



**Overseas Technical Services Kish**

## **OP11-D-PB Levelwind Directional Valve**

**Publisher: Jalal Al Ali**

**2018.11**



## CONTENT

- ◆Introduction of Tool
- ◆Disassembly
- ◆Assembly

معرفی Tool



نحوی جدا سازی قطعات



نحوی سر هم کردن قطعات





# Overseas Technical Services Kish





## Introduction:

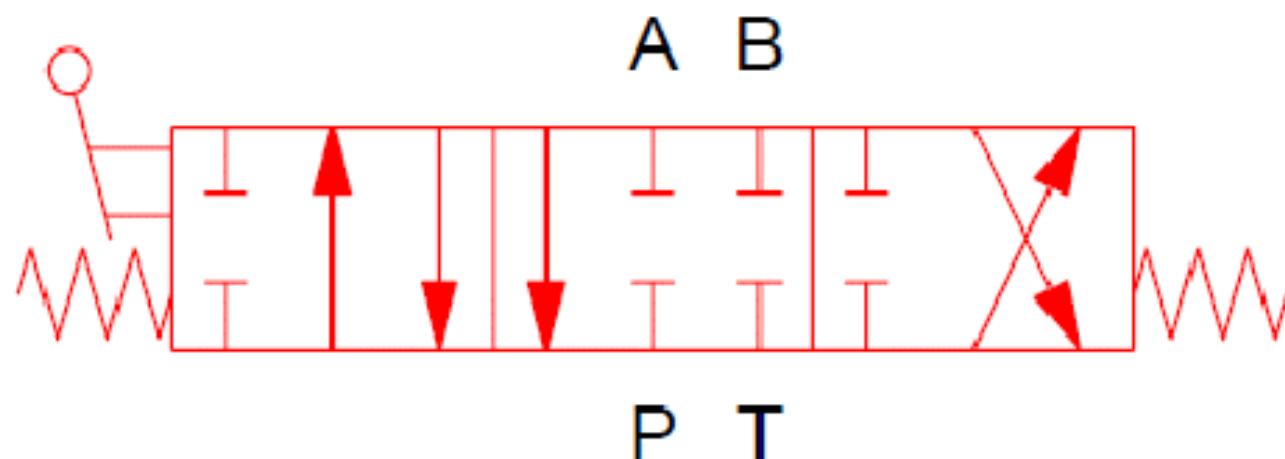


: معرفی



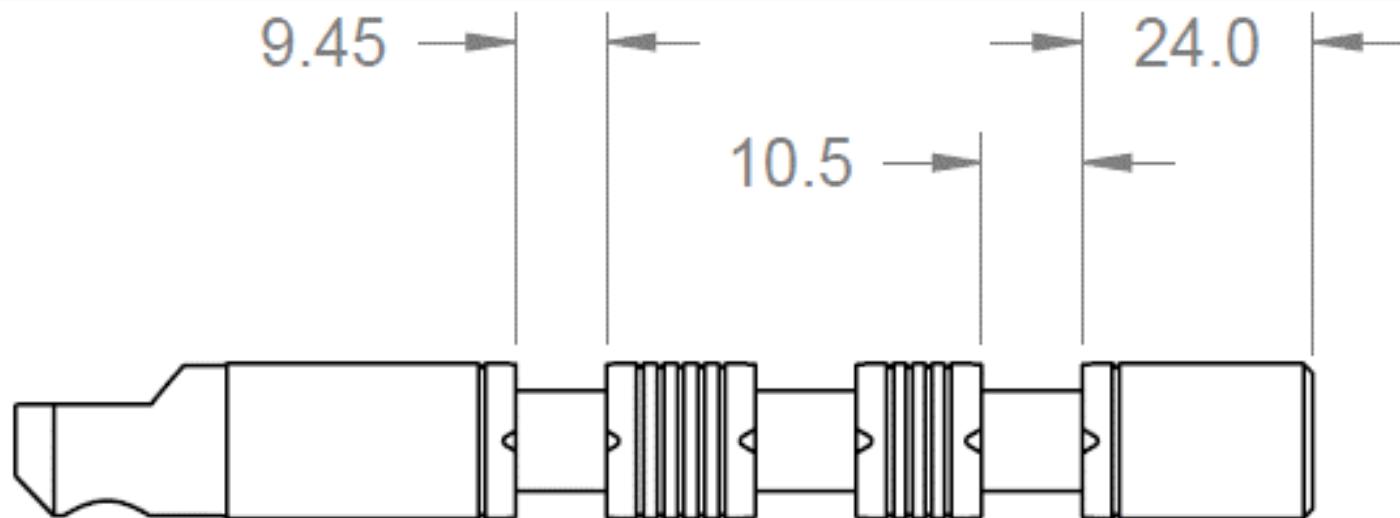


# Overseas Technical Services Kish





# Overseas Technical Services Kish





# Overseas Technical Services Kish

Valve Model	Spool Types	Options	
OP11	D	Double Acting	PB High pressure carry over. Plug supplied in package as standard



