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ASSEMBLY INSTRUCTIONS

TO THE DEALER

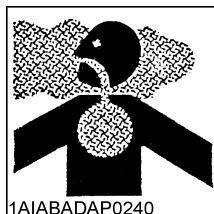
1. This manual contains procedures intended to assist the dealer in unpacking and assembling the product before delivering to the customer.
The customer's purchase is based on confidence in both the product and your store. Observe the procedures in this manual to assemble and adjust equipment for your customer's safety and satisfaction. When fully assembled, check function of each part and feature.
2. The following safety alert symbol mark and indication are found throughout this manual in steps where particular attention is required so as to ensure your safety and to avoid product damage. Observe the instructions in these warnings where indicated.

 DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
IMPORTANT :	Indicates that equipment or property damage could result if instructions are not followed.
NOTE :	Gives helpful information

SAFETY

To prevent accidents, read through the following items before starting work, and always regard safety when working. It is your responsibility to ensure your safety on the job.

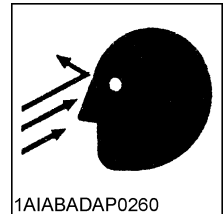
1. Preparations
 - (1) Select a work site which is level, has sufficient space, and is not close to dangerous objects.
 - (2) Avoid poorly ventilated rooms.
Asphyxiation from exhaust fumes is always a possibility that accompanies running an engine.



- (3) Working clothes which may be pinched or caught in the equipment must not be worn. Loose clothing can cause serious injury or death.

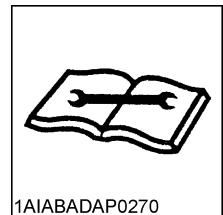


- (4) Always wear a mask and protective goggles during work when dust or flying debris may be thrown by equipment.

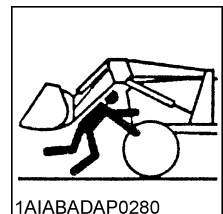


2. Assembly and adjustments

- (1) Before assembling equipment, read the assembly instructions for the product to become familiar with the equipment and procedures.
- (2) Use only adequate and required equipment, tools and instruments (e.g. torque wrench, battery hydrometer and etc.).
- (3) Set the parking brake and block wheels to prevent machine (or tractor) movement.
- (4) Lower the attachment or implement to the ground before assembling or adjusting equipment.



- (5) Before working under suspended or raised equipment, support the equipment or attachment and utilize the valve lock to prevent the machine from falling or moving out of place.



- (6) Keep fire from cigarettes, matches or other ignition sources away from fuel, oil, antifreeze and other flammable materials.



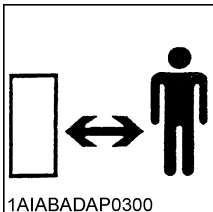
3. After assembly check

- (1) Before operating or test driving the equipment, read and understand the operator's manual.
- (2) Once the equipment is fully assembled, select a safe place for a test run. Prevent onlookers from approaching the equipment.

**DANGER**

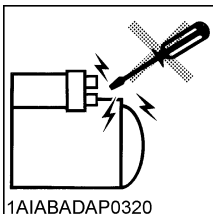
To avoid personal injury or death:

- Do not start engine or operate levers from anywhere other than the seat.

**DANGER**

To avoid personal injury:

- Do not bypass-start the equipment. Short circuit the starter terminal runs the risk that the equipment will start operating or moving unexpectedly.

**UNPACKING AND CHECKING PARTS****■ Unpacking Wooden Crate**

1. Cutting metal bands (if two are banded together). Metal bands hold the two crates together as one. Cut these bands and separate the crates.
2. Unpacking the crates
 - (1) Hook a hoist to the 4 corners of the crate and raise the hoist cable until taut. This serves to prevent the upper part of the crate from striking the loader when cut.
 - (2) Saw the crate as indicated in the figure 1.

IMPORTANT :

- Sawing outside the indicated area may damage the loader or accessory parts.
- Be sure that the crate is free of other obstructions (e.g. nails, staples and etc.).

- (3) Raise the upper part of the crate and remove from the immediate area.
- (4) Remove the remaining slats from the crate. These are indicated by the oblique lines in Figure 1...

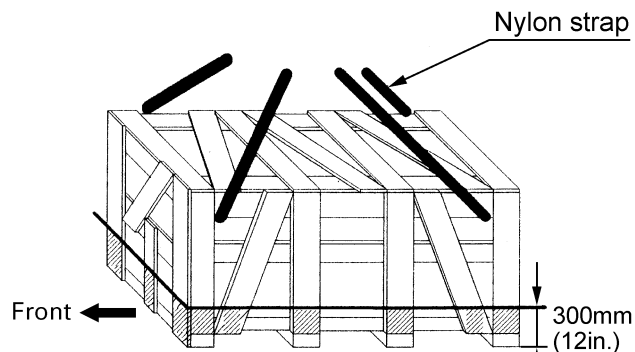
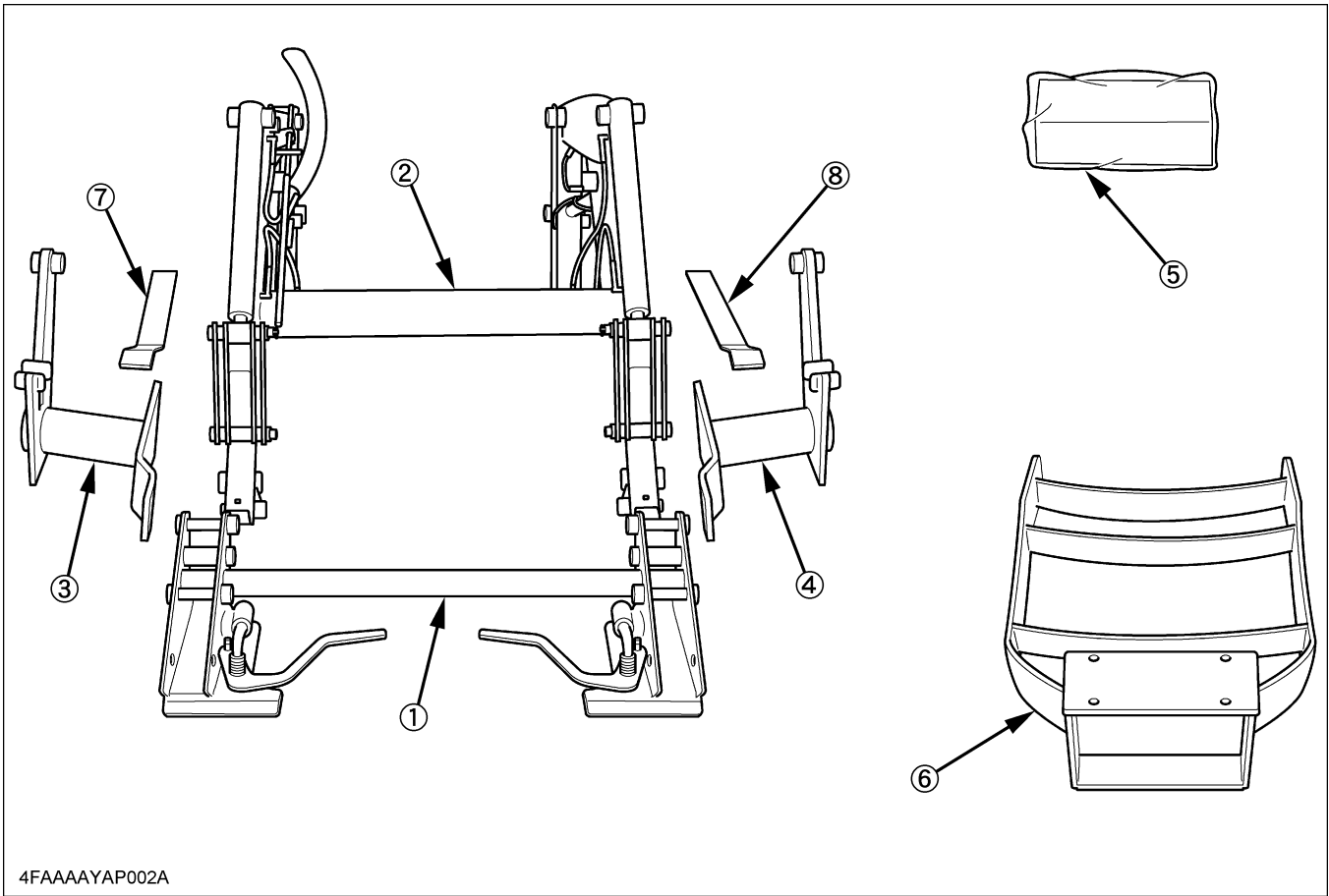


Figure 1 : Cutting area of the crate

1AIABAFAP047A

■ Checking Parts

Remove all loader components. Referring to the illustration, ensure that all components have been included.



- (1) Quick hitch (option)
- (2) Boom assembly
- (3) Main frame LH
- (4) Main frame RH
- (5) Parts box
- (6) Front guard kit
- (7) Sub frame LH
- (8) Sub frame RH

TRACTOR PREPARATION

1. Remove the mid mount mower from the tractor if equipped.
2. Locate the tractor on a firm level surface.
Lower the implement to the ground, set the parking brake and stop the engine.
3. Set front tread as follows.

	Front Tread	
	2WD	4WD
L3240	1310 mm (51.6 in.)	Front axle is not adjustable.

IMPORTANT :

- Setting tread wider than recommended may cause premature failure of front axle components due to excessive stress.
4. For better stability, set the rear tread as follows depending on the requirements of the work being done.

	Rear Tread
L3240 L3540	1200 mm (47.2 in.) or more
L3940 L4240 L4740	1280 mm (50.6 in.) or more
L5040 L5240 L5740	1325 mm (52.2 in.) or more

ASSEMBLY

IMPORTANT :

- Do not tighten any bolts firmly until most components are attached to the tractor.
- Before finally tightening all mounting hardware, start the engine and apply down pressure to the bucket until the loader takes the tractor weight off the front wheels - do not lift the wheels off the ground. Make sure that the mounting pins can be rotated easily.
Torque all bolts and nuts in this position.
- To avoid damage to hoses, adjust all connections to route hoses away from sharp edges.
- Assemble on the surface preferably concrete.

Boom Assembly



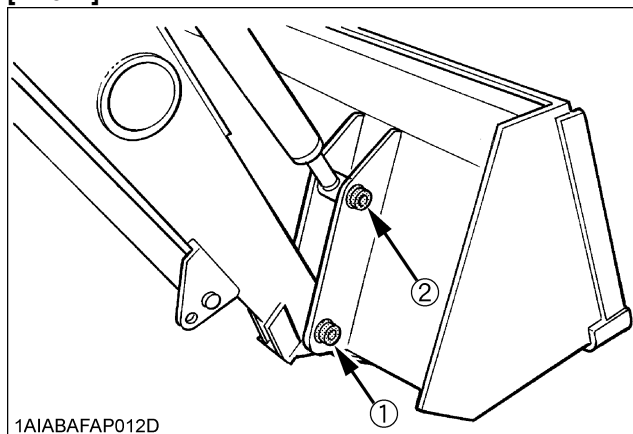
CAUTION

To avoid personal injury:

- Do not operate or mount loader without quick attach or bucket installed to loader. Damage may occur to bucket cylinders without these conditions being set.

1. Attach the bucket to the boom and bucket links as shown.

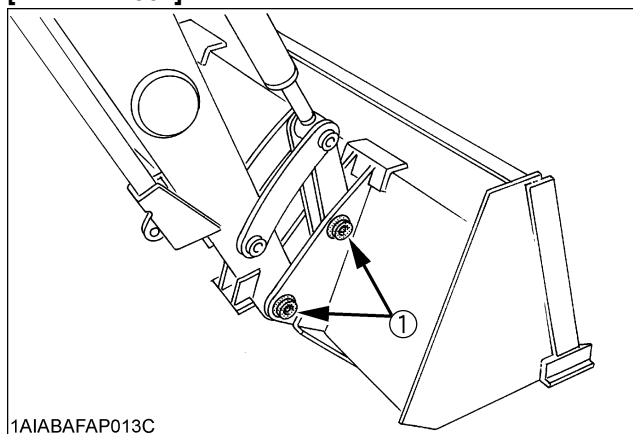
[LA514]



1AIABAFAP012D

- (1) 3-Pin 3
4-M6 x 55 bolts
4-M6 locking nuts
(2) 1-Pin 8 (Bucket cylinder RH)

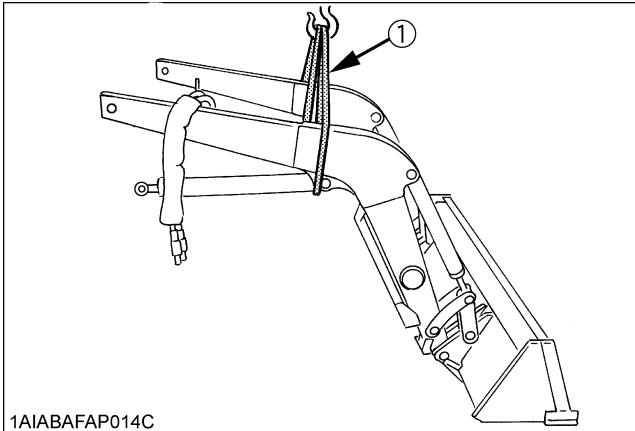
[LA724/LA854]



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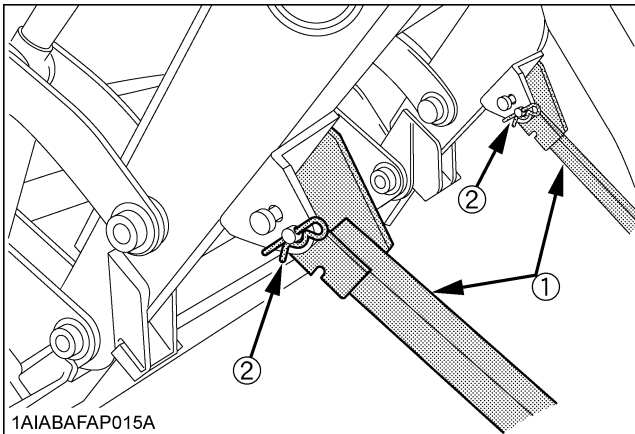
- (1) 4-Pin 3
4-M8 x 60 bolts
4-M8 locking nuts

2. Raise the boom until the stands can be rotated.



(1) Belt sling

3. Remove the spring pins holding the stands to the boom.
4. Rotate the stands until the pin on the stand and hole in the boom are aligned. Then slide the stands outward and insert the spring pin as shown.

