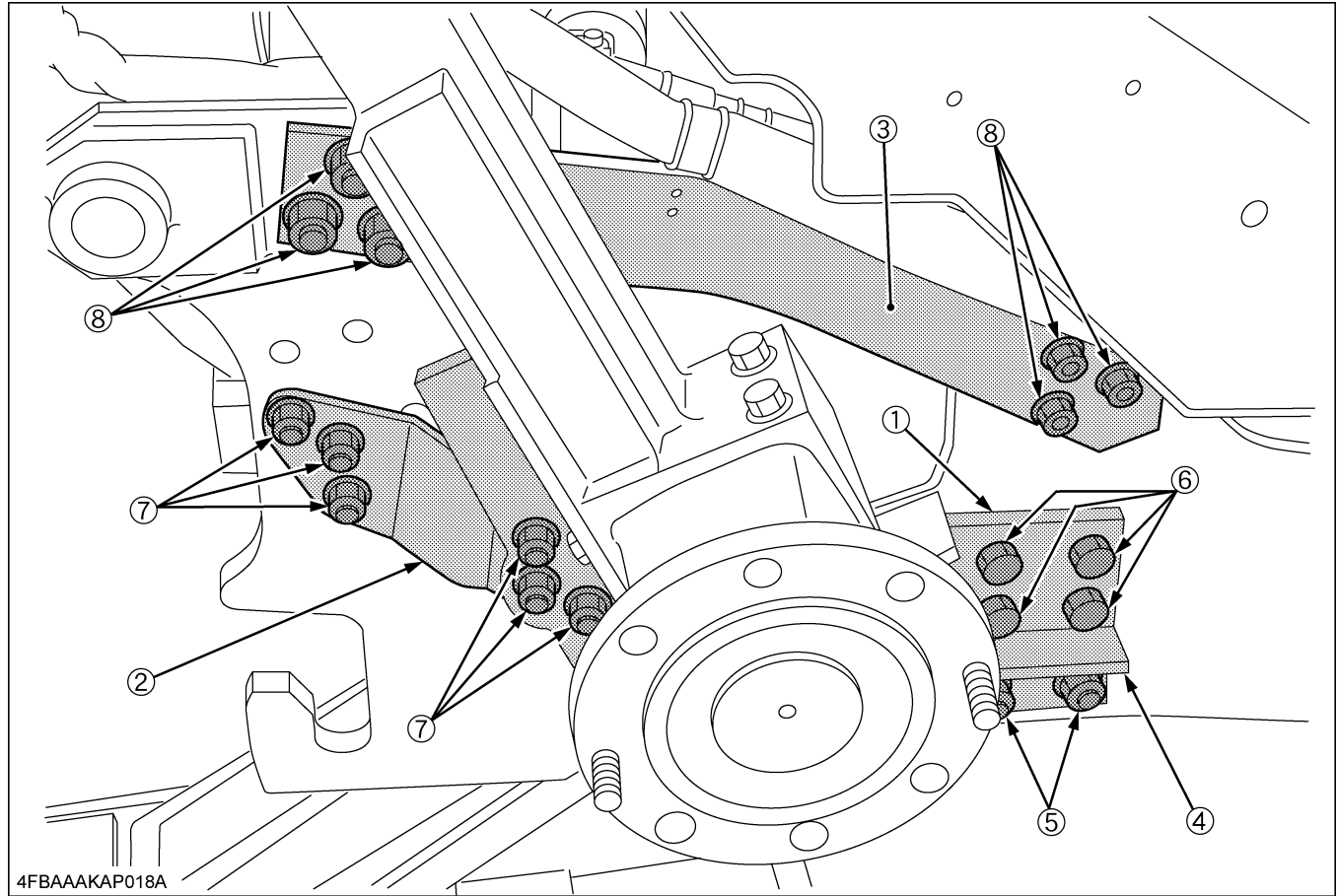


- (1) Bolt
- (2) Hardened plain washer
- (3) Nut

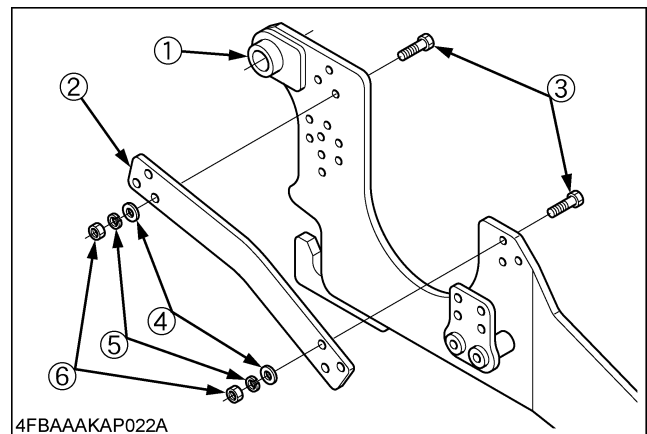
#### IMPORTANT :

- Be sure to apply a nylon strap to the back end of the sub frame for hoisting it.

5. Using the bolts and nuts, temporarily fix the following components to the sub frame: ROPS frame, rear bracket, frame support and connecting plate.



- (1) Rear bracket
  - (2) Frame support
  - (3) Connecting plate
  - (4) ROPS Frame
  - (5) 2 - M16 x 140 bolts  
2 - 5/8 hardened plain washers  
2 - M16 spring lock washers  
2 - M16 nuts
  - (6) 4 - M16 x 50 bolts  
[L3940, L4240, L4740, L5040, L5240, L5740]  
4 - 5/8 hardened plain washers  
4 - M16 spring lock washers  
4 - M16 nuts
  - (7) 6 - M16 x 50 bolts  
6 - 5/8 hardened plain washers  
6 - M16 spring lock washers  
6 - M16 nuts
  - (8) 6 - M16 x 50 bolts  
6 - 5/8 hardened plain washers  
6 - M16 spring lock washers  
6 - M16 nuts
- Tightening torque: 196 to 225 N·m  
(20.0 to 23.0 kgf·m , 145 to 166 lbf·ft)

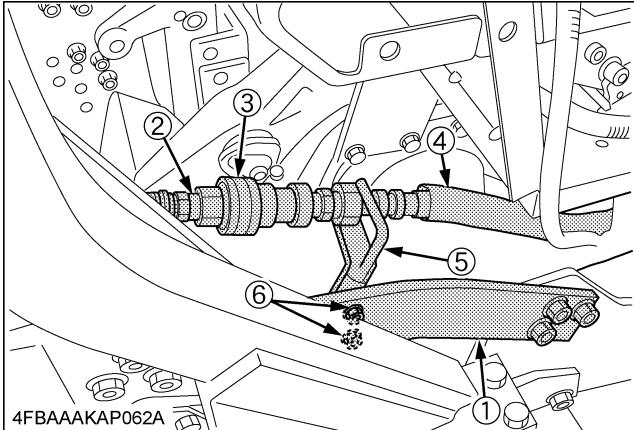


- (1) Sub frame
- (2) Connecting plate
- (3) Bolt
- (4) Hardened plain washer
- (5) Spring lock washer
- (6) Nut

6. Connect the male coupler to the inlet hose. Connect the coupler joint and female coupler to the inlet hose. Fix the coupler joint to the connecting plate (RH). Connect the male coupler to the female coupler.