## ➤ Required hand tools

ابزار مورد نیاز



- O-ring Remover
- Allen Key



## Disassembly

➤ Place valve body in the vice

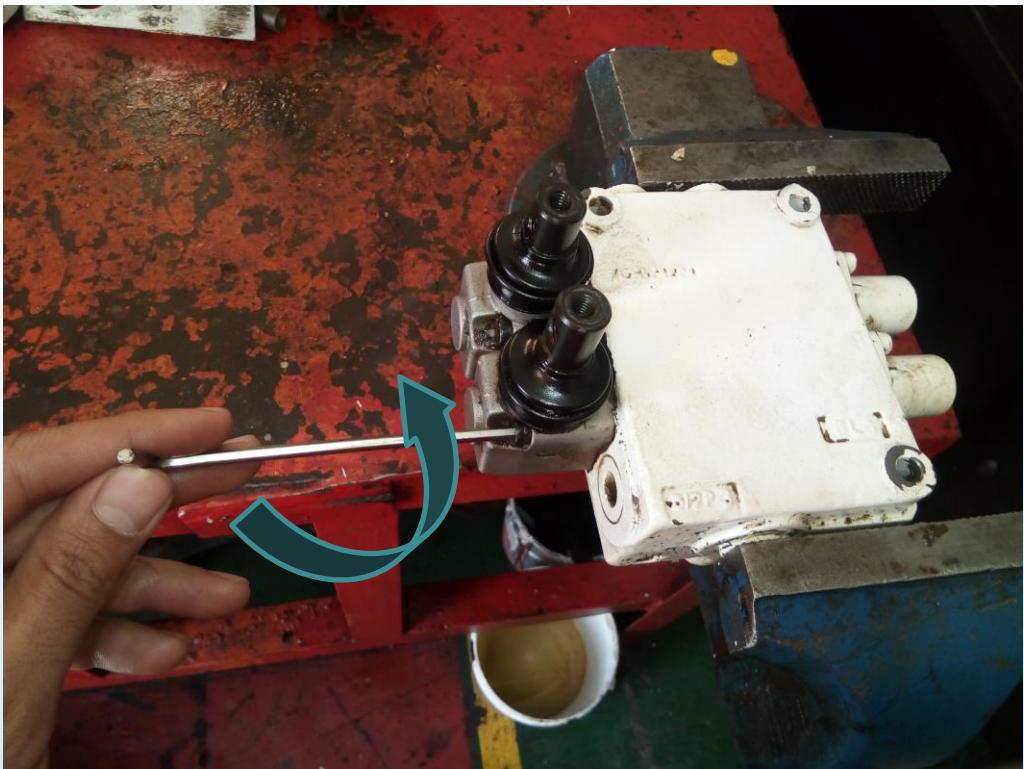




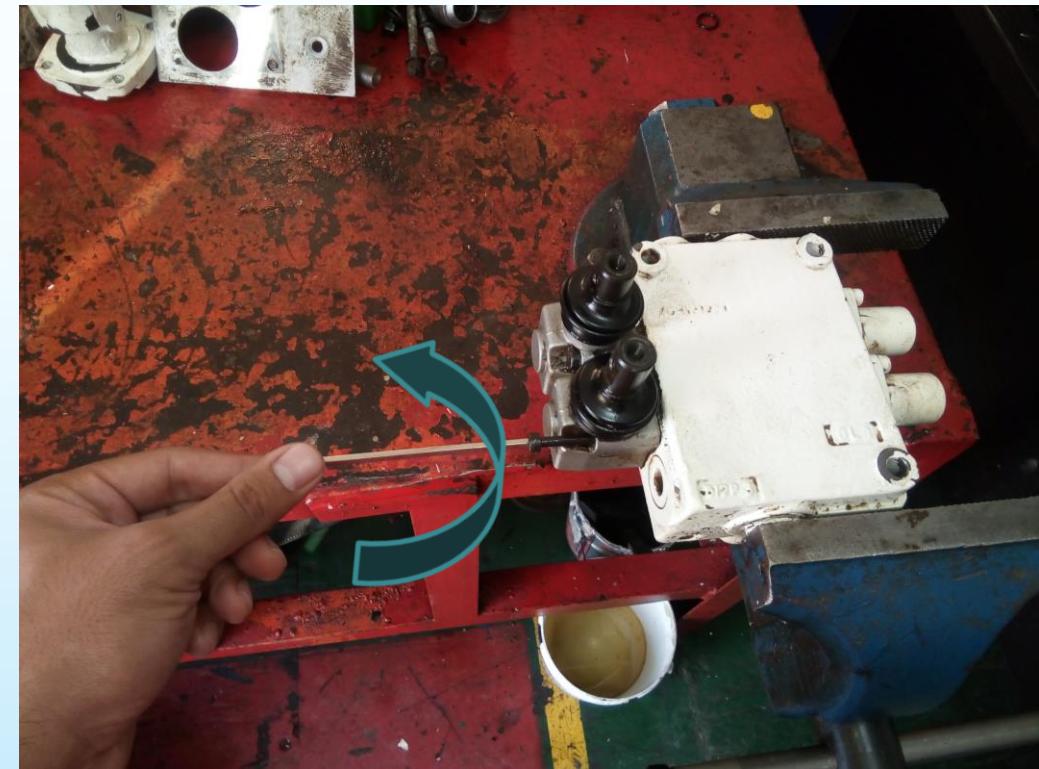
# Overseas Technical Services Kish

- Turn off lever box assembly (2) screws (1).