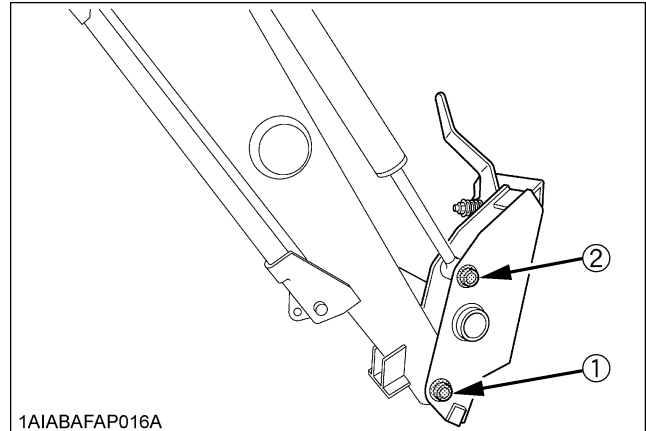


(1) Stand
(2) Spring pin

■ Boom Assembly with Quick Hitch (Option)

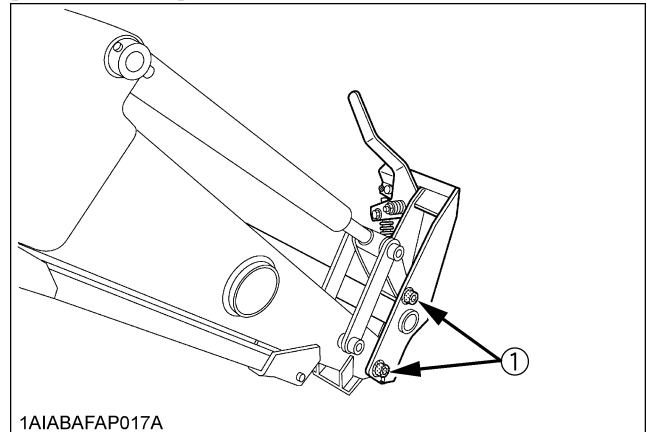
1. Attach the quick hitch to the boom and bucket links as shown.

[LA514]



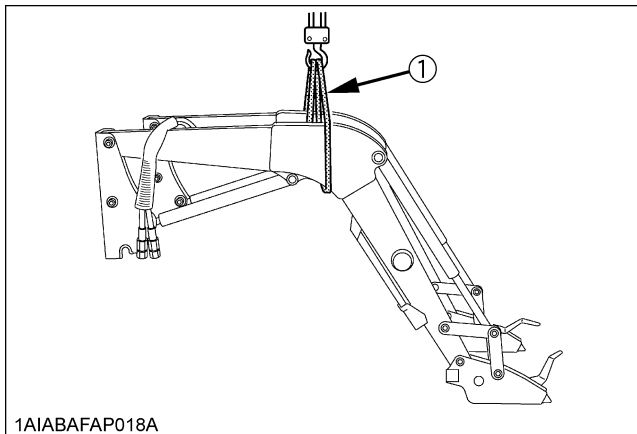
- (1) 3-Pin 3
4-M6 x 55 bolts
4-M6 locking nuts
(2) 1-Pin 8 (Bucket cylinder RH)

[LA724/LA854]



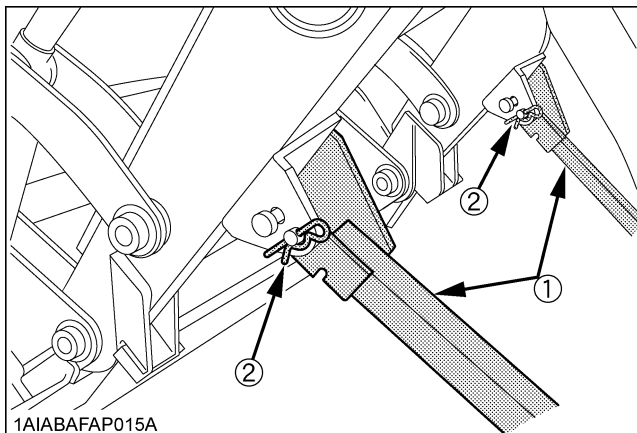
- (1) 4-Pin 3
4-M8 x 60 bolts
4-M8 locking nuts

2. Raise the boom until the stands can be rotated.



(1) Belt sling

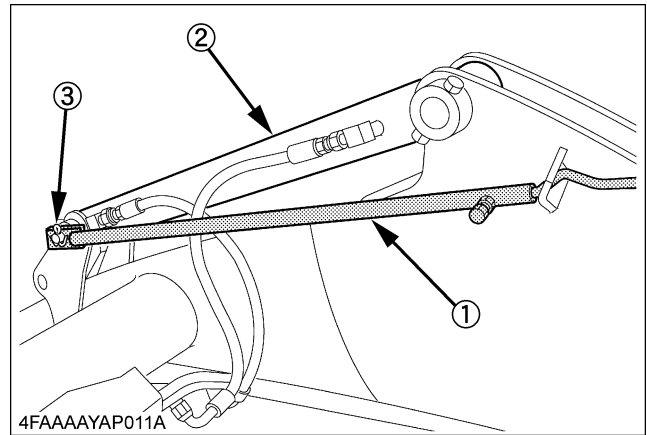
3. Remove the spring pins holding the stands to the boom.
4. Rotate the stands until the pin on the stand and hole in the boom are aligned.
Then slide the stands outward and insert the spring pin as shown.



(1) Stand
(2) Spring pin

■ Level Indicator (LA514)

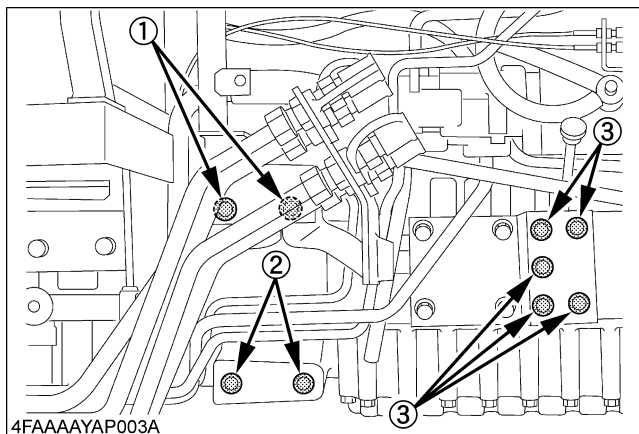
1. Attach the level indicator.



(1) Level indicator
(2) Bucket cylinder RH
(3) Split pin

■ Main Frame

1. Remove plastic plugs and any excess paint from tractor body bolt locations.
2. Attach the main frame LH and RH to the flywheel housing and tractor frame as shown.



[LA514]

- | | |
|------------------------------|------------------------------|
| (1) 2-M16 x 50 bolts (RH) | (2) 4-M16 x 40 bolts |
| 2-M16 x 40 bolts (LH) | 4-M16 spring lock washers |
| 4-M16 spring lock washers | 4-5/8 hardened plain washers |
| 4-5/8 hardened plain washers | |
| (3) 8-M16 x 40 bolts | |
| 8-M16 spring lock washers | |

[LA724]

- | | |
|------------------------------|------------------------------|
| (1) 2-M16 x 55 bolts (RH) | (2) 4-M16 x 45 bolts |
| 2-M16 x 45 bolts (LH) | 4-M16 spring lock washers |
| 4-M16 spring lock washers | 4-5/8 hardened plain washers |
| 4-5/8 hardened plain washers | |
| (3) 8-M16 x 45 bolts | |
| 8-M16 spring lock washers | |

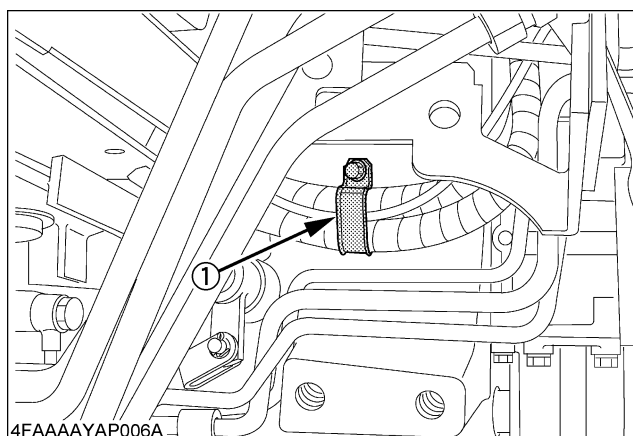
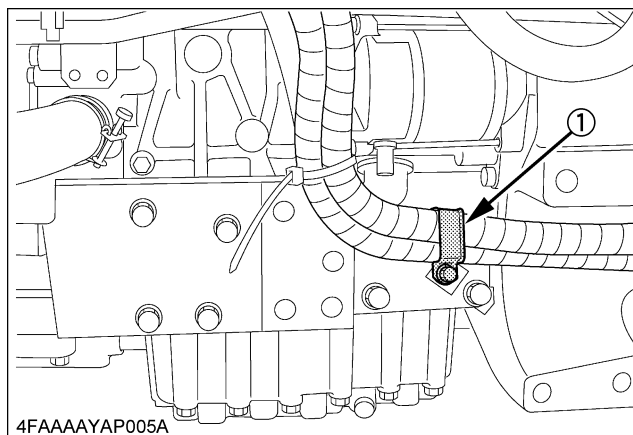
[LA854]

- | | |
|------------------------------|------------------------------|
| (1) 2-M16 x 55 bolts (RH) | (2) 4-M16 x 45 bolts |
| 2-M16 x 45 bolts (LH) | 4-M16 spring lock washers |
| 4-M16 spring lock washers | 4-5/8 hardened plain washers |
| 4-5/8 hardened plain washers | |
| (3) 10-M16 x 45 bolts | |
| 10-M16 spring lock washers | |

Tightening torque : 226 N-m (23 kgf-m, 166 ft-lbs)

[CAB model]

1. Remove the air conditioner hose clamp from the side of the clutch case.

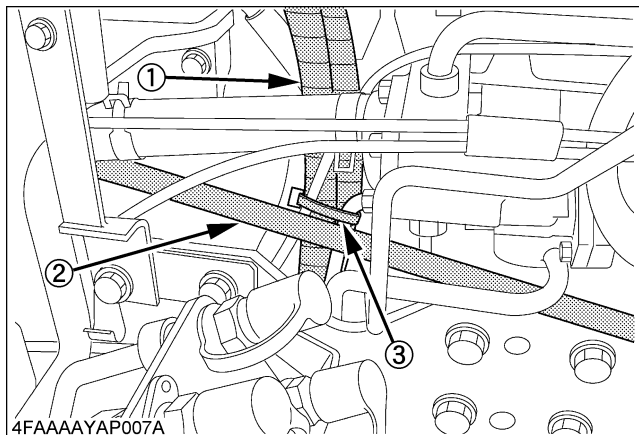


- (1) 2-Hose clamps

2. Install the loader main frame, and using the cord band, secure the air conditioner hoses out of contact with the universal joint.

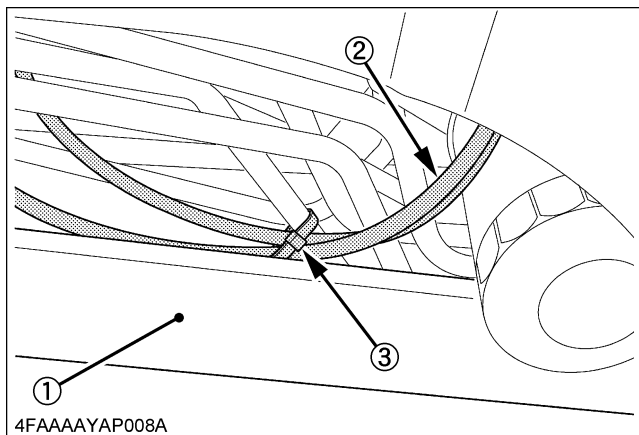
NOTE :

- When installing the main frame, be careful not to get the air conditioner hoses caught. With the frame in place, slightly move the hoses by hand to make sure they are not caught.



- (1) 1-Air conditioner hose
(2) 1-Universal joint
(3) 1-Cord band

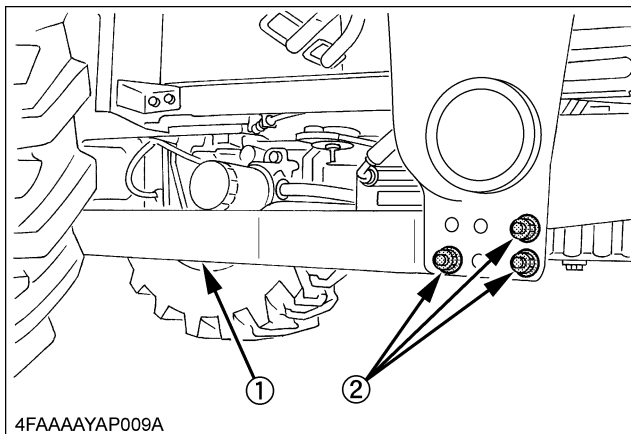
3. Secure the controller cable out of contact with the sub frame, using the cord band.