**NOTE :**

- Take this step after mounting the connection plate (RH) in position.



(1) Connecting plate RH

(2) Male coupler

(3) Female coupler (1/2-14NPTF)

Tightening torque: 49 to 58 N·m

(5.0 to 5.9 kgf·m, 36 to 43 lbf·ft)

(4) Inlet hose (3/4-16)

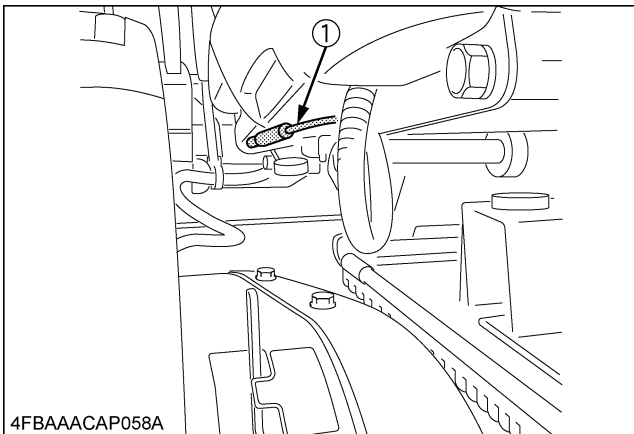
Tightening torque: 36 to 40 N·m

(3.6 to 4.1 kgf·m, 26 to 30 lbf·ft)

(5) Coupler joint

(6) 2 - M8 x 20 flange bolts and nuts

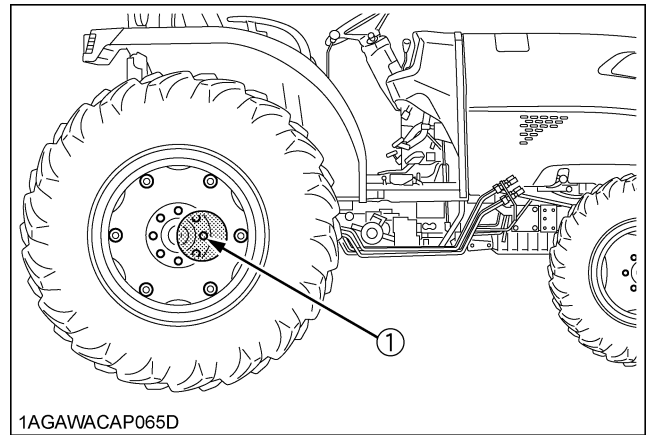
7. After assembling connect the OPC wire harness.



(1) OPC wire harness

◆ Rear wheels

1. [S] Install the right and left rear wheels to the tractor with the bolts and nuts. Tighten the bolts and nuts by the correct tightening torque.

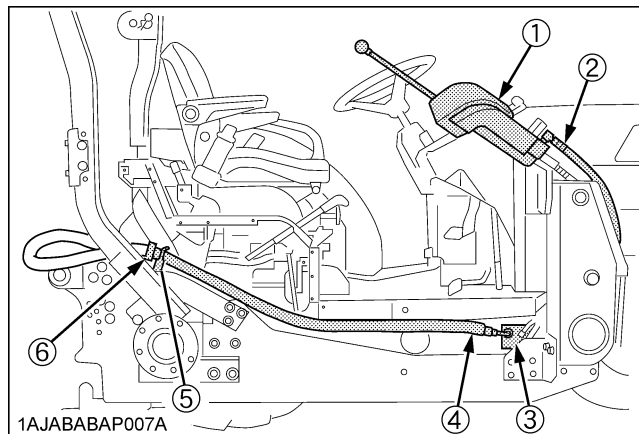


(1) Tightening torque: 215 N·m

(21.9 kgf·m, 158.6 lbf·ft)

## ASSEMBLY [L4400-1, L4600, L4701, MX4700, MX4800, MX5100, MX5200, MX5400, MX5800, MX6000]

### Layout of BH92 Backhoe Hydraulic Lines



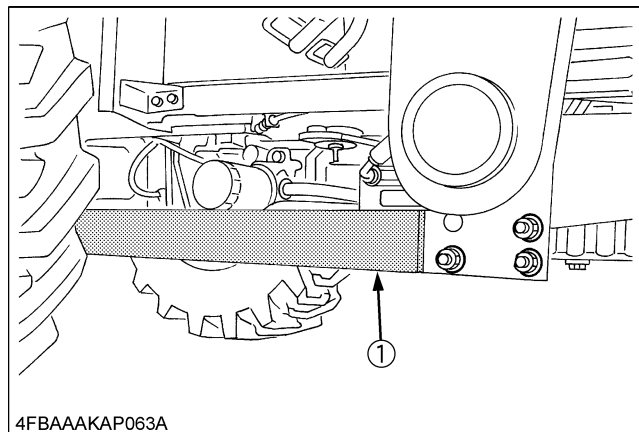
- (1) Front loader valve  
(2) Backhoe inlet hose  
(3) Hydraulic block  
(4) Backhoe outlet hose  
(5) Coupler joint  
(6) Female coupler

### Preparation

1. Detach the rear tires from the tractor.

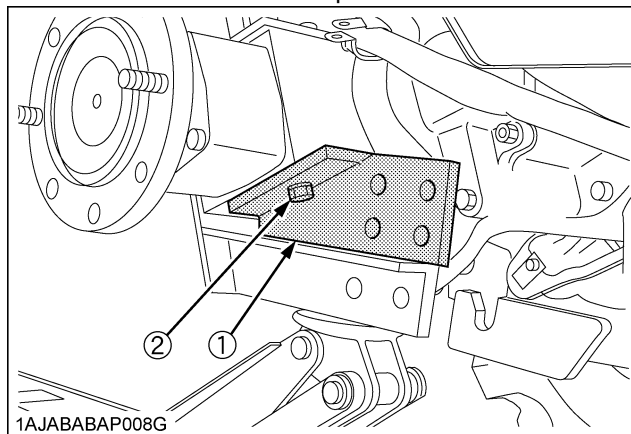
### Sub Frame

Detach the front loader sub frame.