A



B

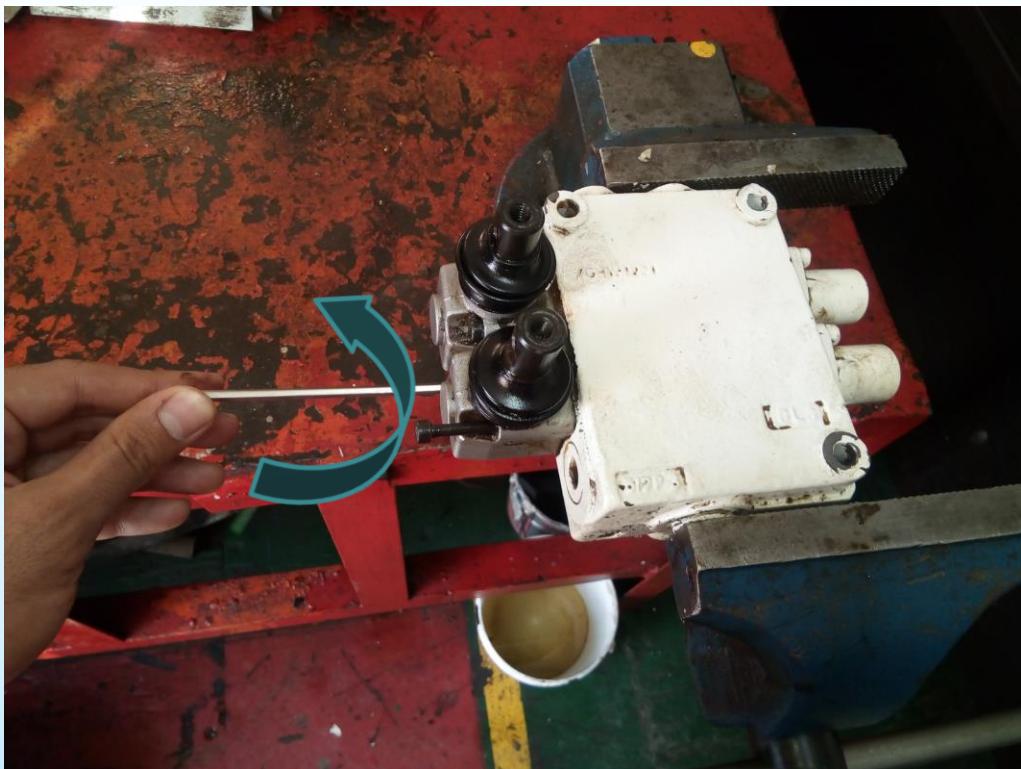




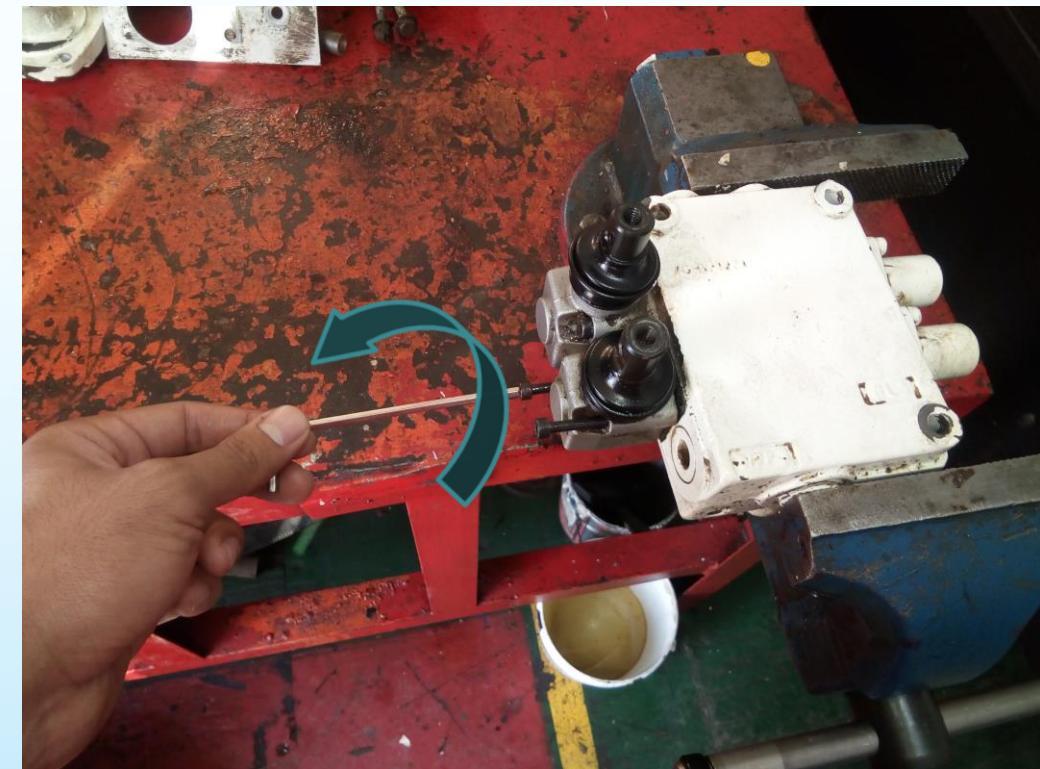
# Overseas Technical Services Kish

- Turn off lever box assembly (2) screws (1).

C



D





# Overseas Technical Services Kish

- Turn off lever box assembly (2) screws (1).