- (1) 1-Sub frame
(2) 1-Controller cable
(3) 1-Cord band

Sub Frame

1. Attach the sub frame to the main frame as shown.



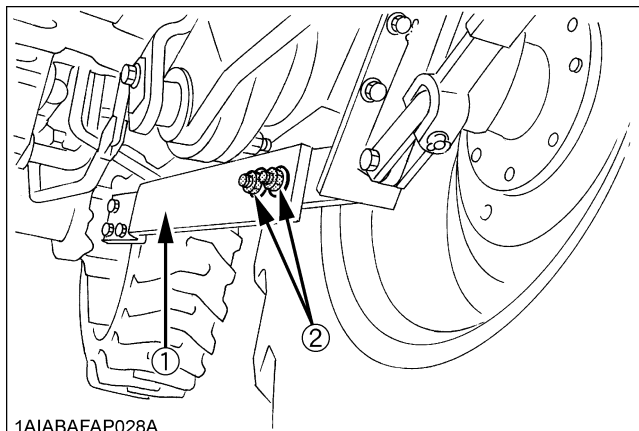
- (1) Sub frame
[LA514]
(2) 6-M16 x 50 bolts
6-M16 Nuts
6-M16 spring lock washers
6-5/8 hardened plain washers
[LA724, LA854]
(2) 6-M16 x 55 bolts
6-M16 Nuts
6-M16 spring lock washers
6-5/8 hardened plain washers

Tightening torque : 226 N-m (23 kgf-m, 166 ft-lbs)

NOTE :

- There are the three holes left at the sub frame. These three holes will be used when installing the backhoe frame.

2. Attach the rear of sub frames to the rear brackets as shown.



(1) Sub frame

[LA514]

(2) 4-M16 x 50 bolts

4-M16 Nuts

4-M16 spring lock washers

4-5/8 hardened plain washers

[LA724, LA854]

(2) 4-M16 x 55 bolts

4-M16 Nuts

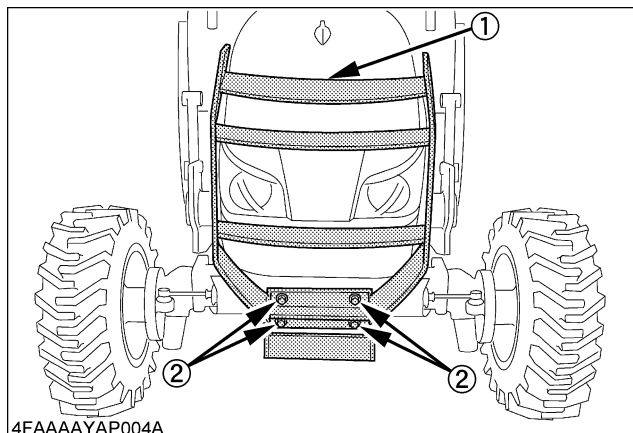
4-M16 spring lock washers

4-5/8 hardened plain washers

Tightening torque : 226 N-m (23 kgf-m, 166 ft-lbs)

■ Front Guard

1. Remove the front bumper from the front axle frame, if equipped.
2. Attach the front guard to the front axle frame.



(1) Front guard

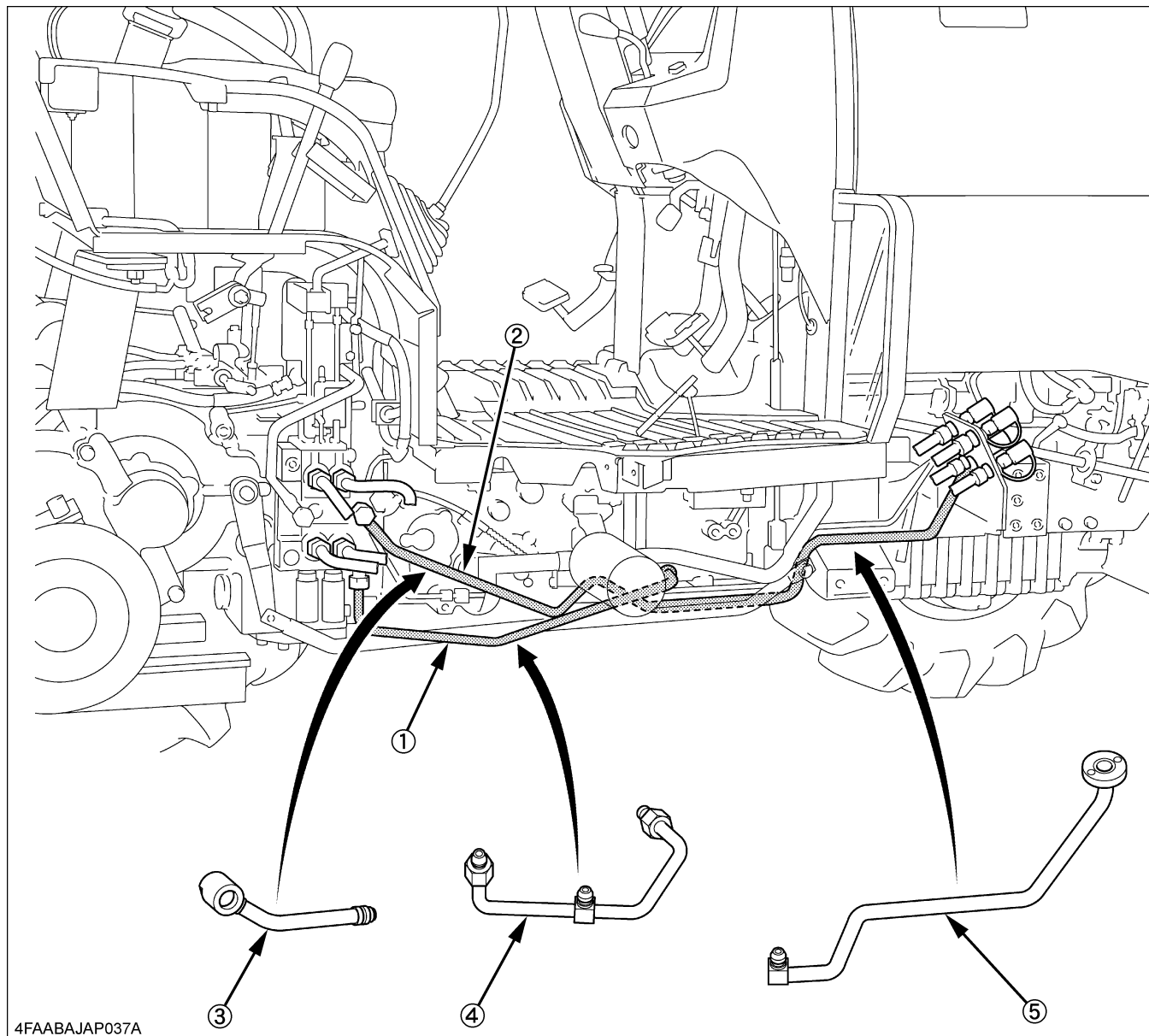
(2) 4-M14 x 40 bolts

4-M14 spring lock washers

3RD FUNCTION (OPTION)

Here are the procedures that are related to assemble the 3rd function kit.

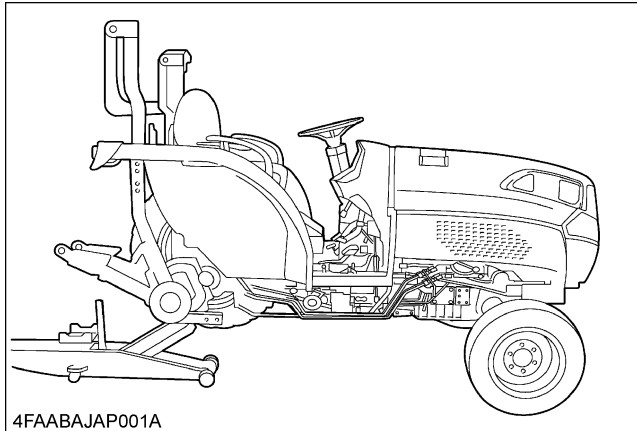
1. Removing the valve tank tube and inlet tube from the tractor.
2. Fitting the accompanying inlet 3rd tube, tank tube and power beyond tube to the tractor.
3. Connecting the tubes and hoses with the hydraulic valve.



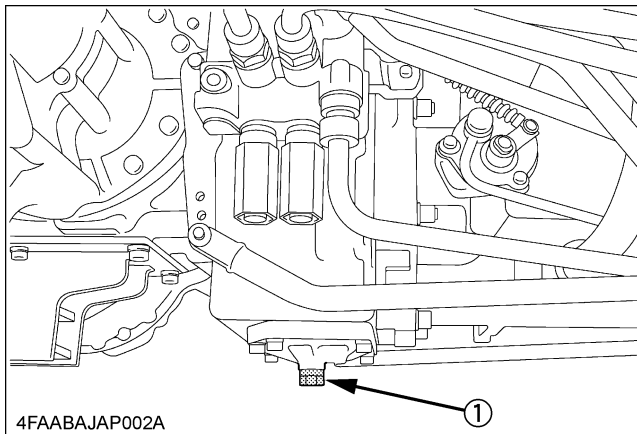
- (1) Valve tank tube
- (2) Inlet tube
- (3) Power beyond tube
- (4) Tank tube
- (5) Inlet 3rd tube

■ Inlet Tube Disassembly

1. Remove the rear tire RH and fender RH. Remove also the front loader main frame and sub frame, the backhoe frame and other members, if attached in place.

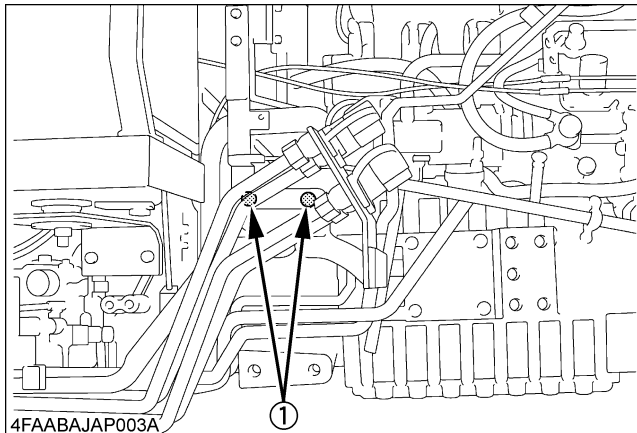


2. Drain the oil completely from the drain plug.



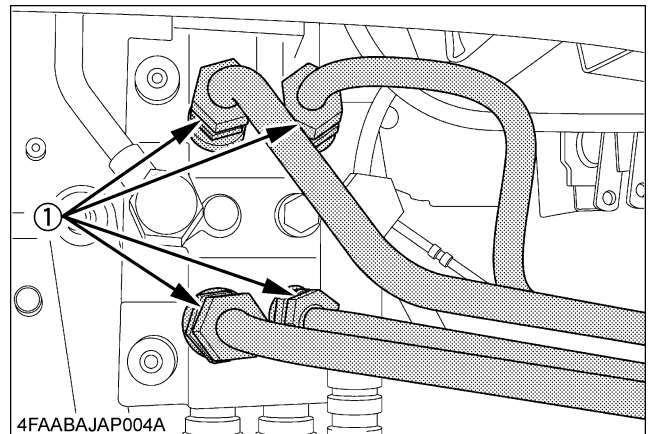
(1) Drain plug

3. Remove the coupler stay mounting bolts.



(1) 2-M16 bolts

4. Loosen the valve tubes.

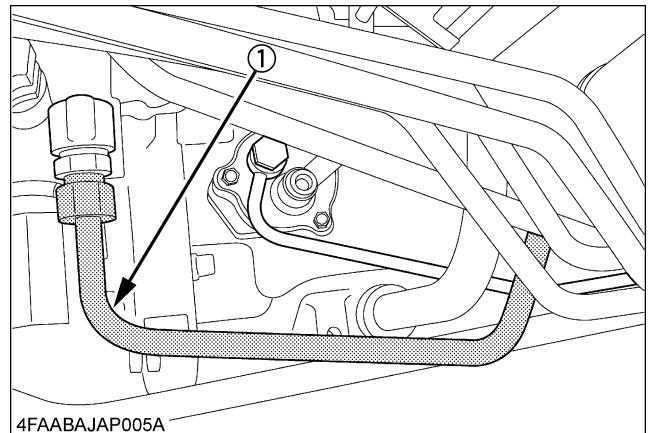


(1) 4-Valve tubes

5. Disconnect the valve tank tube.

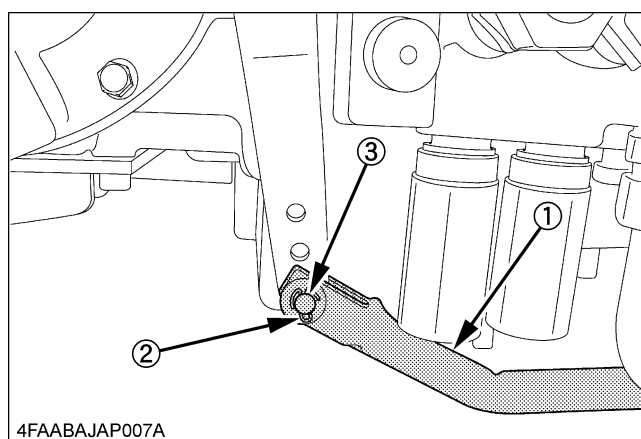
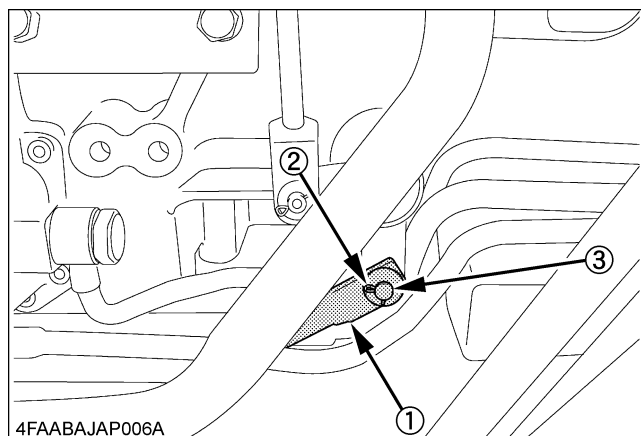
NOTE :

- Be careful not to lose the copper packings when disconnecting the tractor hydraulic tubes.