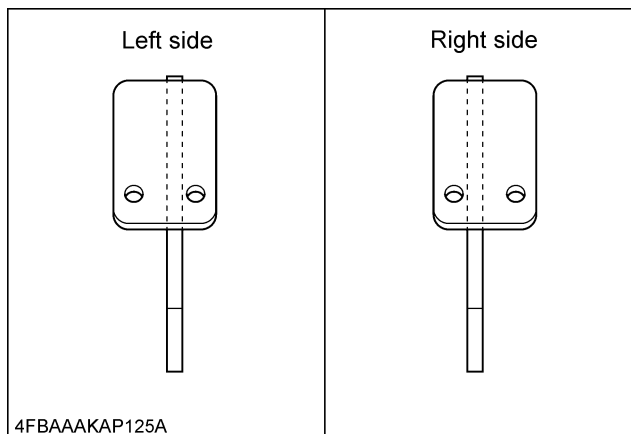


- (1) Sub frame

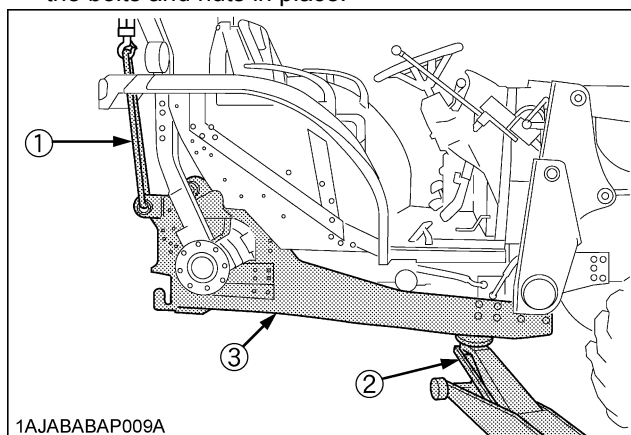
1. Attach the rear bracket in place.



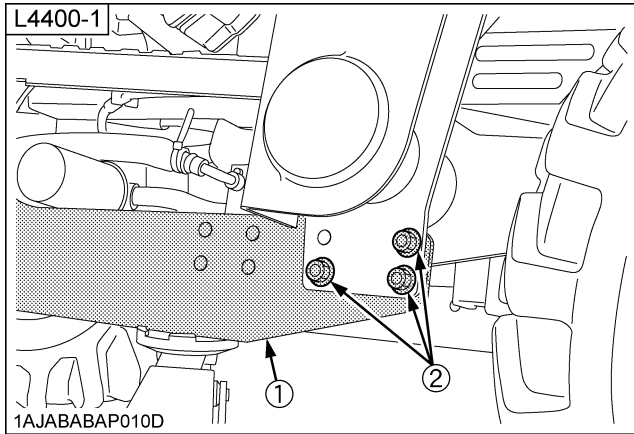
- (1) Rear bracket RH (Pictured)  
Rear bracket LH (Not pictured)  
Tightening torque: 124 to 147 N·m  
(12.6 to 15.0 kgf·m, 91.5 to 108.4 lbf·ft)



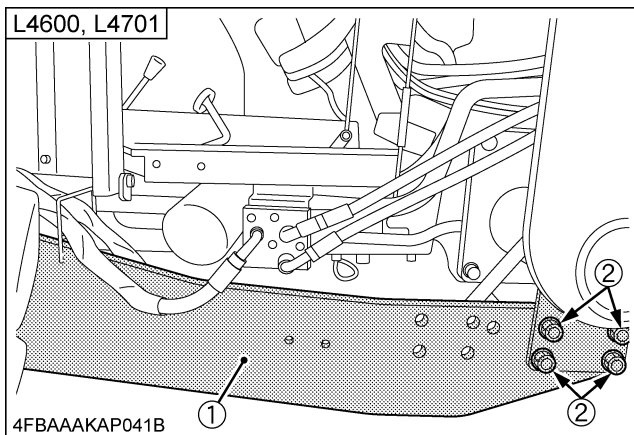
2. Lift the back end of the sub frame using a hoist and jack up the front of the sub frame. Temporarily tighten the bolts and nuts in place.



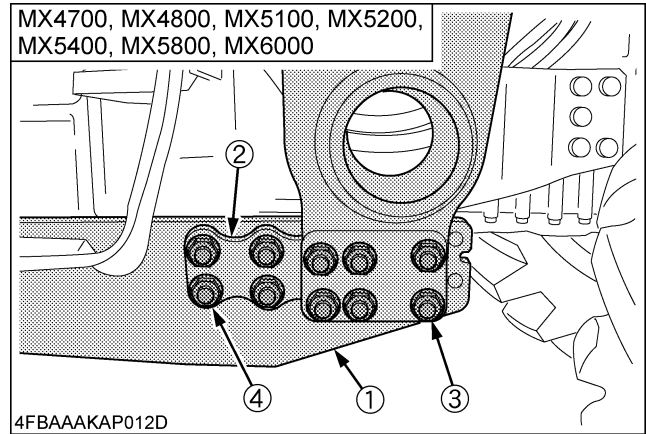
- (1) Nylon strap  
(2) Jack  
(3) Sub frame



- (1) Sub frame  
 (2) 3 - M16 x 55 bolts  
     3 - 5/8 hardened plain washers  
     3 - M16 spring lock washers  
     3 - M16 nuts  
 Tightening torque: 196 to 225 N·m  
                             (20.0 to 23.0 kgf·m, 145 to 166 lbf·ft)



- (1) Sub frame  
 (2) 4 - M16 x 50 bolts  
     4 - 5/8 hardened plain washers  
     4 - M16 spring lock washers  
     4 - M16 nuts  
 Tightening torque: 196 to 225 N·m  
                             (20.0 to 23.0 kgf·m, 145 to 166 lbf·ft)

