

# CA20, 871, 872, and 873 COMBINE ADAPTER HEADER SELECTOR VALVE REPAIR KIT (MD #279833) INSTALLATION INSTRUCTIONS

The Combine Adaptor Header Selector Valve Repair Kit (MD #279833) includes the necessary hardware to allow the use of valve (MD #133418) with the following models of MacDon Combine Adapter: 871, 872, 873, and CA20.

A list of parts included in the kit is provided on page 2.

NOTE: Keep your MacDon publications up-to-date. The most current version of this instruction can be downloaded from our Dealer-only site (<https://portal.macdon.com>) (login required).

NOTE: This instruction is available in English only.

## Installation Time

It should take approximately 45 minutes to install this kit.

## Conventions

The following conventions are followed in this document:

- Right and left are determined from the operator's position. The front of the header is the side that faces the crop; the back of the header is the side that connects to the combine.
- Unless otherwise noted, use the standard torque values provided in the header operator's manual and technical manual.

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**CA20, 871, 872, and 873 COMBINE ADAPTER  
HEADER SELECTOR VALVE REPAIR KIT (MD #279833)  
INSTALLATION INSTRUCTIONS**

**Part List**

This kit includes the following parts:

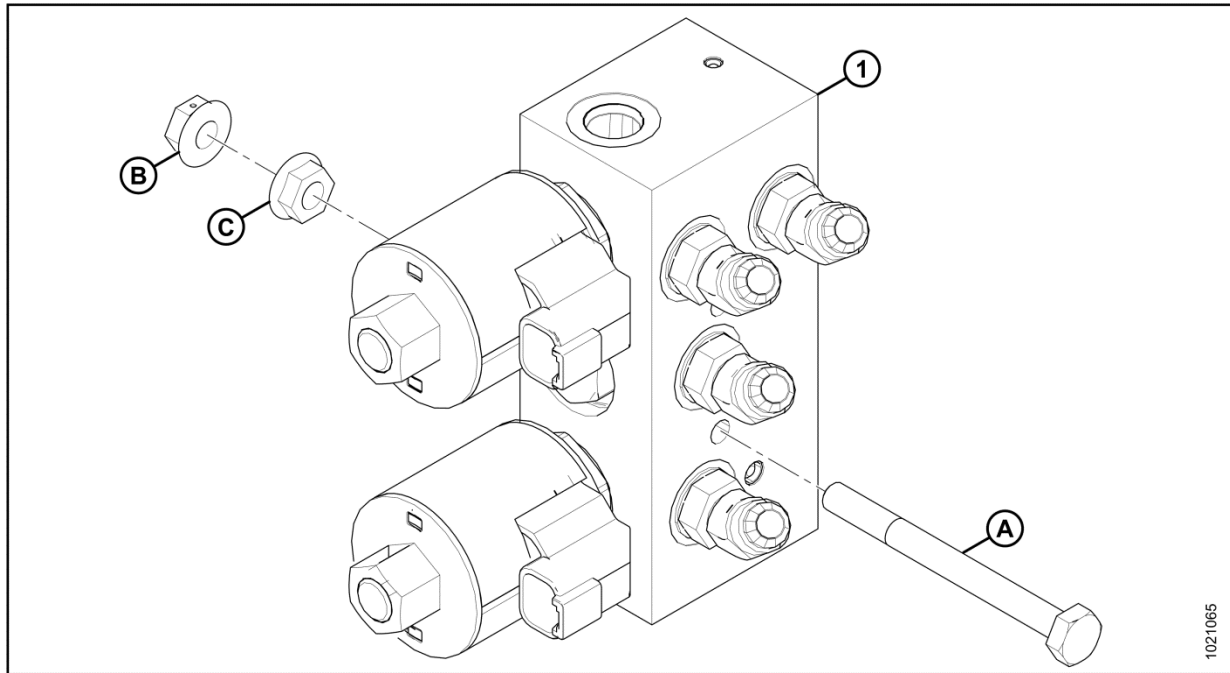


Figure 1: Selector Valve Kit Parts

Table 1: Kit Parts (MD #279833)

Ref	Part Number	Description	Quantity
1	133418	VALVE-SELECTOR	1
A	135250	BOLT – HEX HD. 0.025-20UNC X 2.75 IN LG ZN	2
B	135248	NUT – FLG SMTH FACE ¼-20 NC GR5 ZP CTR LK DT THD	2
C	21455	NUT – FLG (SERR FACE) ¼-20 NC GR5 ZP	2

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## Installation Instructions

To install the Combine Adaptor Header Selector Valve Repair Kit (MD #279833), follow these procedures in order.

### Removing Header Selector Valve Manifold

1. Read the instructions thoroughly and verify that you have all parts in the included parts list.
2. Lower header to the ground.
3. Raise reel arms until level. This will help reduce hydraulic oil pressure on reel fore-aft cylinders.



### DANGER

To avoid bodily injury or death from unexpected startup of the machine, always stop the engine and remove the key from the ignition before leaving the operator's station for any reason.



### WARNING

Remove pressure before disconnecting hydraulic lines. If a header is attached to the windrower, set header on the ground or lower the header onto the safety props before starting this installation.

4. Stop engine and remove key.

**NOTE:** The CA20 selector valve manifold is located to the left side of the conveyor (Figure 2).

5. **CA20 only:** Remove access cover bolts and cover. Retain hardware for reuse.