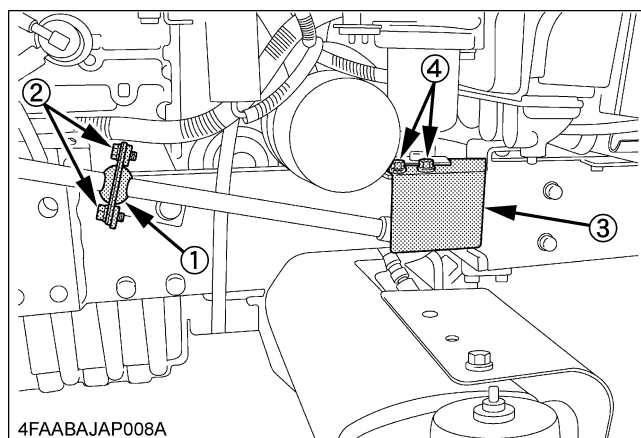
(1) 1-Valve tank tube

6. Remove the brake rod RH.



- (1) 1-Brake rod RH
- (2) 2-Split pins
- (3) 2-Joint pins

7. Remove the bearing flange and joint cover.

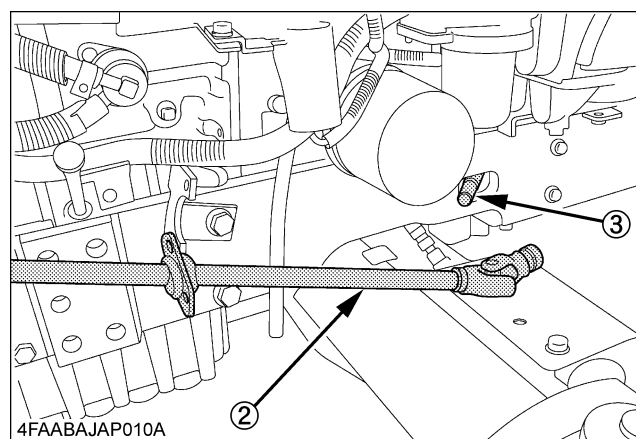
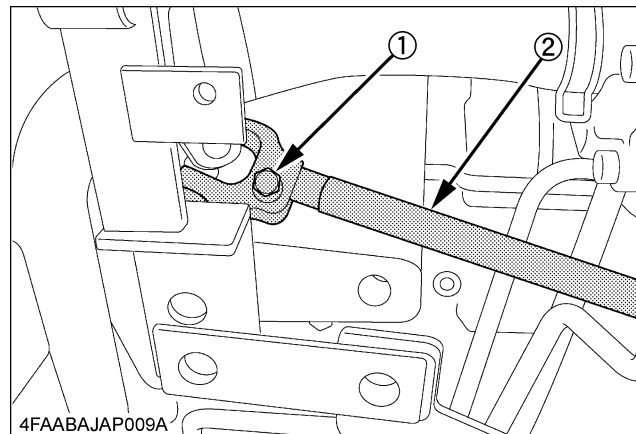


- (1) 1-Bearing flange
- (2) 2-M8 x 16 bolts
- (3) 1-Joint cover
- (4) 2-M8 x 12 bolts

8. Remove the bolt and draw out the universal joint from the joint shaft.

NOTE :

- Pull the universal joint out of the joint shaft. Temporarily reapply the bolt in its original position.

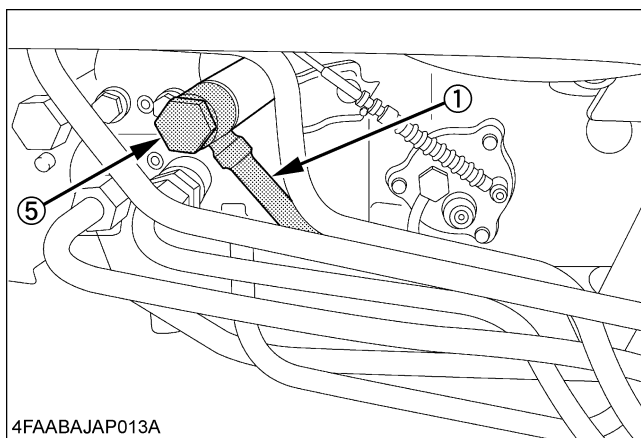
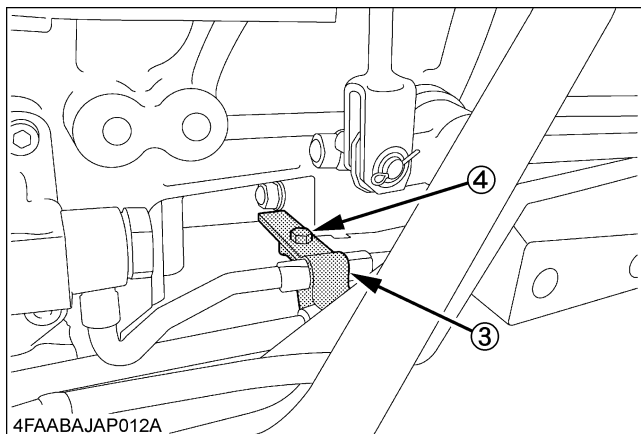
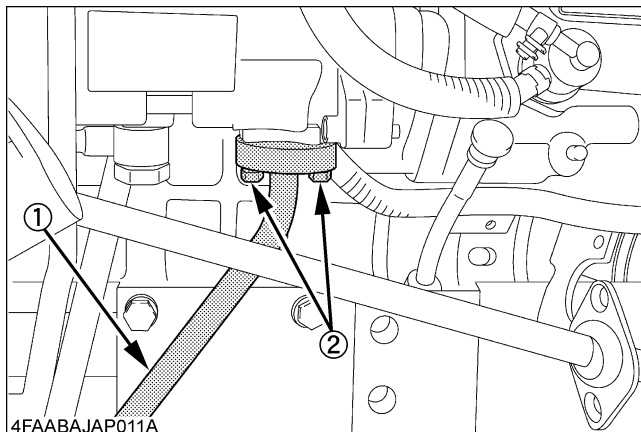


- (1) 1-M8 x 20 bolt
- (2) 1-Universal joint
- (3) 1-Joint shaft

9. Disconnect the inlet tube.

NOTE :

- O-ring will be used again. Be sure to handle it with care and not to lose it.



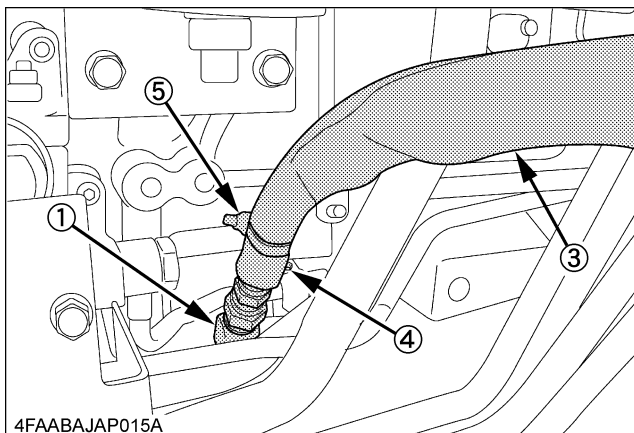
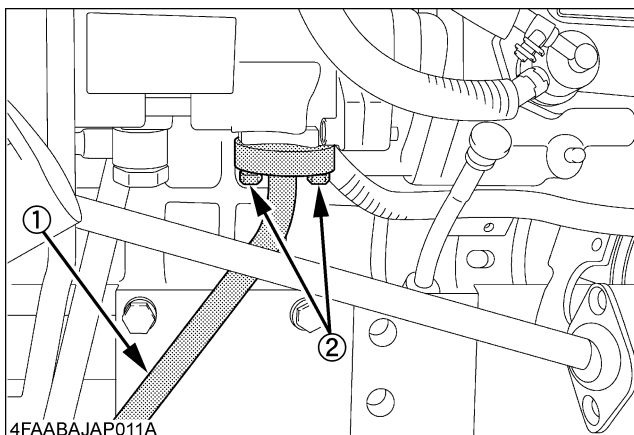
- (1) 1-Inlet tube
- (2) 2-M8 bolts
- (3) 1-Metal fitting
- (4) 1-M8 bolt
- (5) 1- Plug bolt

■ Inlet 3rd Tube Assembly

1. Connect the inlet 3rd tube and inlet hose.
Temporarily connect the inlet hose. Do not tighten it up.

NOTE :

- (1) Be sure to put the O-ring to the inlet 3rd tube.
- (2) Be sure to put the rubber in between the inlet 3rd tube and the metal fitting.



- (1) 1-Inlet 3rd tube
- (2) 2-M8 bolts

Tightening torque : 23.6 to 27.4 N-m
(2.4 to 2.8 kgf-m, 17.4 to 20.2 ft-lbs)

- (3) 1-Inlet hose
- (4) 1-Metal fitting
- (5) 1-M8 bolt

IMPORTANT :

- Tighten the bolts to their respective specified torques.

2. Connect the tank tube and tank hose.

NOTE :

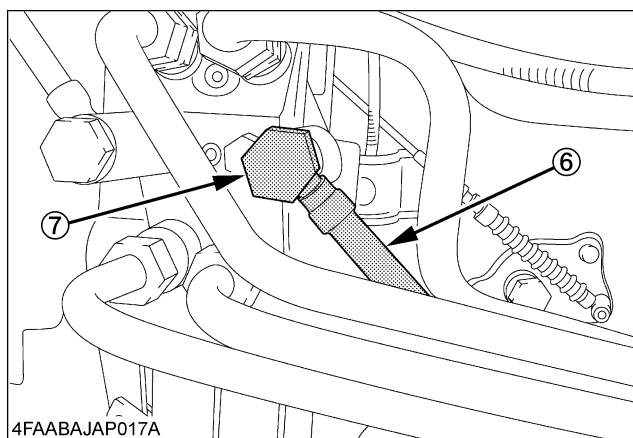
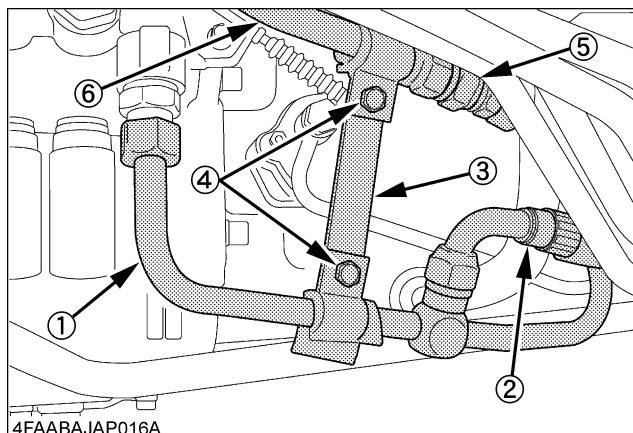
- Orient the tank hose toward the tractor front, as shown below. Make sure the hose is out of contact with nearby tubes and others parts.

3. Temporarily connect the power beyond tube and power beyond hose in their respective positions.
4. Attach the metal fitting and secure the tank tube and power beyond tube.

NOTE :

- With the power beyond tube and tank tube temporarily connected and secured with the metal fitting, make sure they are out of contact with nearby tubes and others parts. Then tighten up the metal fitting with bolts.

5. Tighten the power beyond tube and power beyond hose.



(1) 1-Tank tube

Tightening torque : 47.0 to 54.0 N-m
(4.8 to 5.5 kgf-m, 34.7 to 39.8 ft-lbs)

(2) 1-Tank hose

Tightening torque : 43.0 to 50.0 N-m
(4.4 to 5.1 kgf-m, 31.7 to 36.9 ft-lbs)

(3) 1-Metal fitting

(4) 2-M8 bolts

Tightening torque : 23.6 to 27.4 N-m
(2.4 to 2.8 kgf-m, 17.4 to 20.2 ft-lbs)

(5) 1-Power beyond hose

Tightening torque : 43.0 to 50.0 N-m
(4.4 to 5.1 kgf-m, 31.7 to 36.9 ft-lbs)

(6) 1-Power beyond tube

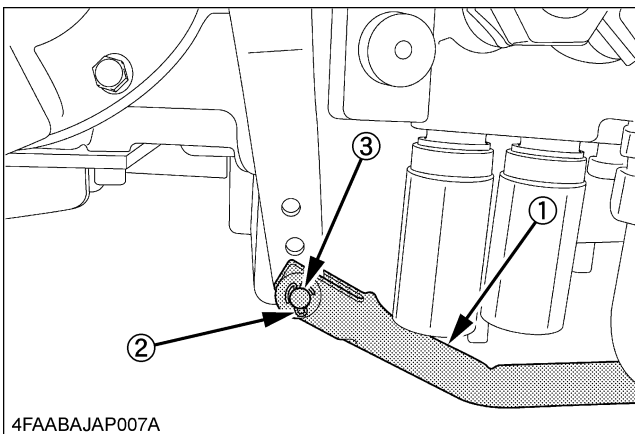
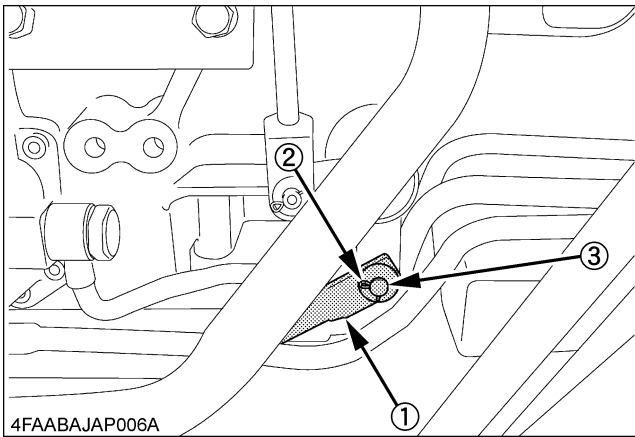
(7) 1-Plug bolt

Tightening torque : 48.8 to 55.2 N-m
(5.0 to 5.6 kgf-m, 36.0 to 40.7 ft-lbs)

6. Attach the brake rod RH.

IMPORTANT :

- Split the split pins on both sides as shown below.