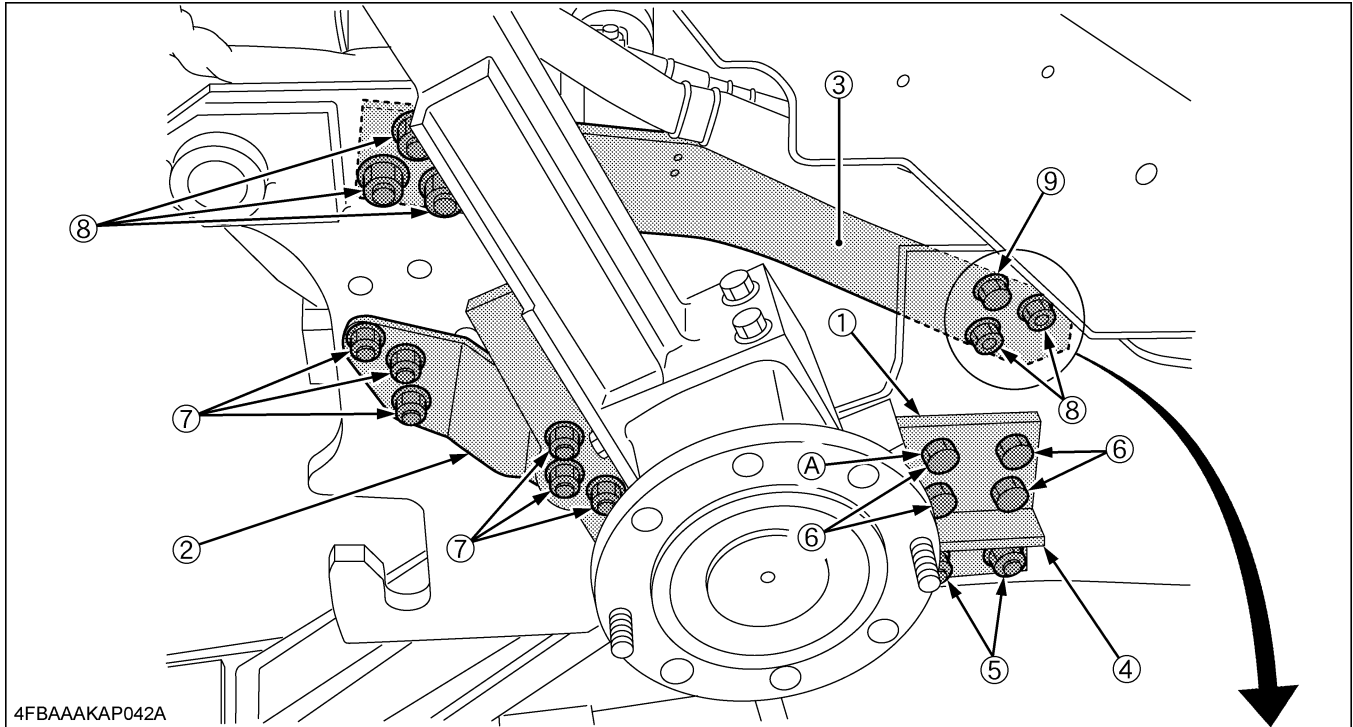


- (1) Sub frame  
 (2) Front bracket  
 (3) 6 - M16 x 130 bolts  
     6 - 5/8 hardened plain washers  
     6 - M16 spring lock washers  
     6 - M16 nuts  
 (4) 4 - M16 x 60 bolts  
     4 - 5/8 hardened plain washers  
     4 - M16 spring lock washers  
     4 - M16 nuts  
 Tightening torque: 196 to 225 N·m  
                             (20.0 to 23.0 kgf·m, 145 to 166 lbf·ft)

#### IMPORTANT :

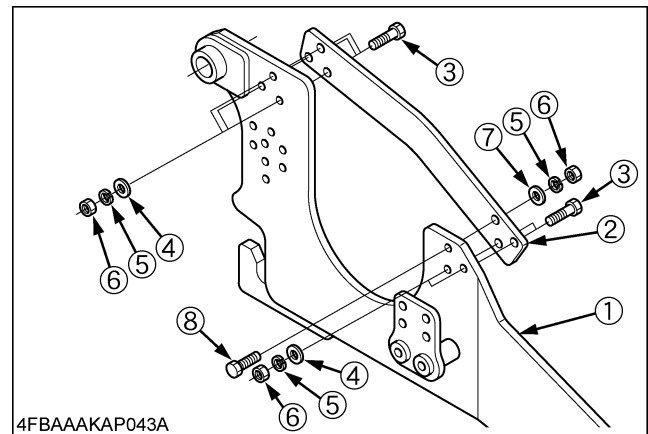
- Be sure to apply a nylon strap to the back end of the sub frame for hoisting it.
- For the three-section auxiliary control valve, move the inlet hose behind the sub frame (below the auxiliary control valve) before hoisting the sub frame.

3. Using the bolts and nuts, temporarily fix the following components to the sub frame: ROPS frame, rear bracket, frame support and connecting plate.



- (1) Rear bracket  
 (2) Frame support  
 (3) Connecting plate  
 (4) ROPS Frame  
 (5) 2 - M16 x 140 bolts  
     2 - 5/8 hardened plain washers  
     2 - M16 spring lock washers  
     2 - M16 nuts  
 (6) [L4400-1, L4600, L4701]  
     4 - M16 x 50 bolts  
     4 - 5/8 hardened plain washers  
     4 - M16 spring lock washers  
     4 - M16 nuts  
 (7) 6 - M16 x 50 bolts  
     6 - 5/8 hardened plain washers  
     6 - M16 spring lock washers  
     6 - M16 nuts  
 (8) 5 - M16 x 50 bolts  
     5 - 5/8 hardened plain washers  
     5 - M16 spring lock washers  
     5 - M16 nuts  
 (9) [L4600, L4701]  
     1 - M16 x 45 bolt  
     1 - M16 spring lock washer  
     1 - M16 nut  
 (A) [L4400-1, L4600, L4701]

- (6) [MX4700, MX4800, MX5100, MX5200, MX5400, MX5800, MX6000]  
     3 - M16 x 50 bolts  
     3 - 5/8 hardened plain washers  
     3 - M16 spring lock washers  
     3 - M16 nuts  
 (9) [L4400-1, MX4700, MX4800, MX5100, MX5200, MX5400, MX5800, MX6000]  
     1 - M16 x 50 bolt  
     1 - 5/8 hardened plain washer  
     1 - M16 spring lock washer  
     1 - M16 nut



- (1) Sub frame  
 (2) Connecting plate  
 (3) Bolt  
 (4) Hardened plain washer  
 (5) Spring lock washer  
 (6) Nut  
 (7) Hardened plain washer [L4400-1, MX4700, MX5100]  
 (8) Bolt [L4600, L4701: M16 x 45]  
     [L4400-1, MX4700, MX4800, MX5100, MX5200, MX5400, MX5800, MX6000: M16 x 50]

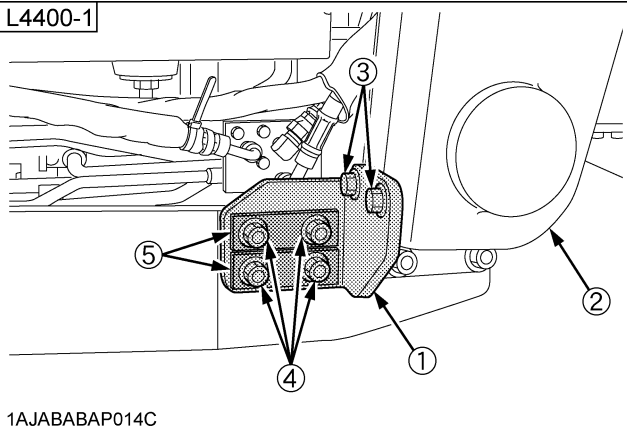
**NOTE :**  
 ● Direction of Bolt

Tightening torque: 196 to 225 N·m  
 (20.0 to 23.0 kgf·m , 145 to 166 lbf·ft)



4. Temporarily fix the front bracket using the bolts and nuts.
5. First, tighten up the two bolts at the front loader's main frame to the specified torque.