E



F

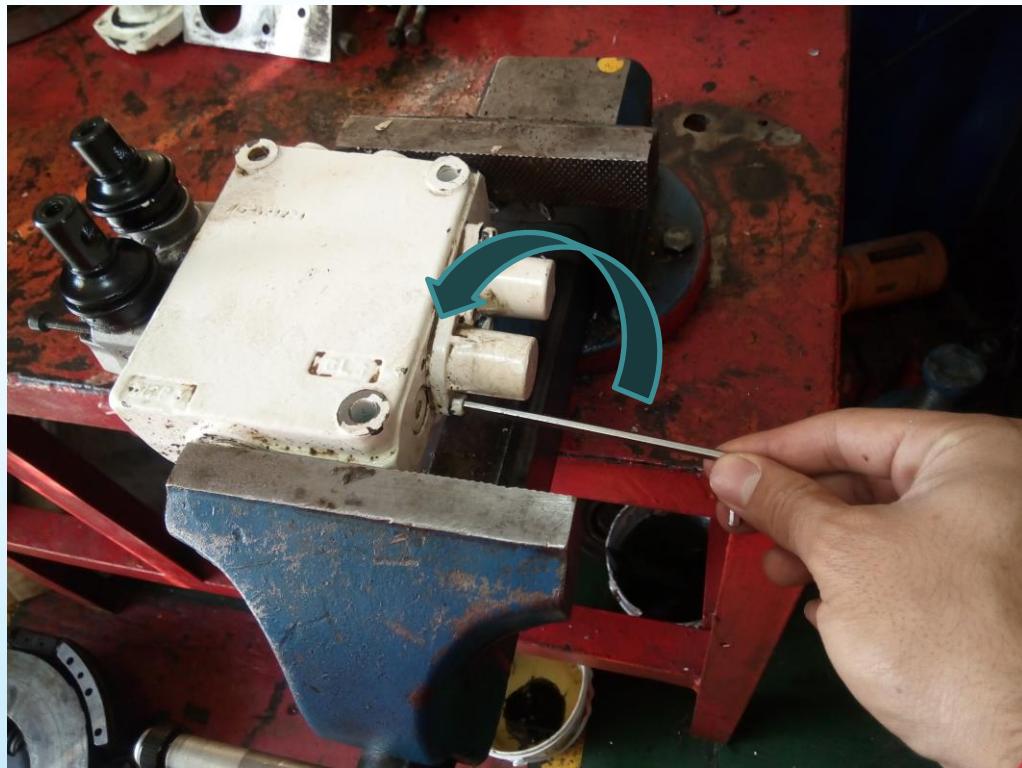




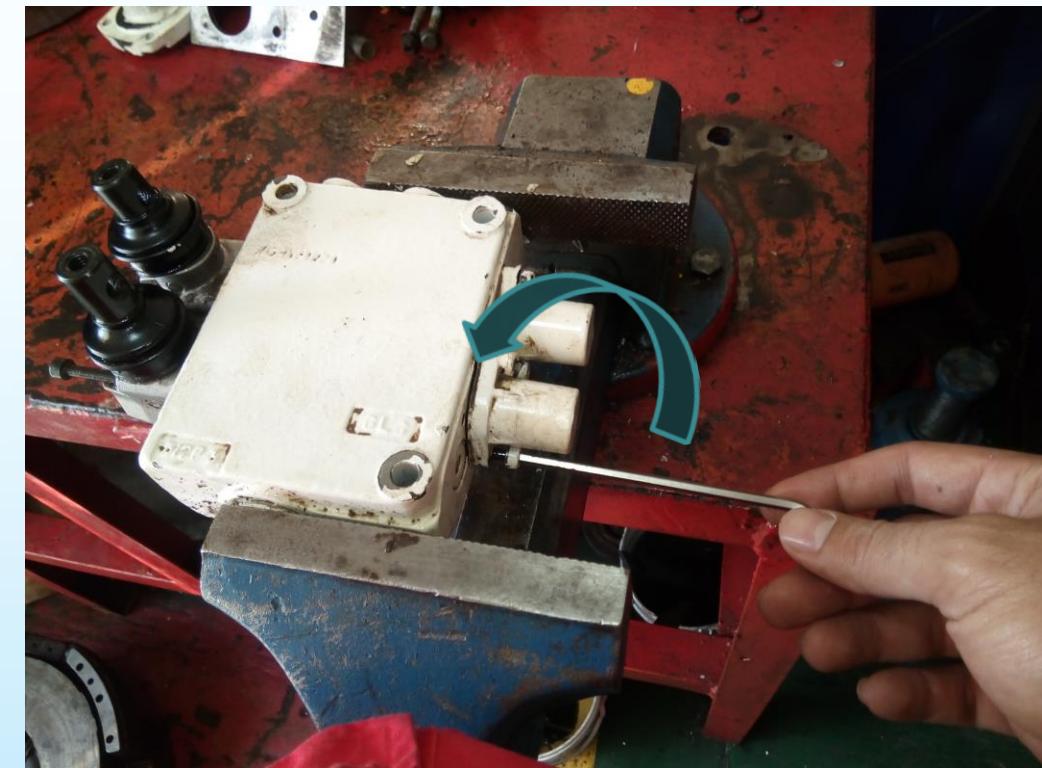
# Overseas Technical Services Kish

- Turn off spring cap (17) screws (18).

A



B





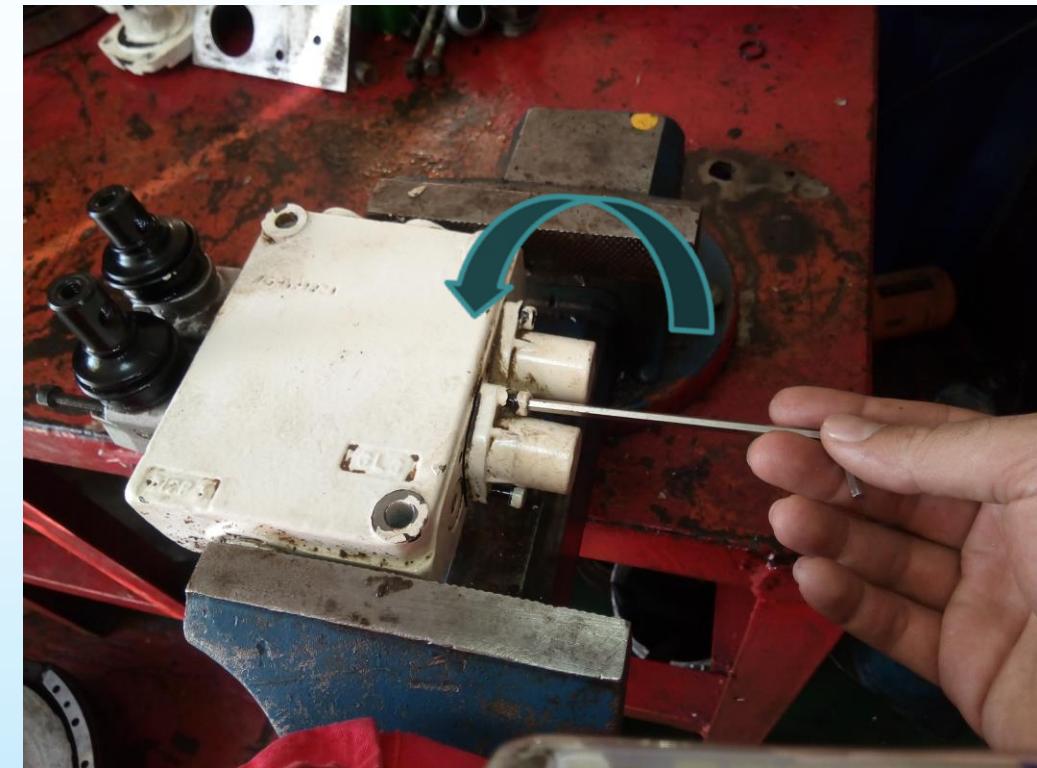
# Overseas Technical Services Kish

- Turn off spring cap (17) screws (18).