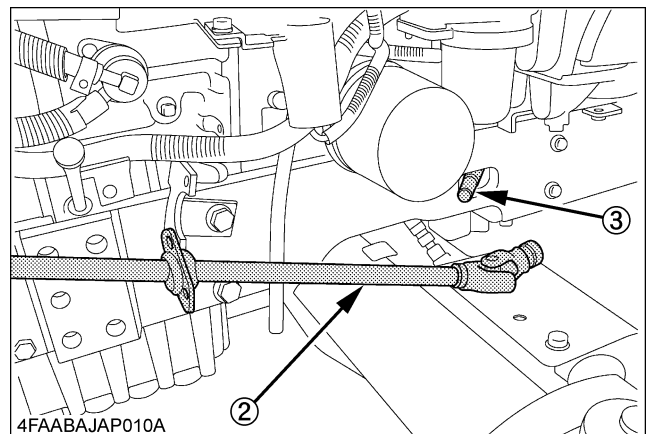
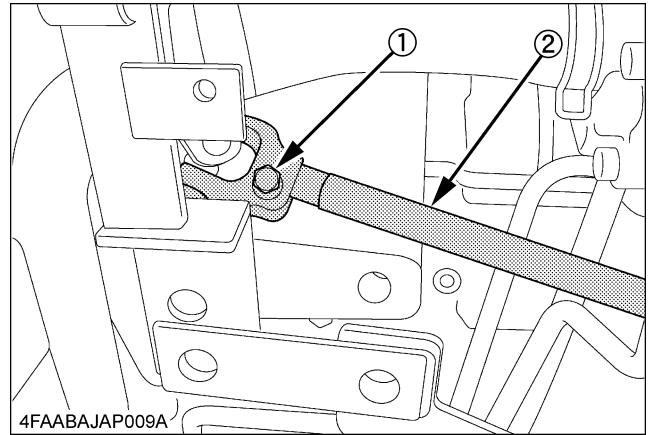


- (1) 1-Brake rod RH
(2) 2-Split pins
(3) 2-Joint pins

IMPORTANT :

- Tighten the bolts to their respective specified torques.

7. Remove the temporarily applied bolt. Fit the universal joint into the joint shaft. Temporarily reapply the bolt back in position.

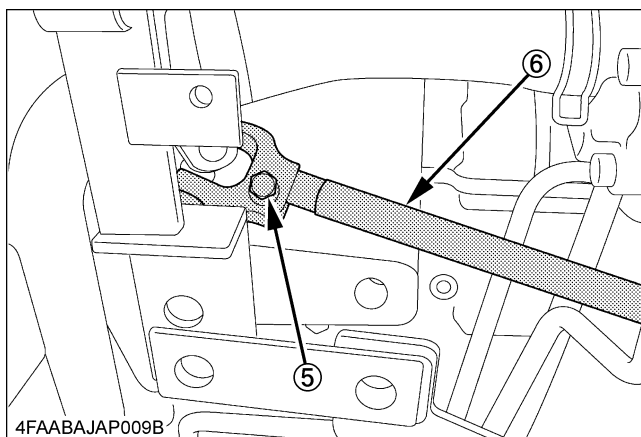
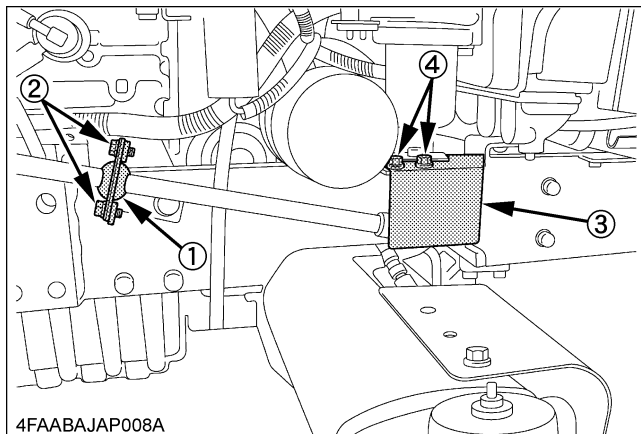


- (1) 1-M8 x 20 bolt
(2) 1-Universal joint
(3) 1-Joint shaft

8. Attach the bearing flange and joint cover and tighten them with bolts.

NOTE :

- Before tightening the bolts, make sure the joint is out of contact with nearby parts.



- (1) 1-Bearing flange
(2) 2-M8 x 16 bolts

Tightening torque : 23.5 to 27.5 N-m
(2.4 to 2.8 kgf-m, 17.3 to 20.3 ft-lbs)

- (3) 1-Joint cover
(4) 2-M8 x 12 bolts

Tightening torque : 23.5 to 27.5 N-m
(2.4 to 2.8 kgf-m, 17.3 to 20.3 ft-lbs)

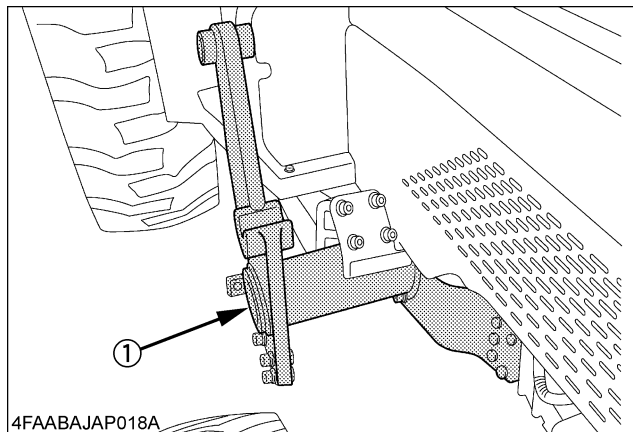
- (5) 1-M8 x 20 bolt
(6) 1-Universal joint

Tightening torque : 23.5 to 27.5 N-m
(2.4 to 2.8 kgf-m, 17.3 to 20.3 ft-lbs)

9. Attach the front loader and main frame RH.

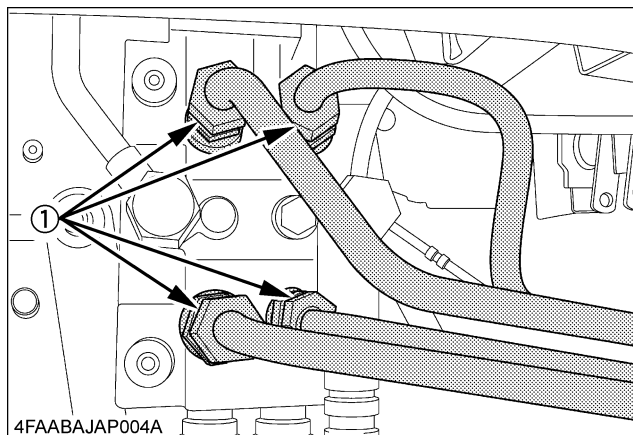
NOTE :

- (1) Keep all the bolts temporarily tight.
(2) See "Main Frame" section for setting up.



- (1) 1-Main frame RH

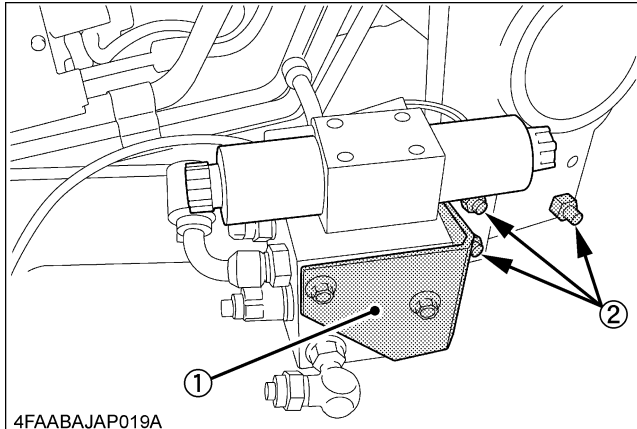
10. Tighten the valve tubes.



- (1) 4-Valve tubes

Tightening torque : 47.0 to 54.0 N-m
(4.8 to 5.5 kgf-m, 34.7 to 39.8 ft-lbs)

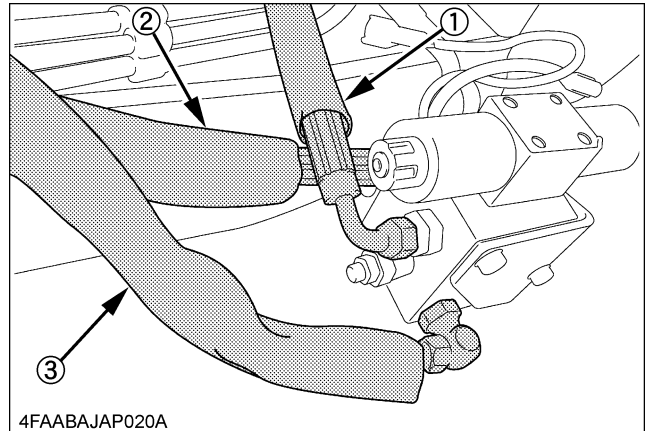
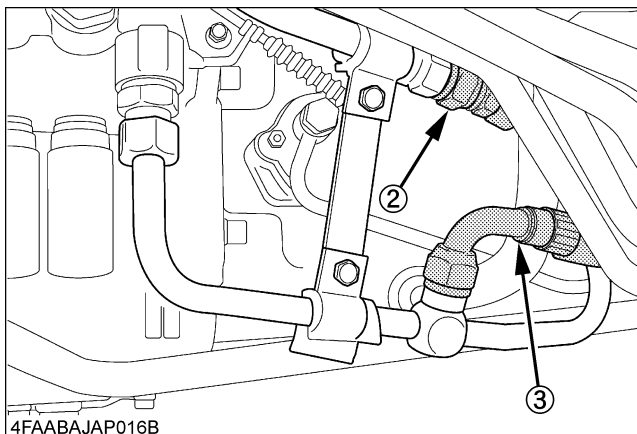
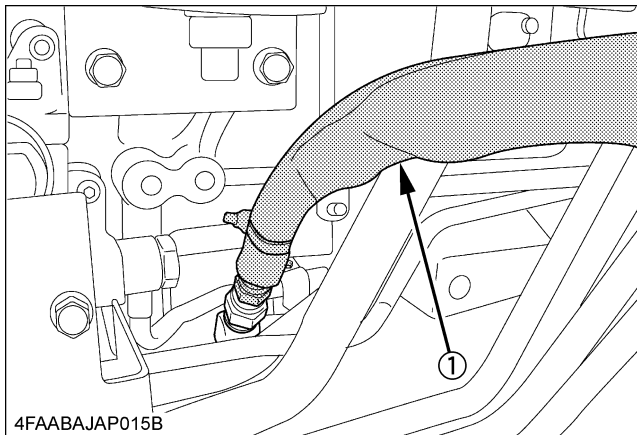
11. Attach 3rd function assembly to the frond loader and sub frame RH.



- (1) 1-3rd function assembly
 (2) 3-M16 bolts
 3-M16 spring lock washers
 3-5/8 hardened plain washers
 3-M16 nuts

Tightening torque : 225 N-m (22.9 kgf-m, 166 ft-lbs)

12. Connect hoses to the 3rd function assembly.



- (1) 1-Inlet hose
 (2) 1-Power beyond hose
 (3) 1-Tank hose

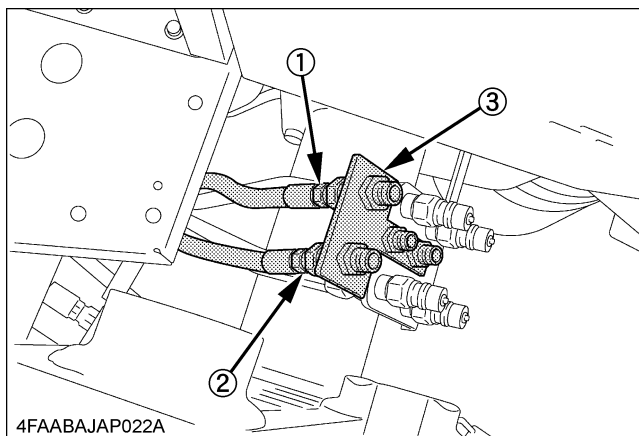
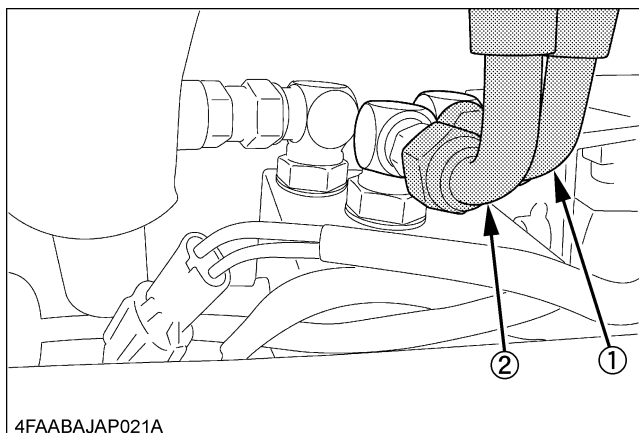
Tightening torque : 35.0 to 41.0 N-m

(3.6 to 4.2 kgf-m, 25.8 to 30.2 ft-lbs)

IMPORTANT :

- Tighten the bolts to their respective specified torques.