**L4400-1**



- (1) Front bracket  
 (2) Loader main frame  
 (3) 2 - M16 x 55 bolts  
     2 - 5/8 hardened plain washers  
     2 - M16 spring lock washers  
     2 - M16 nuts  
 (4) 4 - M16 x 55 bolts  
     4 - M16 spring lock washers  
     4 - M16 nuts  
 (5) 2 - Locking washers 2 (outside)

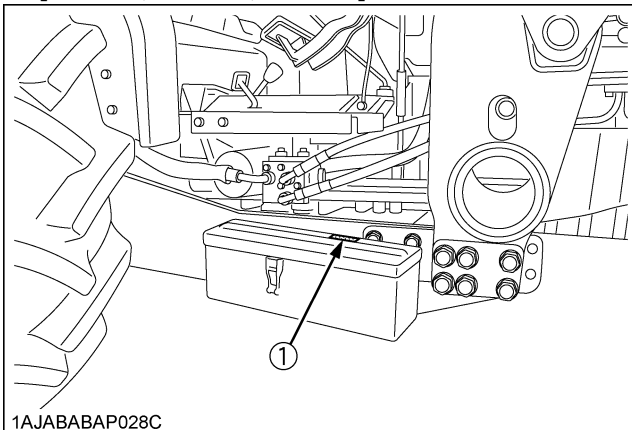
*Tightening torque: 196 to 225 N·m*

*(20.0 to 23.0 kgf·m, 145 to 166 lbf·ft)*

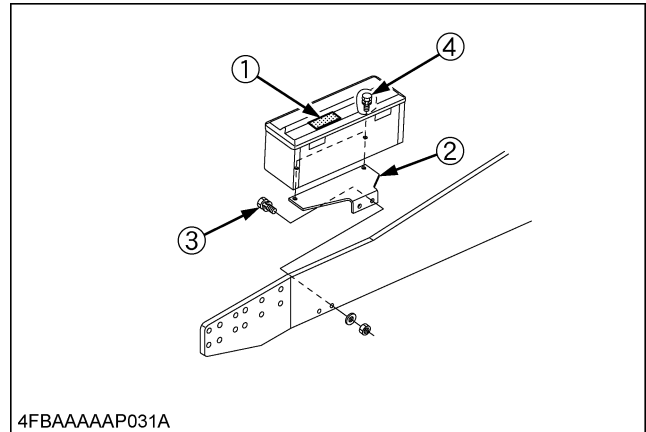
6. Then tighten up all the remaining applied bolts and nuts to the specified torque.

7. Install the tool box. Apply the label.

**[L4400-1, MX4700, MX5100]**



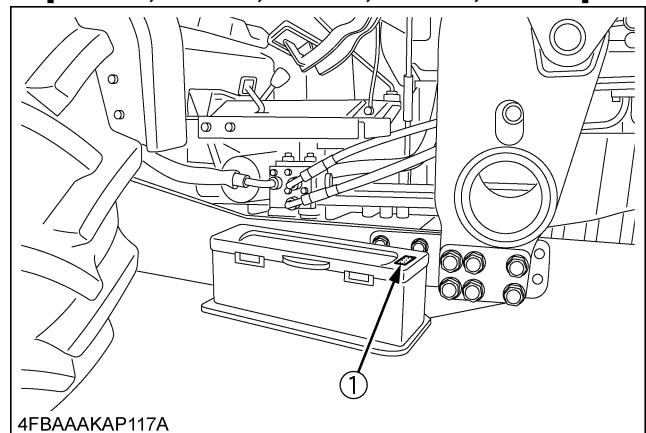
1AJABABAP028C



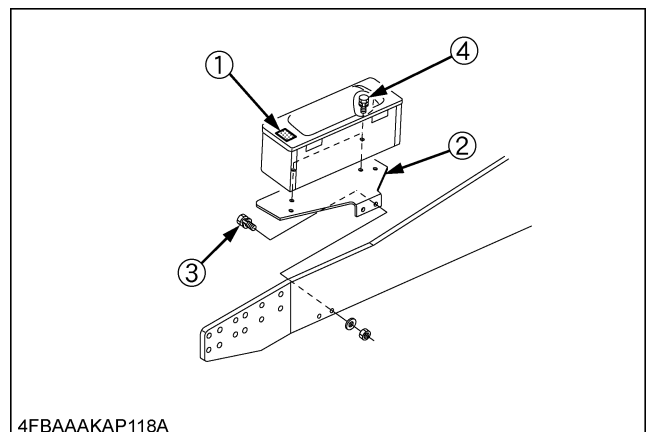
- (1) NO STEP label  
 (2) Tool box stay

- (3) 2-M10 x 35 bolts  
     2-M10 hardened plain washers  
     2-M10 spring washers  
     2-M10 nuts  
 (4) 2-M8 x 20 bolt with washer

**[MX4800, MX5200, MX5400, MX5800, MX6000]**



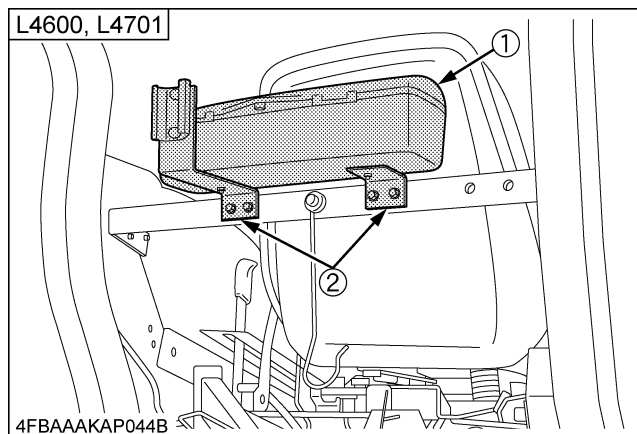
4FBAAAKAP117A



- (1) NO STEP label  
 (2) Tool box stay

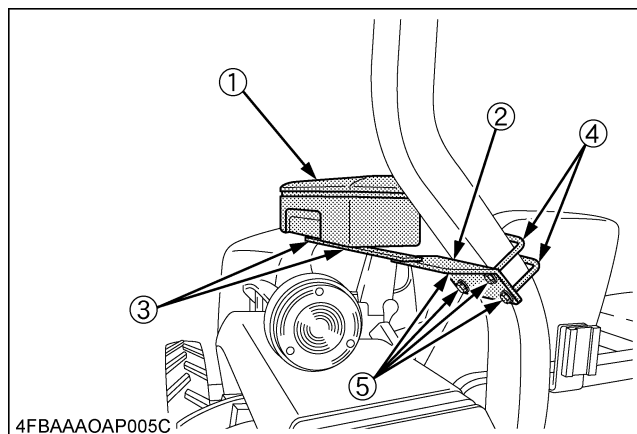
- (3) 2-M10 x 35 bolts  
     2-M10 hardened plain washers  
     2-M10 spring washers  
     2-M10 nuts  
 (4) 2-M8 x 20 bolt with washer

Detach the tool box and stays from the fender bracket.