**NOTE:** The 871/872/873 selector valve is located to the right side of the conveyor and mounted on the frame (Figure 3).

6. Disconnect the electrical plugs from coils.



### CAUTION

Loosen hydraulic lines gradually. This will reduce the chance of rapid high pressure oil discharge.

7. Remove hose connections at valve manifold end.

**NOTE:** To avoid contamination, protect hose ends with plastic, or use an appropriate hose plug.

8. Remove the two mounting bolts, washers, and nuts. Retain for reuse.

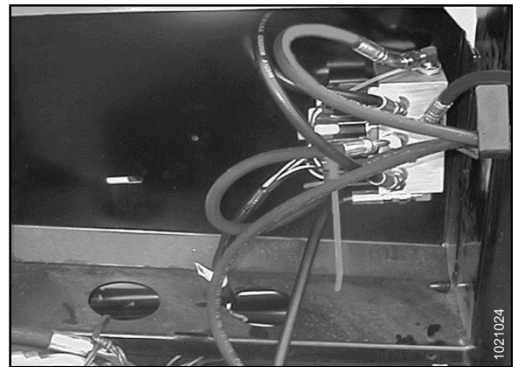


Figure 2: Selector Valve CA20



Figure 3: Selector valve 871/872/873

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## Installing Header Selector Valve

1. Remove parts from kit.
2. Adjust fittings on new valve to match fitting orientation on old valve.
3. **871/872/873 only:** Bolt valve (MD #133418) to header mounted bracket using hardware retained from step 9.
4. **CA20 only:** Bolt valve into hydraulic compartment as shown using hardware supplied with kit (Figure 4).

**NOTE:** Serrated nut (B) is installed on inside of adaptor frame and smooth faced distorted head nut (B) is installed on the outside of the adapter frame.

5. Connect hydraulic hoses from valve ports P1 and P2 to the couplers for fore-aft control on your combine.

**NOTE:** P1 (green cable tie), is the fore side of the circuit, while P2 (red cable tie), is the aft side.

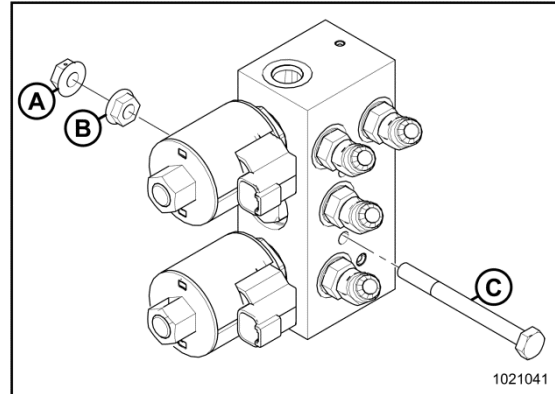


Figure 4: Mounting Selector Valve (CA20 only)

A – MD #135248

B – MD #21455

C – MD #135248

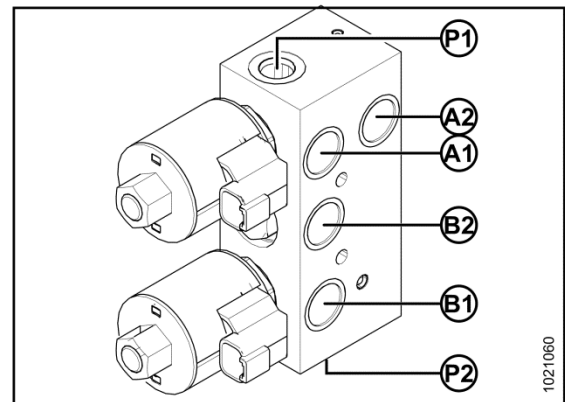


Figure 5: Ports Diagram  
(fittings removed for clarity)

**CA20, 871, 872, and 873 COMBINE ADAPTER  
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**NOTE:** Identify hydraulic hoses by connection points at barrel or rod end of cylinders and trace back.

**Table 2: Hose Connection A1, B1 Ports**

Header model	Fore-aft “fore” (green) hose from valve port “A1” connects to:	Fore-aft “aft” (red) hose from valve port “B1” connects to:
<b>972/973/974 (double reel)</b>	Right fore-aft cylinder (green) barrel end	Left fore-aft cylinder (red) rod end
<b>972/973 (single reel)</b>	Right fore-aft cylinder (green) rod end	Left fore-aft cylinder (red) rod end
<b>D60 (double reel) FD70</b>	Right fore-aft cylinder (green) rod end	Center fore-aft cylinder (red) barrel end
<b>D50 D60 (single reel)</b>	Left Fore-Aft cylinder (green) barrel end	Right fore-aft cylinder (red) barrel end

**Table 3: Hose Connection A2, B2 ports**

Header Model:	Cylinder Port	Valve Port
All	Barrel end tilt cylinder	A2
All	Rod end tilt cylinder	B2

6. Connect the hydraulic hoses to the tilt and fore-aft cylinders using tables 2 and 3 as a reference.
7. Reconnect the wiring harness to the solenoids on the new selector valve. Note that new valve has only two solenoids. Securely tape the unused third harness connector back to the harness using electrical tape. The third coil may or may not initially be present.
8. **CA20 only:** Reinstall cover of hydraulic compartment using hardware retained from step 5.