13. Install the coupler stay and connect the hydraulic hose A and 3rd function assembly to the coupler stay.



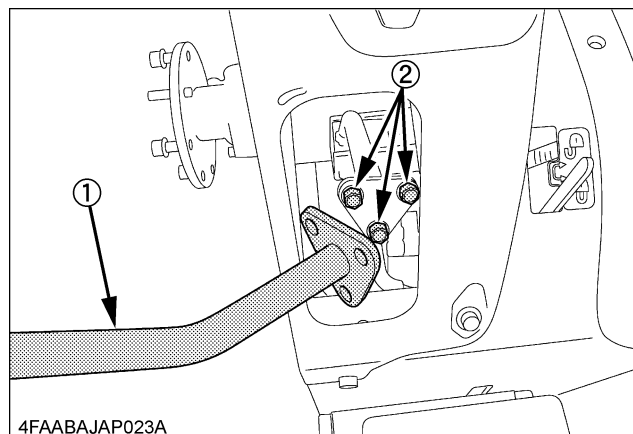
- (1) 1-Hydraulic hose A
(2) 1-Hydraulic hose A

Tightening torque : 35.0 to 41.0 N-m
(3.6 to 4.2 kgf-m, 25.8 to 30.2 ft-lbs)

- (3) 1-Coupler stay

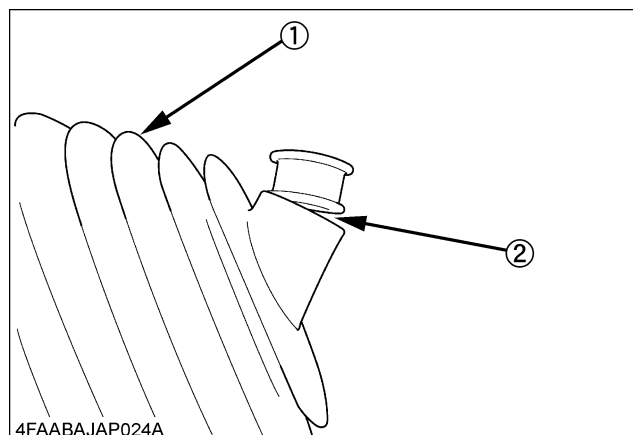
■ 3rd Function Lever Section (ROPS Model)

1. Remove the original lever.



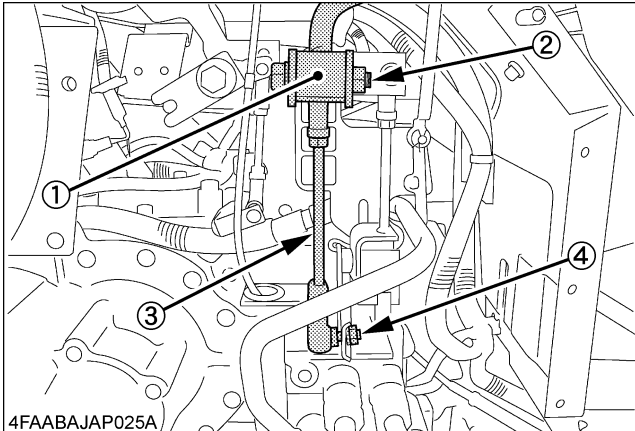
- (1) 1-Original lever
(2) 3-M18 bolts

2. Detach the grip and lever boot from the original lever.
3. Cut the detached lever boot as shown below.



- (1) 1-Lever boot
(2) Line for cutting

4. Remove the bolt and nut, and then take out the lever assembly.



- (1) 1-Lever assembly
(2) 1-Bolt
1-Nut
(3) 1-Rod
(4) 1-Nut

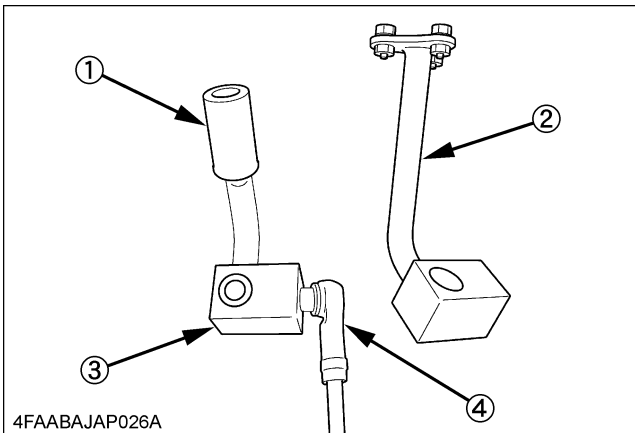
IMPORTANT :

- Tighten the bolts to their respective specified torques.

5. Remove the sleeve and rod from the lever assembly and fit them to the control lever 2.

IMPORTANT :

- (1) Make sure to put the sleeve to the control lever 2.
(2) Apply Loctite 271 or equivalent in fitting the rod into position.

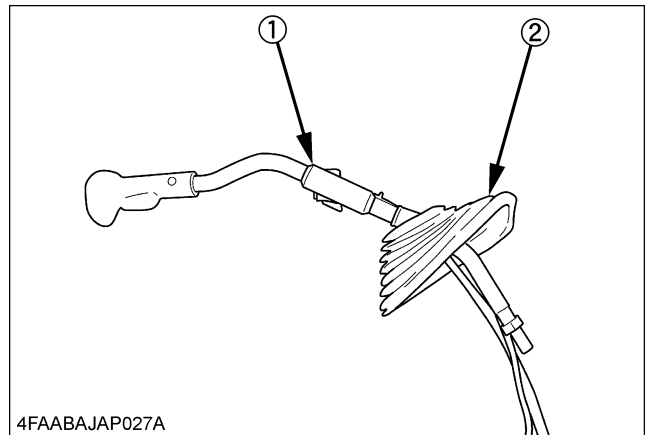


- (1) 1-Control lever 2
(2) 1-Lever assembly
(3) 1-Sleeve
(4) 1-Rod

6. Attach the lever boot to the control lever assembly.

IMPORTANT :

- Make sure not to get the lever harness twisted.

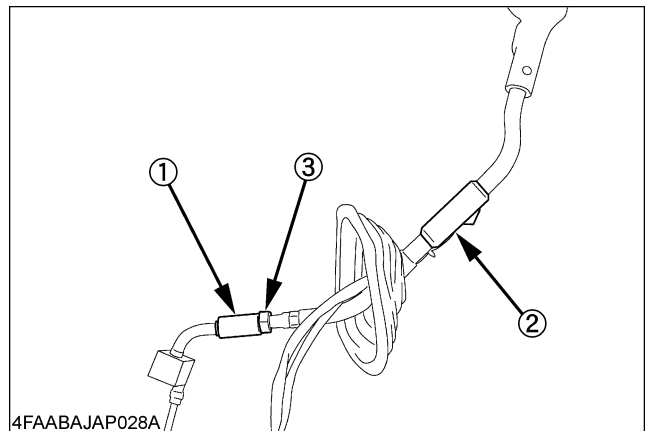


- (1) 1-Control lever assembly
(2) 1-Lever boot

7. Temporarily attach the control lever 2 to the control lever assembly.

IMPORTANT :

- (1) Screw in the control lever assembly as deep as possible.
(2) Do not yet get the nut locked.
(3) Apply Loctite 271 or equivalent in fitting the rod into position.

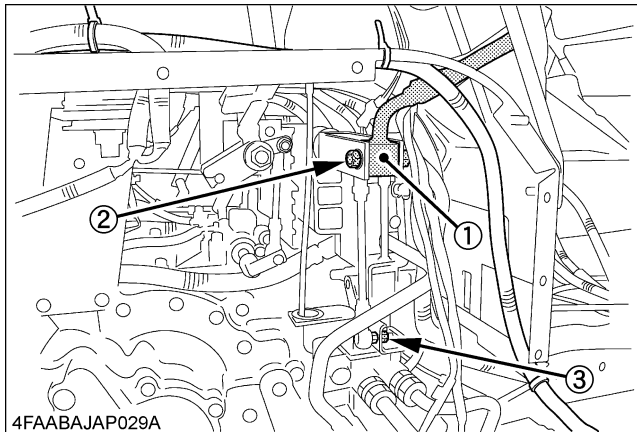


- (1) 1-Control lever 2
(2) 1-Control lever assembly
(3) 1-Nut

8. Install the 3rd function lever assembly.

IMPORTANT :

- Apply Loctite 271 or equivalent in fitting the rod into position.

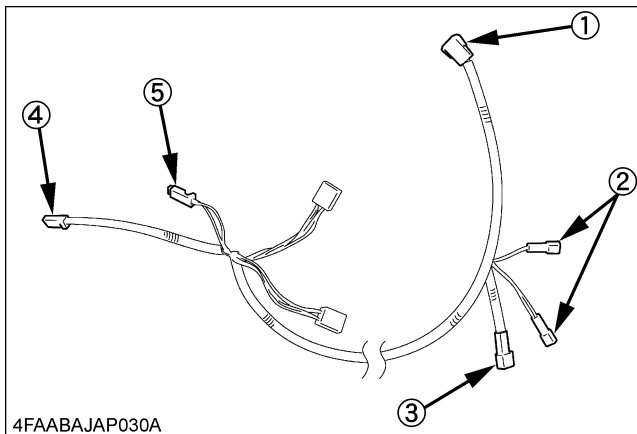


- (1) 1-3rd function lever assembly
(2) 1-Bolt
1-Nut
(3) 1-Nut

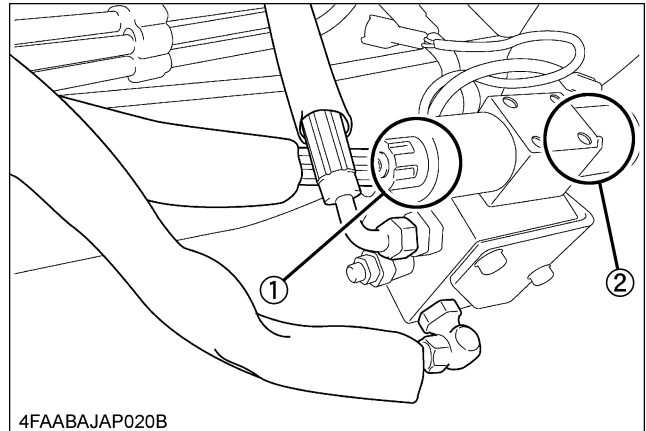
◆ **Wire Harness**

IMPORTANT :

- Connect the wire harness couplers of the 3rd function control lever to their respective same-color couplers.

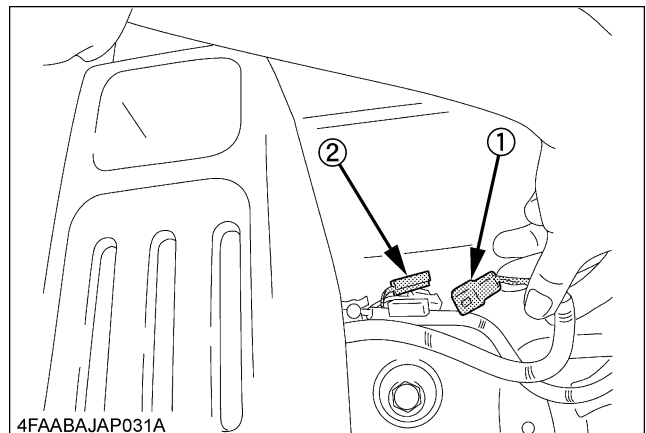


- (1) To tractor harness
(2) To 3rd function control lever
(3) To ON/OFF switch
(4) To solenoid valve harness-1
(5) To solenoid valve harness-2



- (1) Solenoid valve harness-1
(2) Solenoid valve harness-2

9. Connect the 3rd function harness with tractor harness.

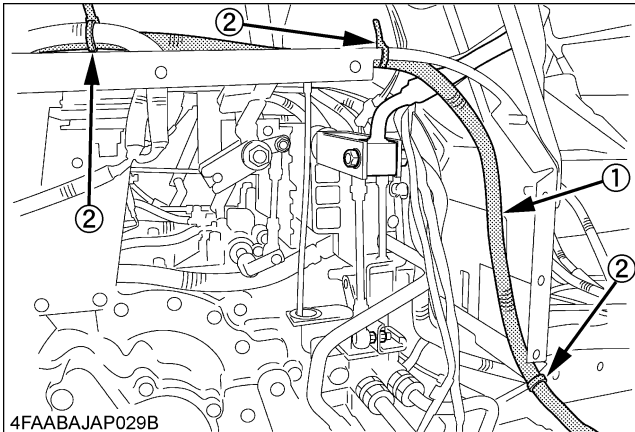


- (1) 3rd function harness
(2) Tractor harness

10. Pass the 3rd function harness through the lever console. Connect the 3rd function control lever and the ON/OFF switch.

IMPORTANT :

- (1) Using the cord band, secure the 3rd function harness and the tractor harness onto the floor sheet or the like.
- (2) Move the control lever to make sure it does not catch or drag the harnesses.

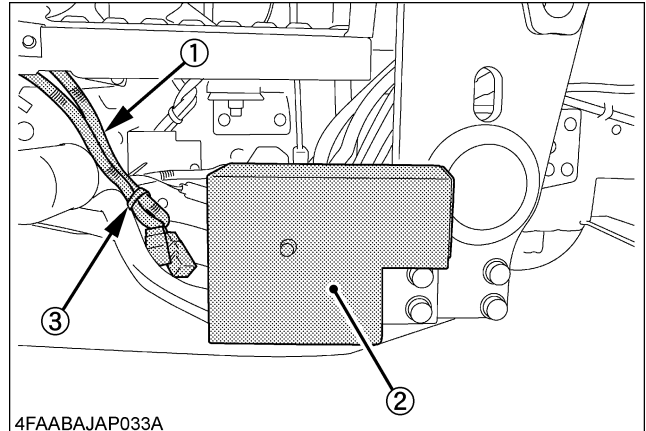


- (1) 1-3rd function harness
- (2) 3-Cord bands

IMPORTANT :

- Tighten the bolts to their respective specified torques.