- (1) Tool box  
(2) Tool box stay

Afterwards, attach the tool box and the stay to the left side of the tractor ROPS.



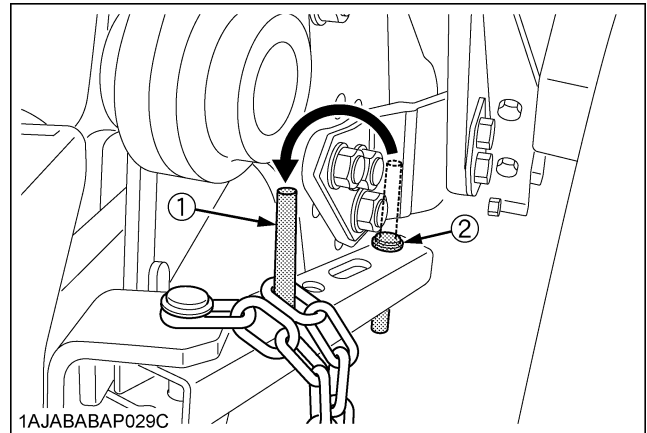
- (1) Tool box  
(2) Tool box stay  
(3) 2 - M8 x 25 bolt with washers  
(4) U-bolt  
(5) 4 - M10 flange nuts

**NOTE :**

- Secure the tool box horizontally as shown above.

8. In combination with the 3-point link.

- 1) Move the set pin to another hole.
- 2) Install the stabilizer with the clevis pin.



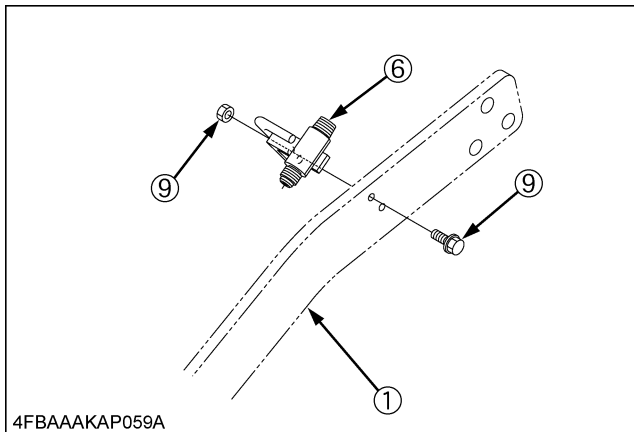
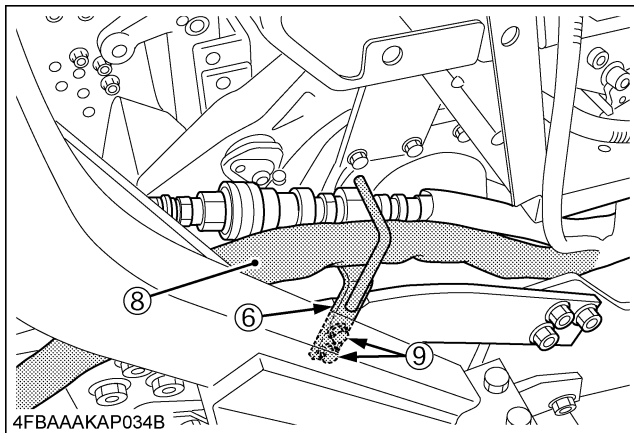
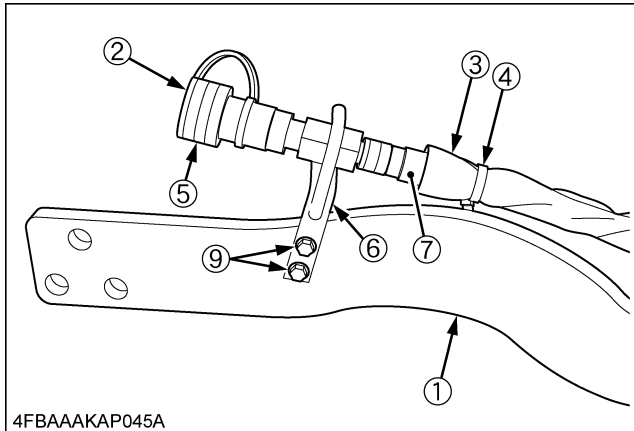
- (1) Set pin  
(2) Clevis pin

**[BH4972, BH4975, BH4976, BH4988]**

9. Connect the female coupler with the blue cap to the coupler joint, using thread tape.
10. Tighten the coupler joint to the specified torque.
11. Connect the backhoe inlet hose to the coupler joint at the specified angle.
12. Pass the backhoe outlet hose through the guide of coupler joint guide.
13. Wrap the sealing tape around the threads of the outlet hose and connect the male coupler with the red cap to the outlet hose.
14. Attach the coupler joint to the connecting plate.

**NOTE :**

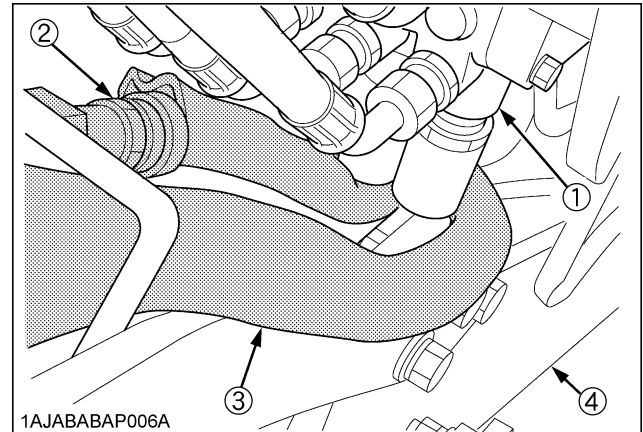
- Take this step after mounting the connection plate (RH) in position.
- The installation position of the coupler joint is different depending on the model. When connecting it, be careful as shown in the figure below.