C



D

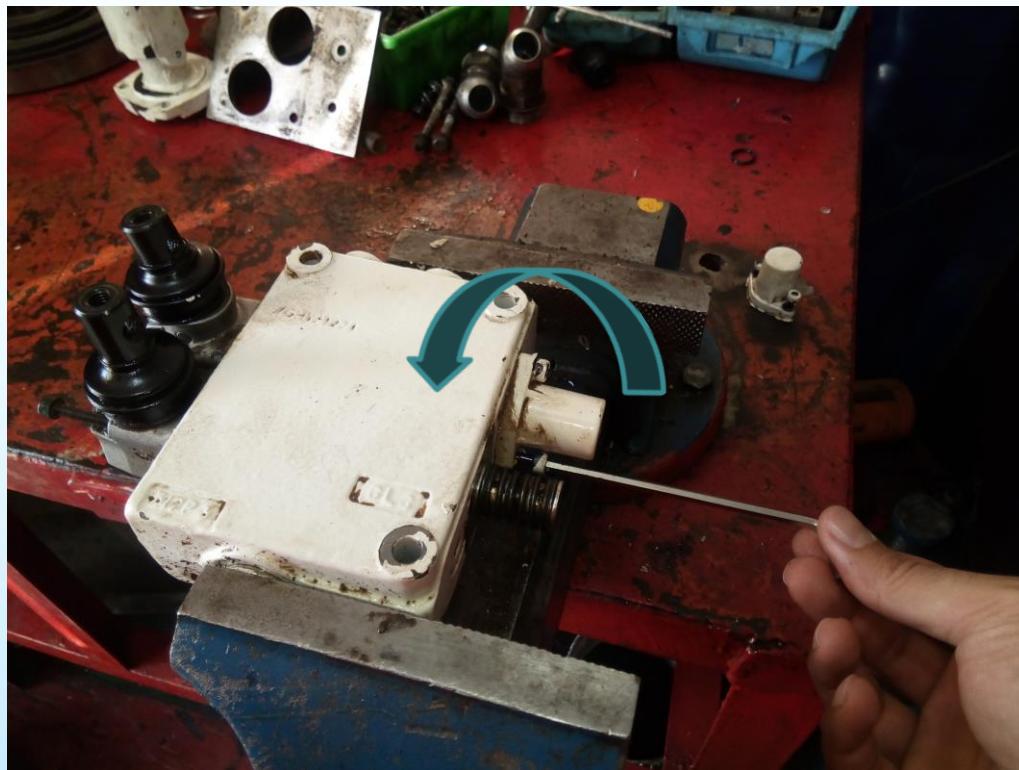




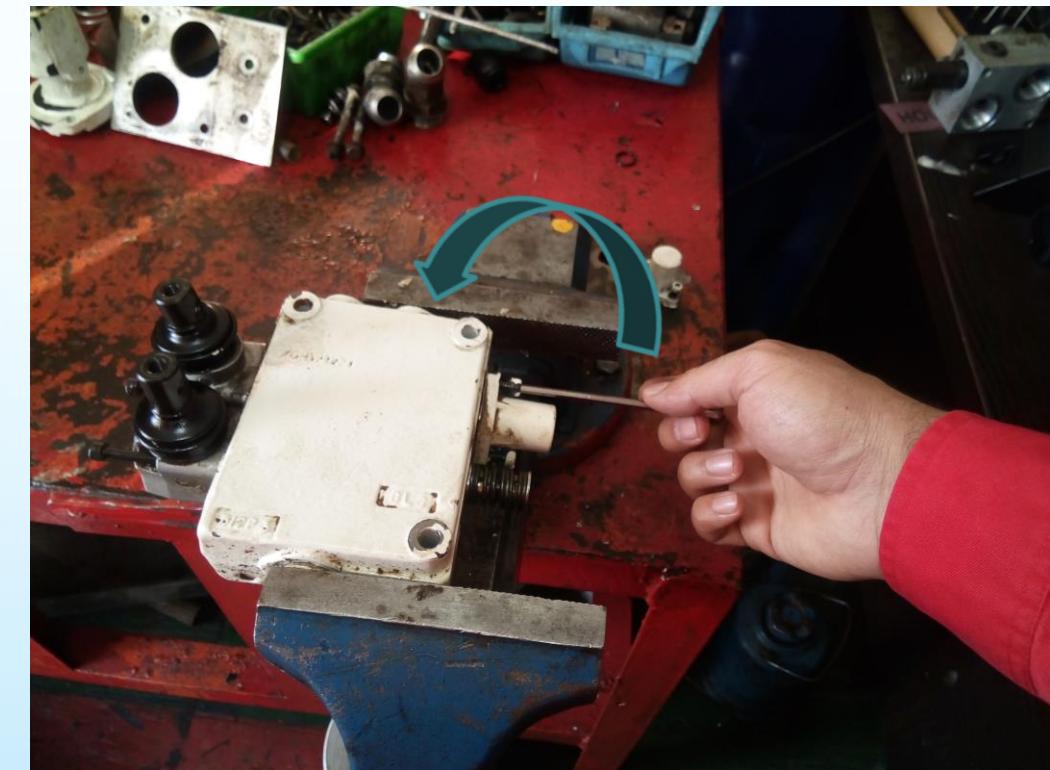
# Overseas Technical Services Kish

- Turn off spring cap (17) screws (18).