11. Connect the harness to the solenoid valve harness and attach the cover.



- (1) 3rd function harness
- (2) Solenoid valve cover
- (3) Tie strap

12. Attach the tractor fender RH.

NOTE :

- With the fender in place, move the lever to make sure it is out of contact with the fender and other parts. Then get the nut locked.

13. Attach the rear tire RH.

M16 Bolts, Nuts

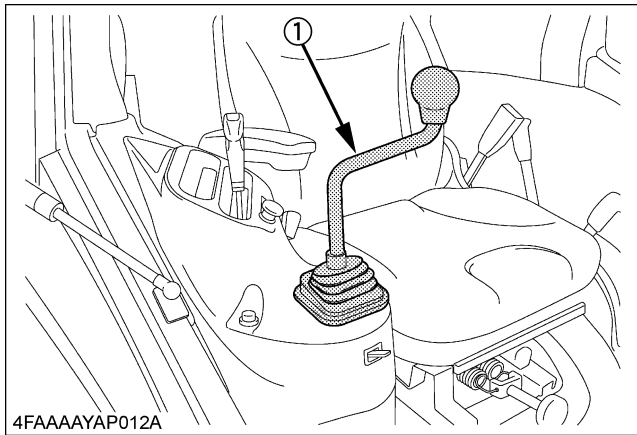
Tightening torque : 196 to 225 N-m

(20.0 to 23.0 kgf-m, 145 to 166 ft-lbs)

14. Apply rubber type bond to the boot and attach the boot to the lever guide.

■3rd Function Lever Section (CAB Model)

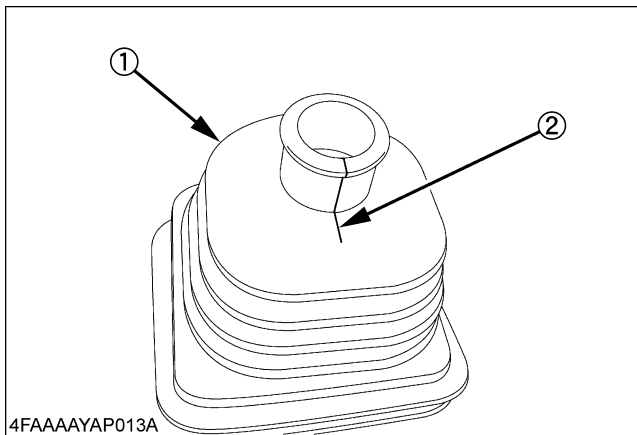
1. Remove the original lever.



(1) 1-Original lever

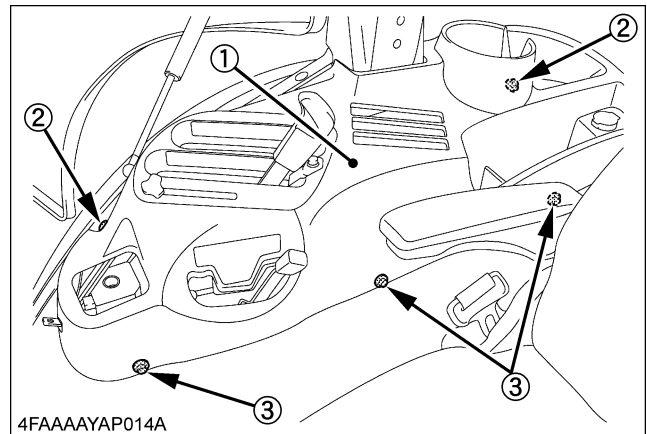
2. Detach the lever boot from the original lever.

3. Cut the detached lever boot as shown below.



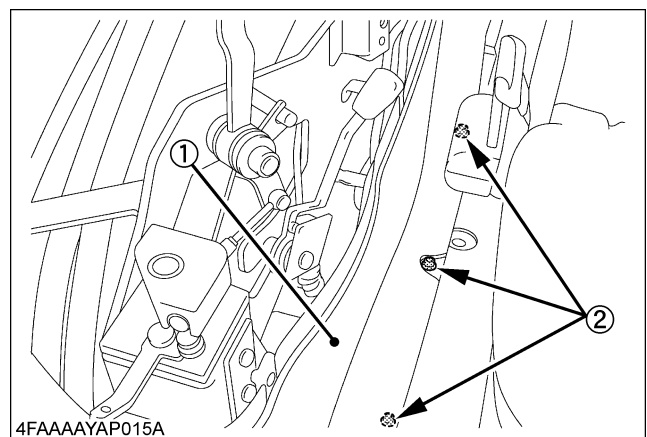
(1) 1-Lever boot
(2) Line for cutting

4. Detach the upper console.



(1) 1-Upper console
(2) 2-M8 bolts
(3) 3-M6 bolts

5. Detach the lower console.



(1) 1-Lower console
(2) 3-M8 bolts

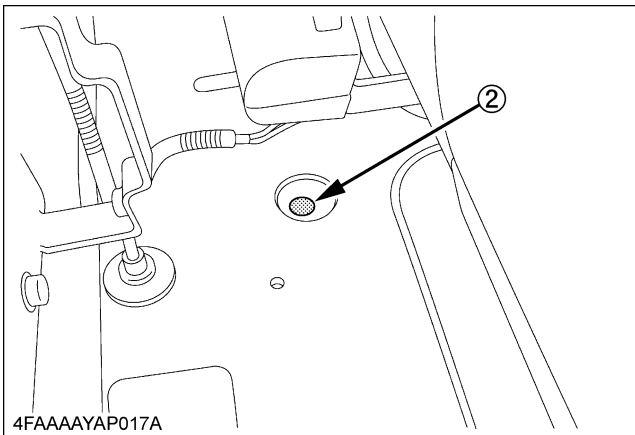
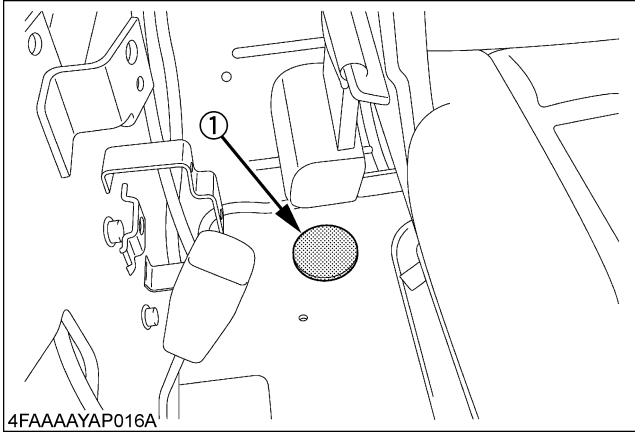
IMPORTANT :

- Tighten the bolts to their respective specified torques.

6. Remove the rubber cap from the hole under the seat. Make the 18 mm diameter hole.

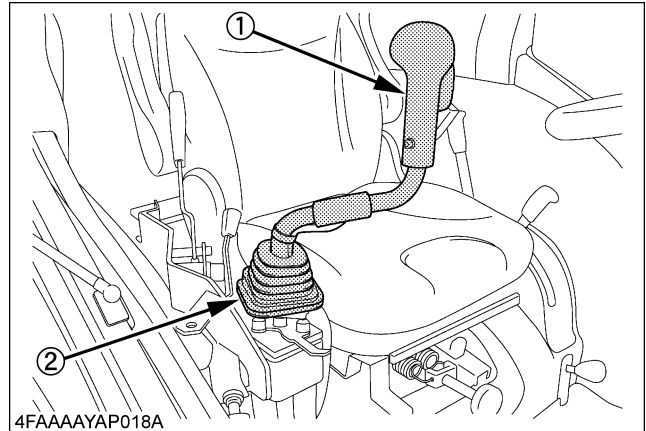
NOTE :

- Just scrape the hole large enough to pass the harness, if desired.



- (1) 1-Rubber cap
(2) 1-16 mm diameter hole

7. Attach the detached lever boot to the control lever assembly (CAB) and install it to the tractor.

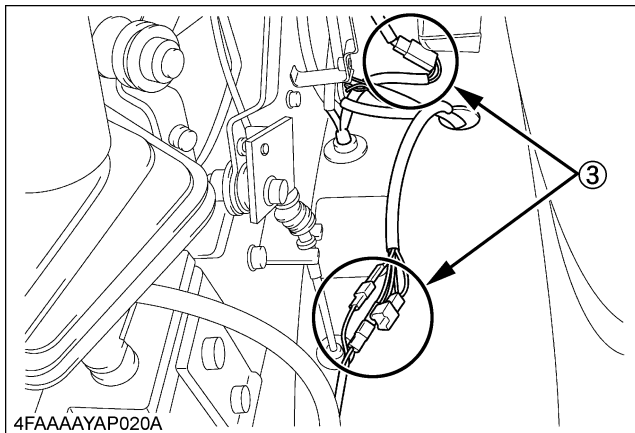
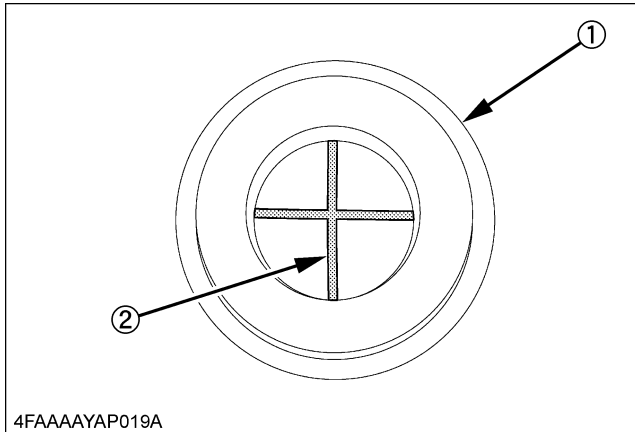


- (1) 1-Control lever assembly (CAB)
(2) 1-Lever boot

8. Slit the rubber cap crosswise and pass the harness through it.
9. Lay the harness (at the solenoid valve side) out of the cabin. Then make necessary connections inside the cabin console.

NOTE :

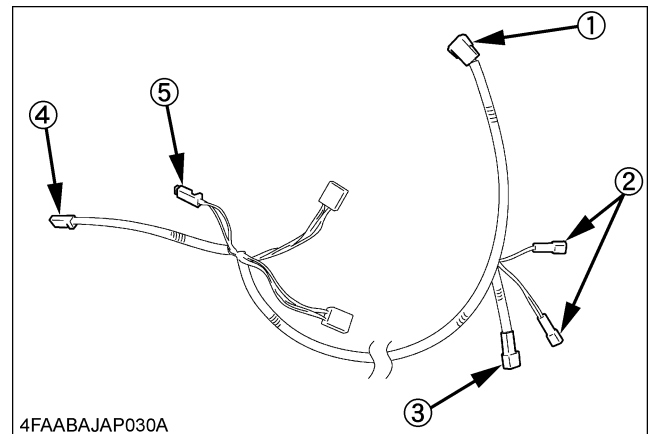
- Make sure the harness is out of contact with other parts and not too tight.



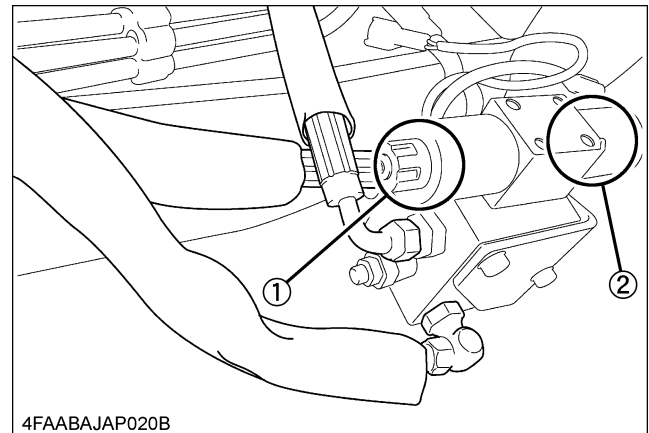
- (1) 1-Rubber cap
- (2) 1-Line for cutting
- (3) 1-3rd function harness

◆ Wire Harness
IMPORTANT :

- Connect the wire harness couplers of the 3rd function control lever to their respective same-color couplers.



- (1) To tractor harness
- (2) To 3rd function control lever
- (3) To ON/OFF switch
- (4) To solenoid valve harness-1
- (5) To solenoid valve harness-2

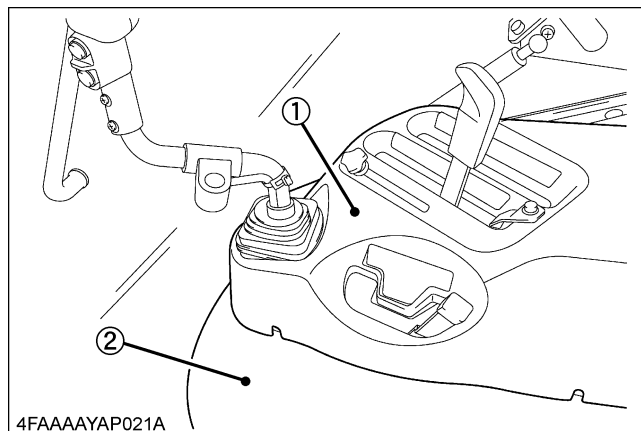


- (1) Solenoid valve harness-1
- (2) Solenoid valve harness-2

10. Put the lower and upper consoles back into position in the reverse order of removal.

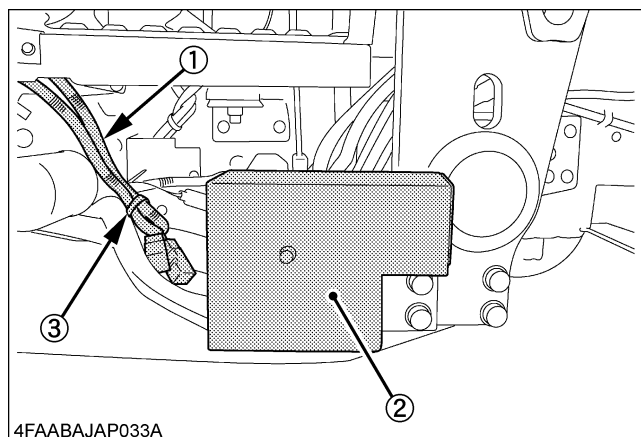
NOTE :

- Make sure the harness and other parts are not caught between the upper and lower consoles.
- Move the control lever and make sure the harness is not caught by the lever or other parts and too tight.