- (1) Connecting plate RH  
 (2) Cap  
 (3) Sleeve  
 (4) Cord band  
 (5) Female coupler (1/2-14NPTF)  
 Tightening torque: 49 to 58 N·m  
 (5.0 to 5.9 kgf·m, 36 to 43 lbf·ft)  
 (6) Coupler joint  
 (7) Inlet hose (3/4-16)  
 Tightening torque: 36 to 40 N·m  
 (3.6 to 4.1 kgf·m, 26 to 30 lbf·ft)  
 (8) Outlet hose  
 (9) 2 - M8 x 30 flange bolts and nuts  
 Tightening torque: 23.6 to 27.4 N·m  
 (2.4 to 2.8 kgf·m, 17.4 to 20.2 lbf·ft)

[When equipped with the auxiliary control valve]

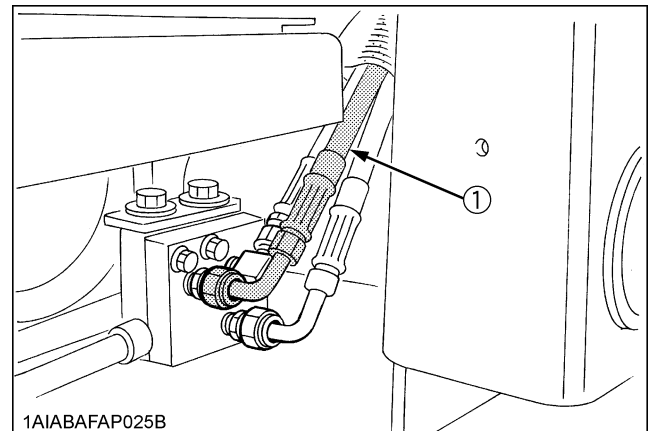
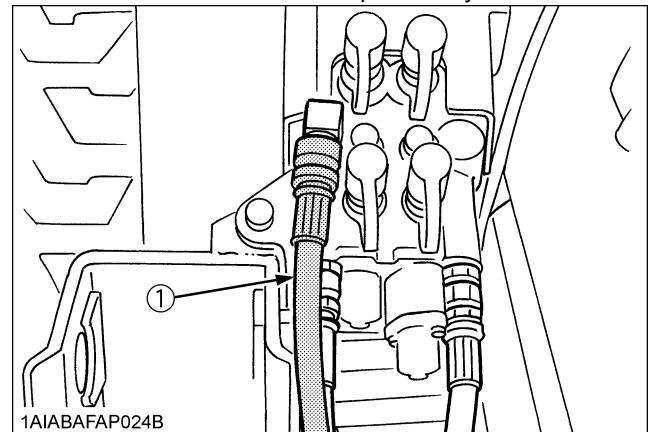
1. Pass the inlet hose inside of the sub frame.
2. Pass the outlet hose outside of the sub frame.



- (1) Auxiliary control valve  
 (2) Inlet hose  
 (3) Outlet hose  
 (4) Sub frame

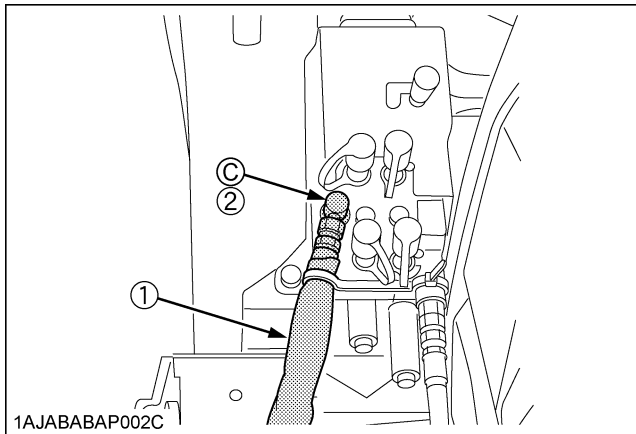
## Hydraulic Line

1. Disconnect the front loader power beyond hose.



- (1) Front loader power beyond hose

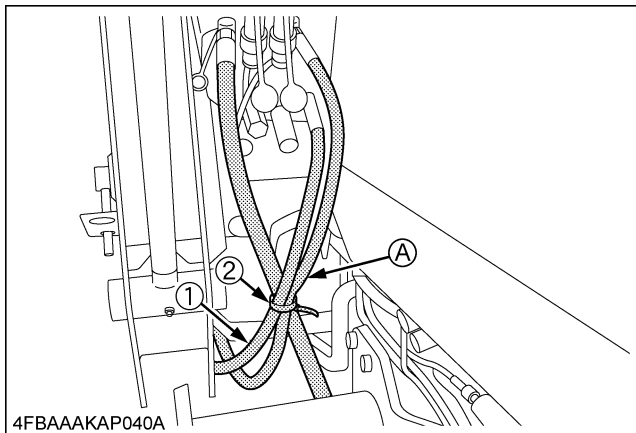
2. Connect the backhoe inlet hose to the power beyond port (c) adapter.  
Route the backhoe inlet hose under the hydraulic block, clamp the three hoses using a plastic band.



- (1) Backhoe inlet hose (3/4-16) (C) Power beyond port  
Tightening torque: 36 to 40 N·m  
(3.6 to 4.1 kgf·m, 26 to 30 lbf·ft)  
(2) Adapter

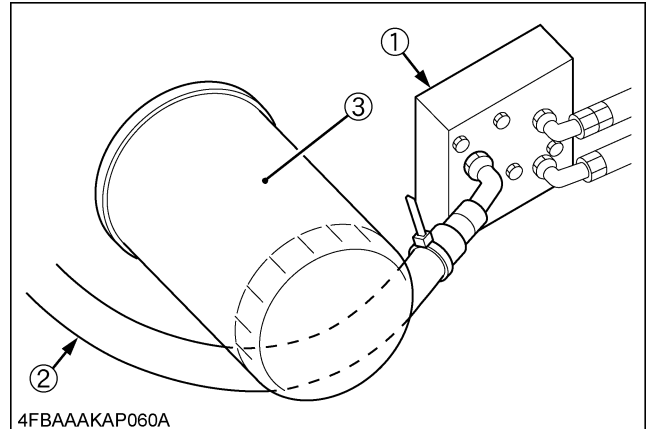
**IMPORTANT :**

- Make sure that the loader hydraulic hose quick coupler, with the red dust plug, can be easily connected without contacting the backhoe inlet hose.