E



F

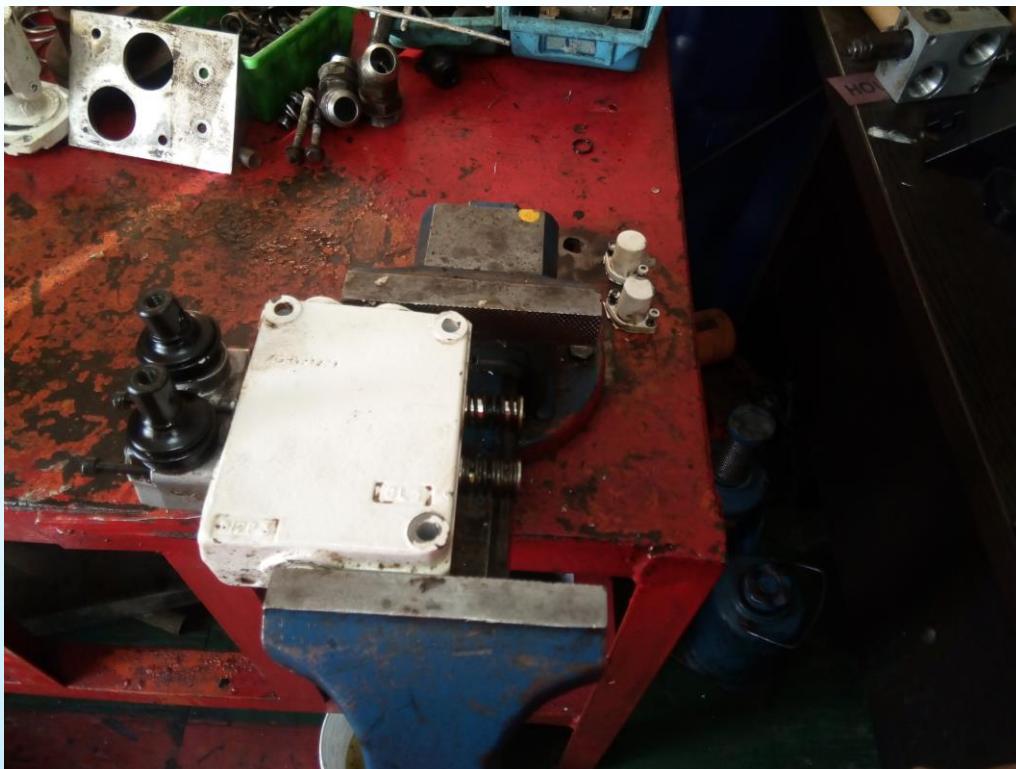




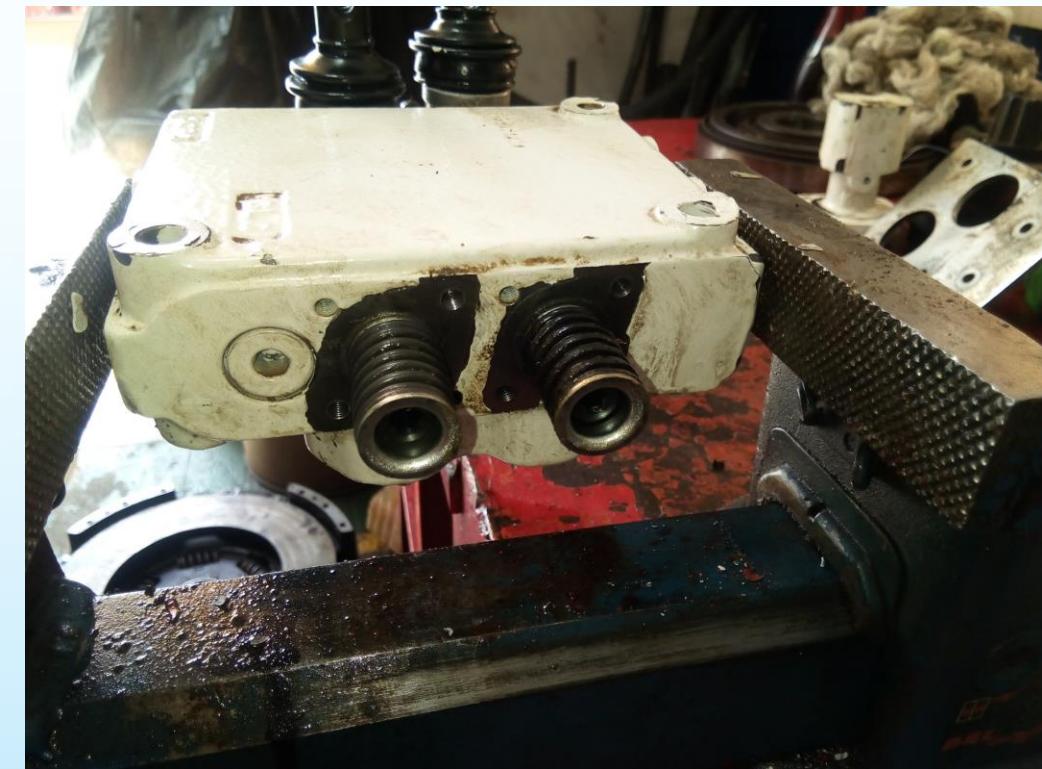
# Overseas Technical Services Kish

➤ Remove spring caps (17).

A



B





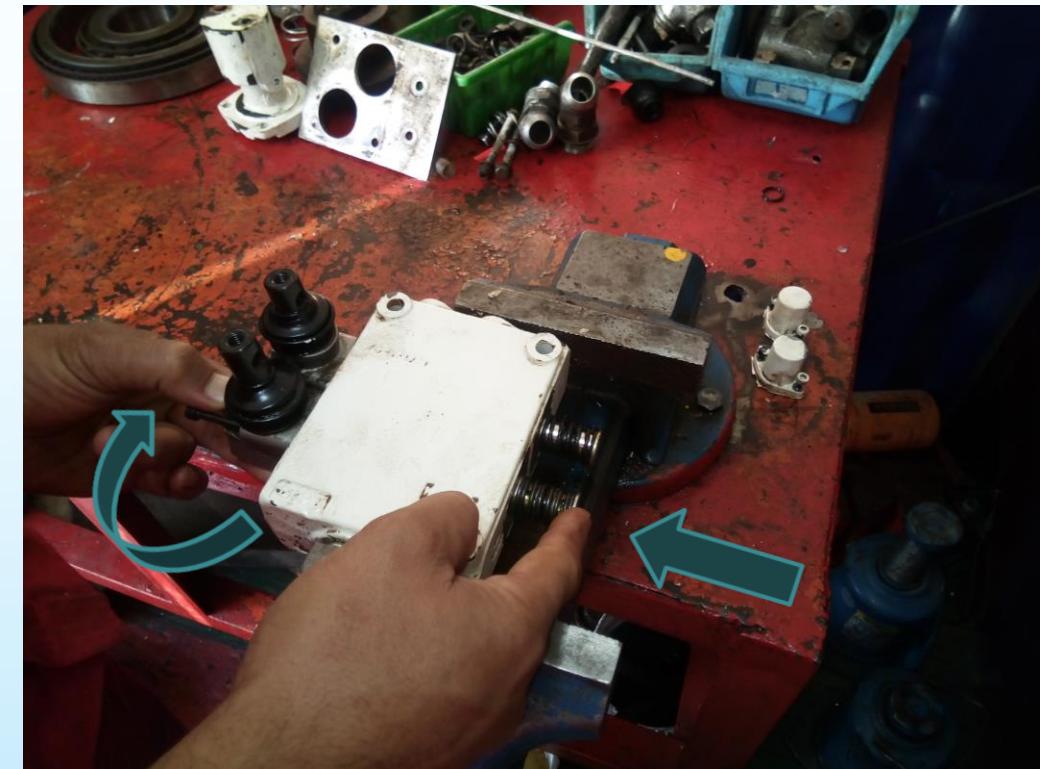
# Overseas Technical Services Kish

- Hold the spool (6) from short spring cap (14) and remove lever box assembly (2).