- (1) 1-Upper console
(2) 1-Lower console

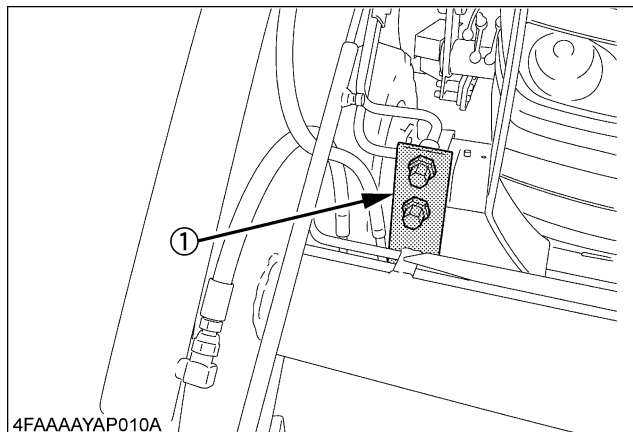
11. Connect the harness to the solenoid valve harness and attach the cover.



- (1) 3rd function harness
(2) Solenoid valve cover
(3) Tie strap

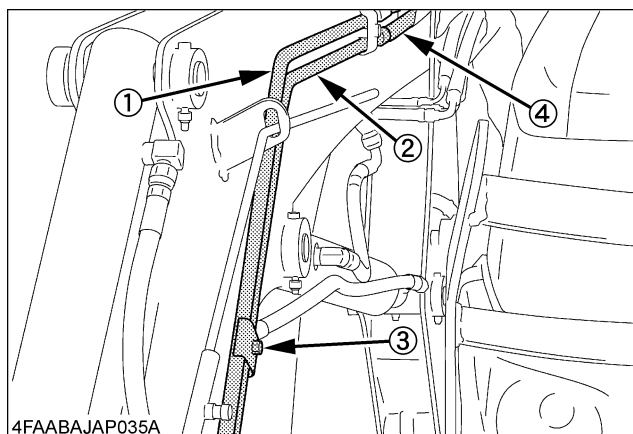
■ 3rd Function Boom Section

1. Attach the coupler stay to the boom.



- (1) 1-Coupler stay
2-M8 x 35 sems bolts

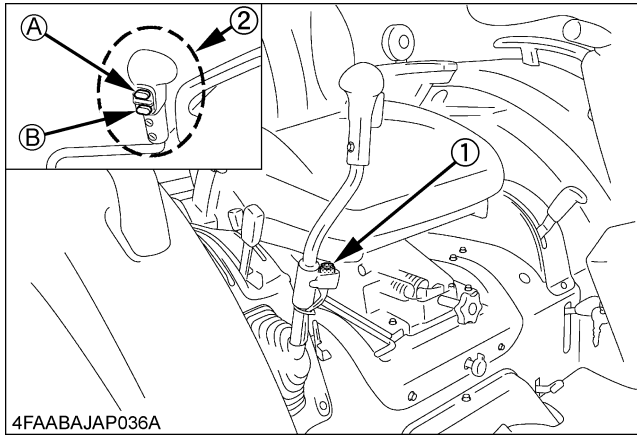
2. Fit the 3rd function tube 1 and 2 to the boom.
3. Connect the 3rd function tube 1 and 2 to the mid hydraulic hose.



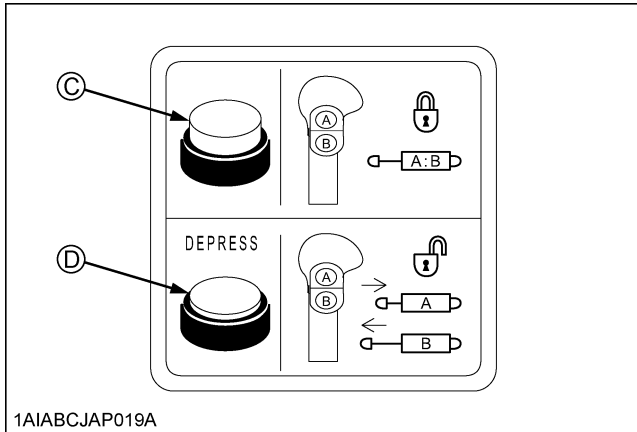
- (1) 1- 3rd function tube 1
(2) 1- 3rd function tube 2
(3) 2-Clamps
2-Collars
2-Sems bolts
(4) 2-Mid hydraulic hoses

4. Front hydraulic valve main switch
Push the front hydraulic valve main switch (1) to engage the front hydraulic valve.
A light on the switch will illuminate to indicate that the front hydraulic valve is on, and to enable the activation switch (2).
5. Activation switch
- (1) When pressing the "A" button, hydraulic oil will come out of the port A and return through the port B as long as the switch is pressed.
 - (2) When pressing the "B" button hydraulic oil will come out of the port B and return through the port A as long as the switch is pressed.

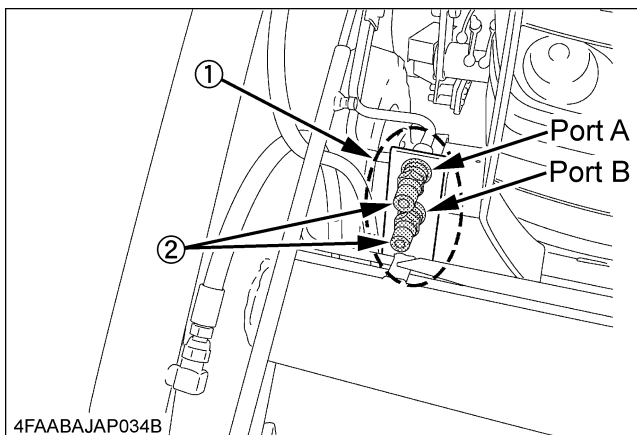
6. Push the front hydraulic valve main switch again to disengage the front hydraulic valve, and the light of the front hydraulic valve main switch will turn off.



(1) Front hydraulic valve main switch
(2) Activation switch



(C) Front hydraulic valve main switch "OFF"
(D) Front hydraulic valve main switch "ON"

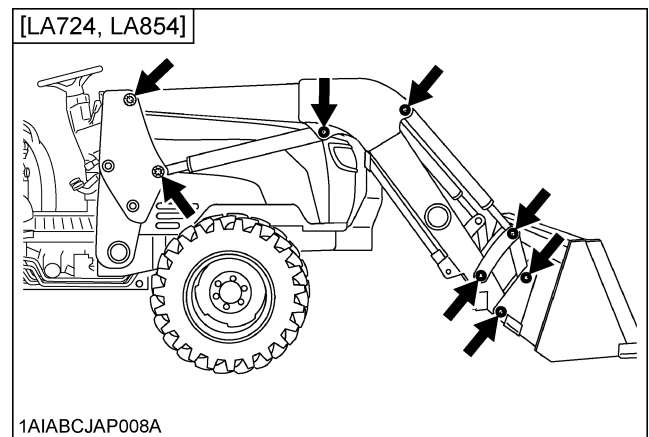
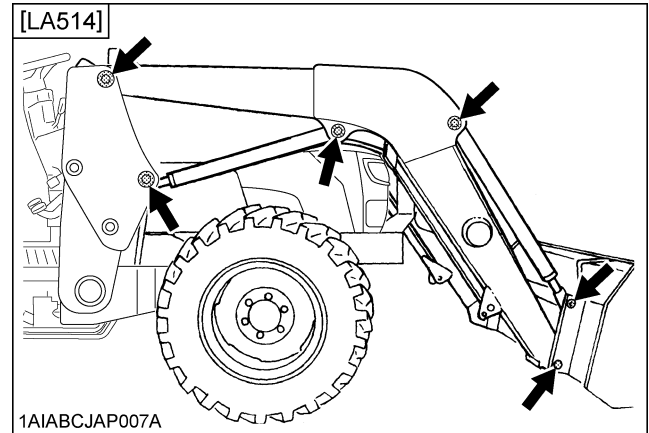


(1) Front hydraulic outlet
(2) Plug

PRE-OPERATION CHECK

■ Lubrication

Lubricate all grease fittings with SAE multipurpose grease.

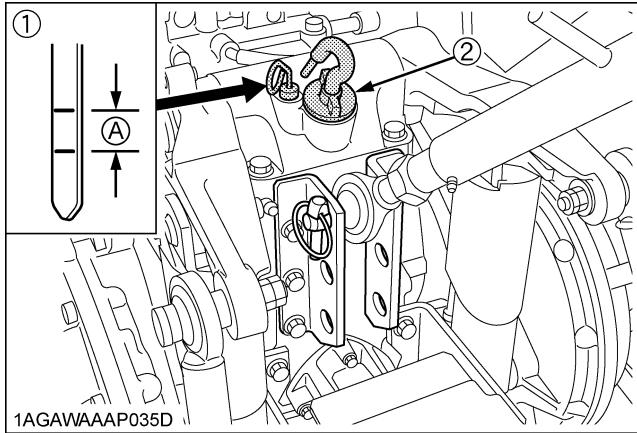


■Transmission Fluid

Check the tractor transmission fluid level. Add fluid if necessary. Refer to the tractor operator's manual for instructions and proper fluid. Repeat this check after purging air from the system. At that time, it will be necessary to add transmission fluid.

IMPORTANT :

- To check the tractor transmission fluid level, lower the bucket to the ground and lower the 3-point hitch.



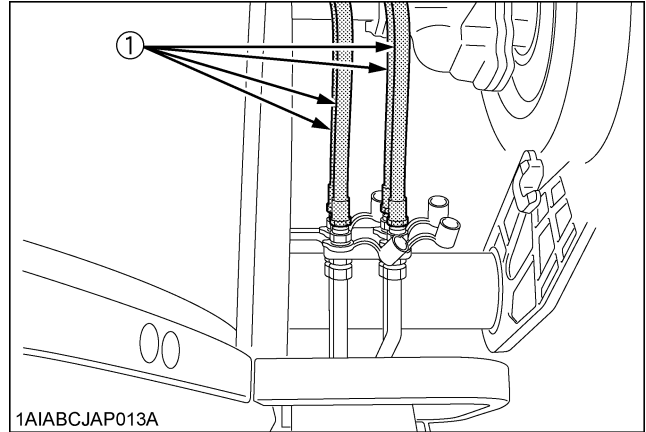
(1) Gauge
(2) Oil inlet

(A) Oil level is acceptable within this range

■Hydraulic Hose Route

When connecting the four hoses to the control valve, adjust the route of the hoses as shown.

Make sure the four hoses are out of contact with the hood and others parts.



(1) Four hoses

ESTIMATED ASSEMBLY TIME




Refer to the following table for the estimated assembly time to open the crate and assemble the loader.

Assembly times on the table are just reference under the average conditions with following assumption.

1. Assembly by one worker.
2. Following tools and equipment are prepared.
 - (1) Chain hoist or crane.
 - (2) Impact wrench, Ratchet wrench, Torque wrench, Socket wrench, Spanner wrench.
 - (3) Nylon strap.

LA514 LA724 LA854	1.0 hour
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TIGHTENING TORQUE OF BOLTS AND NUTS

American standard screws, bolts and nuts with UNC or UNF threads				Metric cap screws 	
SAE grade No.	SAE GR.5 	SAE GR.8 		property class	8.8 Approx. SAE GR 5
1/4 (N-m) (kgf-m) (ft-lbs)	11.7 to 15.8 1.19 to 1.61 8.6 to 11.6	16.3 to 19.8 1.66 to 2.02 12.0 to 14.6		M6 (N-m) (kgf-m) (ft-lbs)	9.8 to 11.2 1.0 to 1.1 7.2 to 8.3
5/16 (N-m) (kgf-m) (ft-lbs)	23.1 to 27.8 2.35 to 2.83 17.0 to 20.5	32.5 to 39.3 3.31 to 4.01 24.0 to 29.0		M8 (N-m) (kgf-m) (ft-lbs)	23.6 to 27.4 2.4 to 2.8 17.4 to 20.2
3/8 (N-m) (kgf-m) (ft-lbs)	47.5 to 57.0 4.84 to 5.81 35.0 to 42.0	61.0 to 73.2 6.22 to 7.46 45.0 to 54.0		M10 (N-m) (kgf-m) (ft-lbs)	48.1 to 55.8 4.9 to 5.7 35.5 to 41.2
1/2 (N-m) (kgf-m) (ft-lbs)	108.5 to 130.2 11.06 to 13.28 80.0 to 96.0	149.2 to 179.0 15.21 to 18.25 110.0 to 132.0		M12 (N-m) (kgf-m) (ft-lbs)	77.5 to 90.1 7.9 to 9.2 57.2 to 66.5
9/16 (N-m) (kgf-m) (ft-lbs)	149.2 to 179.0 15.21 to 18.25 110.0 to 132.0	217.0 to 260.4 22.13 to 26.55 160.0 to 192.0		M14 (N-m) (kgf-m) (ft-lbs)	124 to 147 12.6 to 15.0 91.5 to 108.4
5/8 (N-m) (kgf-m) (ft-lbs)	203.4 to 244.1 20.74 to 24.89 150.0 to 180.0	298.3 to 358.0 30.42 to 36.51 220.0 to 264.0		M16 (N-m) (kgf-m) (ft-lbs)	196 to 225 20.0 to 23.0 145 to 166