- (1) Hoses (A) Clamp three hoses as shown  
(2) Plastic band

3. Connect the backhoe outlet hose to the hydraulic block.



- (1) Hydraulic block  
(2) Backhoe outlet hose (3/4-16)  
Tightening torque: 36 to 40 N·m  
(3.6 to 4.1 kgf·m, 26 to 30 lbf·ft)  
(3) Filter

**IMPORTANT :**

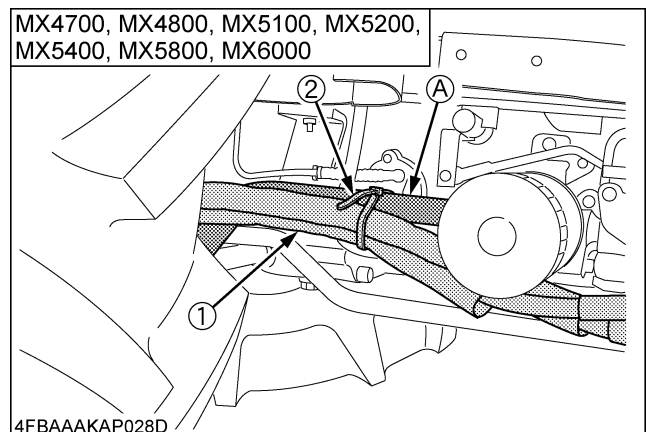
- Route the hose just below the filter as shown in the figure.

**[MX series only]**

4. Clamp the two hoses to the pipe using a plastic band.

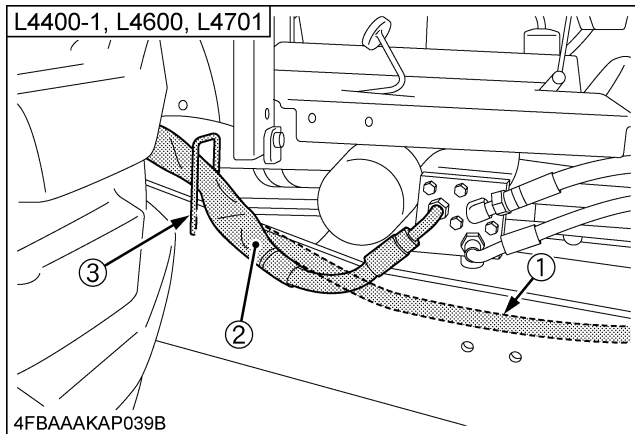
**IMPORTANT :**

- Hoses pre-installed on the control valve assembly are not securely tightened to ease installation of hoses to hydraulic block. Be sure to securely tighten all hose fittings after installing.
- Adjust the hose fittings so the hoses clear the tractor.



- (1) Hoses (A) Clamp onto this pipe.  
(2) Plastic band

5. Pass the two hoses through the guide.

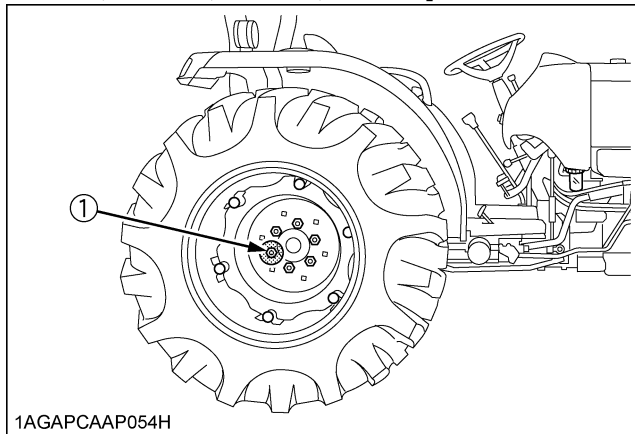


- (1) Inlet hose  
(2) Outlet hose  
(3) Hose guide

#### ◆ Rear wheels

1. [S] Install the right and left rear wheels to the tractor with the bolts and nuts. Tighten the bolts and nuts by the correct tightening torque.

[L4400-1, L4600, L4701, MX4700, MX4800, MX5100, MX5200, MX5400, MX5800, MX6000]



- (1) Tightening torque: 196 to 225 N·m  
(20.0 to 22.9 kgf·m, 144.6 to 166.0 lbf·ft)

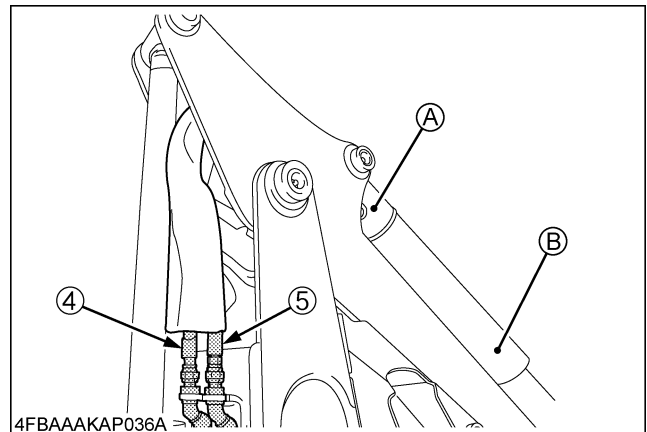
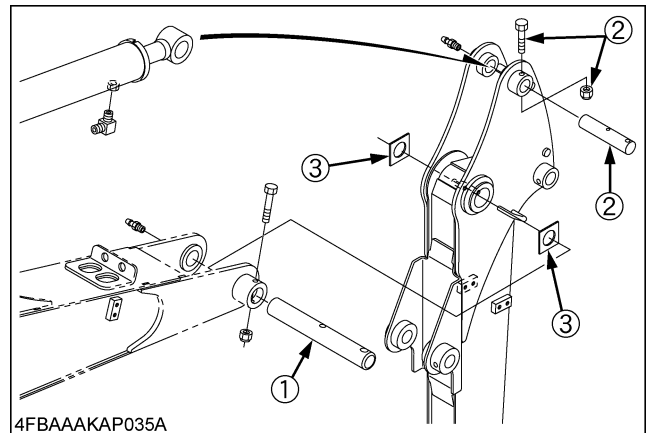
## SETTING UP DIPPERSTICK AND BUCKET

### ■ Dipperstick

1. Install dipperstick assy to the boom using pins, spacers, bolts, nuts.  
Connect hoses to the each port on the boom.

#### IMPORTANT :

- Check the position and the direction of the hose as shown below.



- (1) Pin ( $\phi 38 \times 259$  mm),  
Bolt (M10 x 80), Locking nut (M10)  
(2) Pin ( $\phi 32 \times 156$  mm),  
Hex. bolt (M10 x 65), Locking nut (M10)  
(3) Spacer  
(4) Hose (3/4-16) (Cylinder bottom side)  
(5) Hose (3/4-16) (Cylinder rod side)  
Tightening torque: 36 to 40 N·m  
(3.6 to 4.1 kgf·m, 26 to 30 lbf·ft)
- (A) Cylinder bottom side  
(B) Cylinder rod side

#### NOTE :

- Do not tighten too much a locking nut firmly. The gap between the boss and the locking nut is adjusted in 2 to 3 mm (0.08 to 0.12 in.).
- Tighten up the hose in parallel with the cylinder rod.