A



B

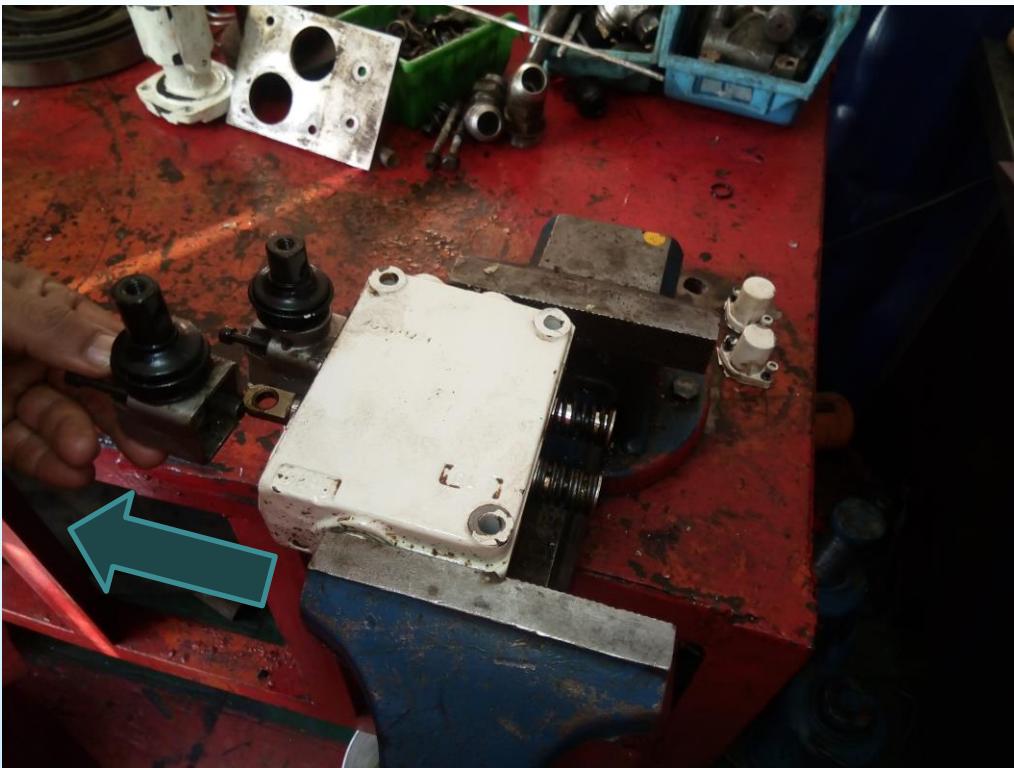




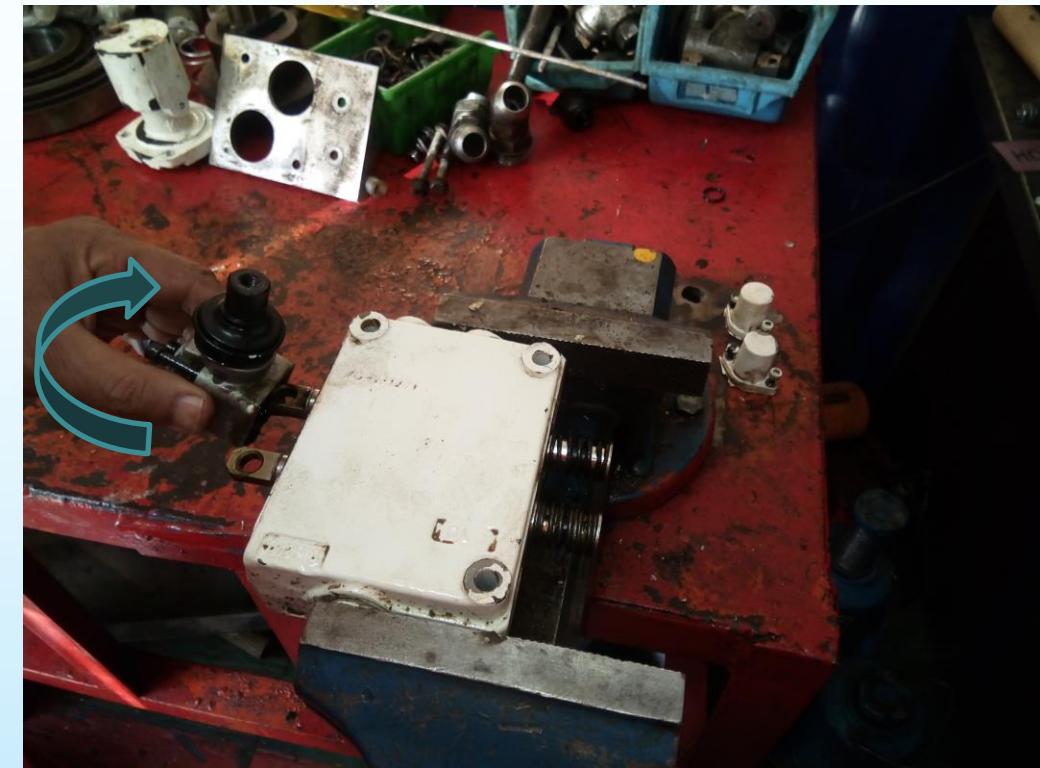
# Overseas Technical Services Kish

- Hold the spool (6) from short spring cap (14) and remove lever box assembly (2).

C



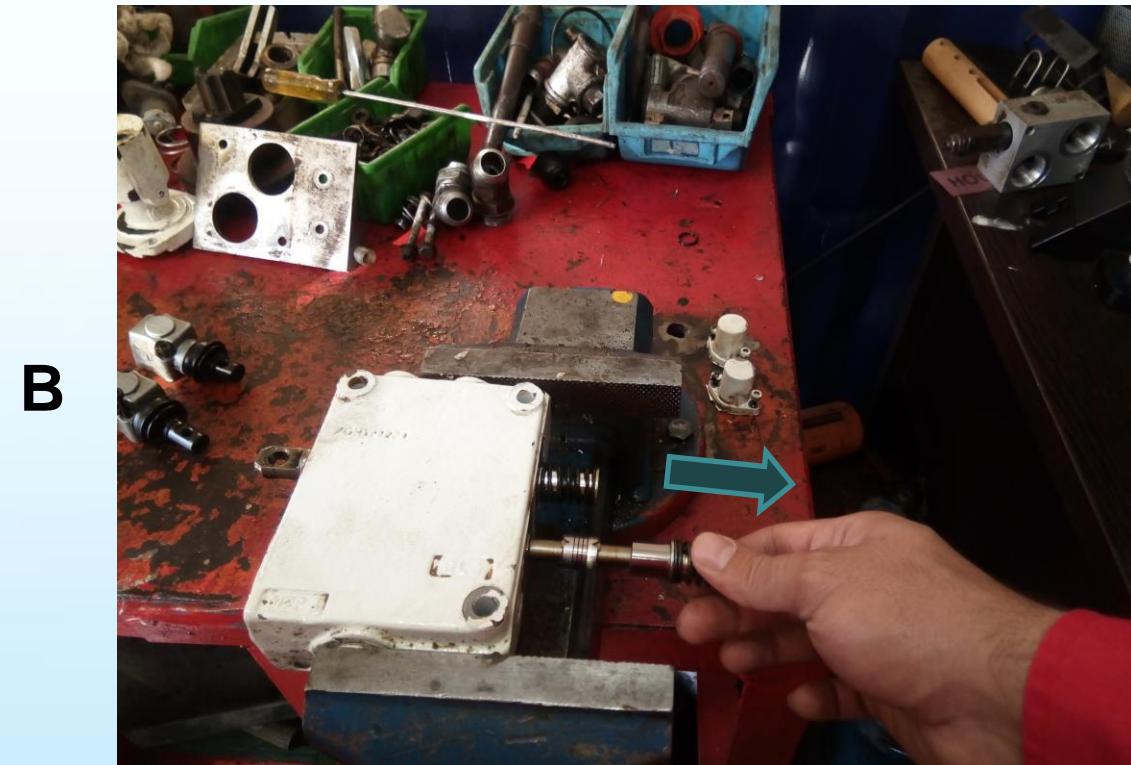
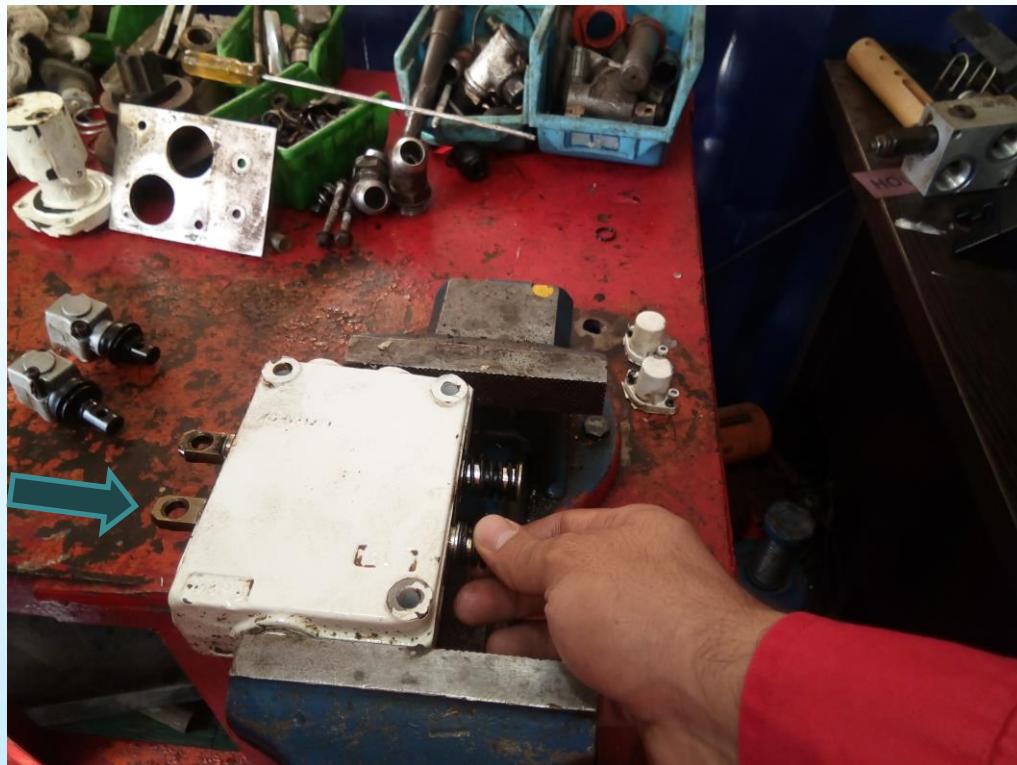
D





# Overseas Technical Services Kish

- Remove the spool (6) by pulling it from short spring cap (14).

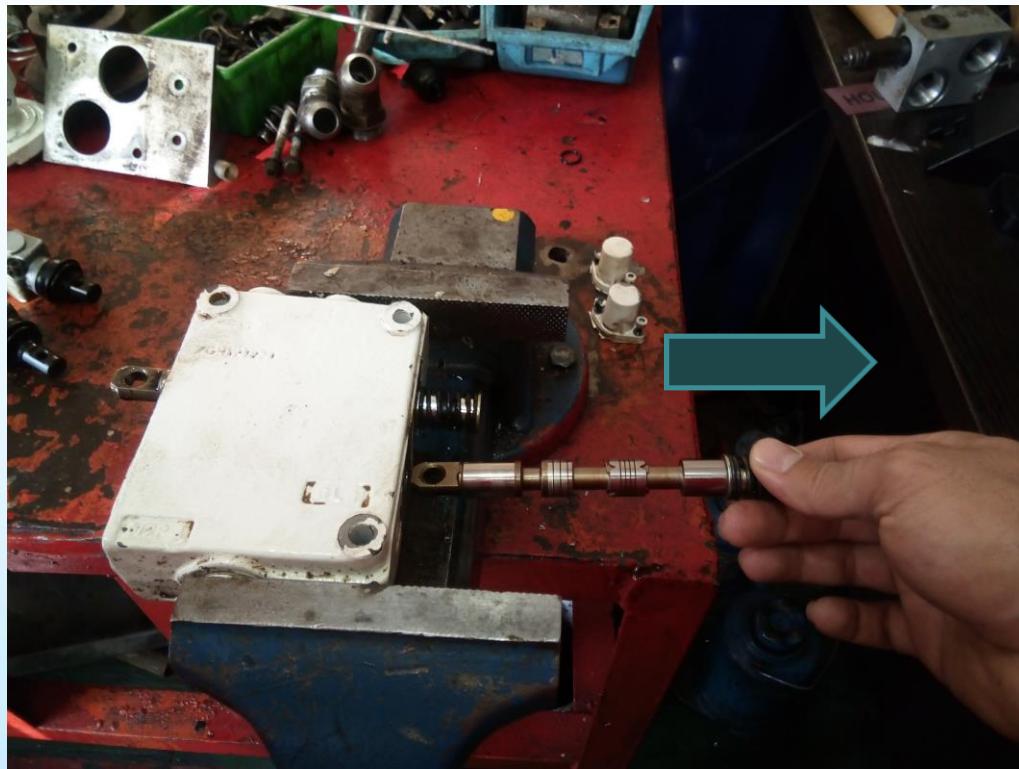




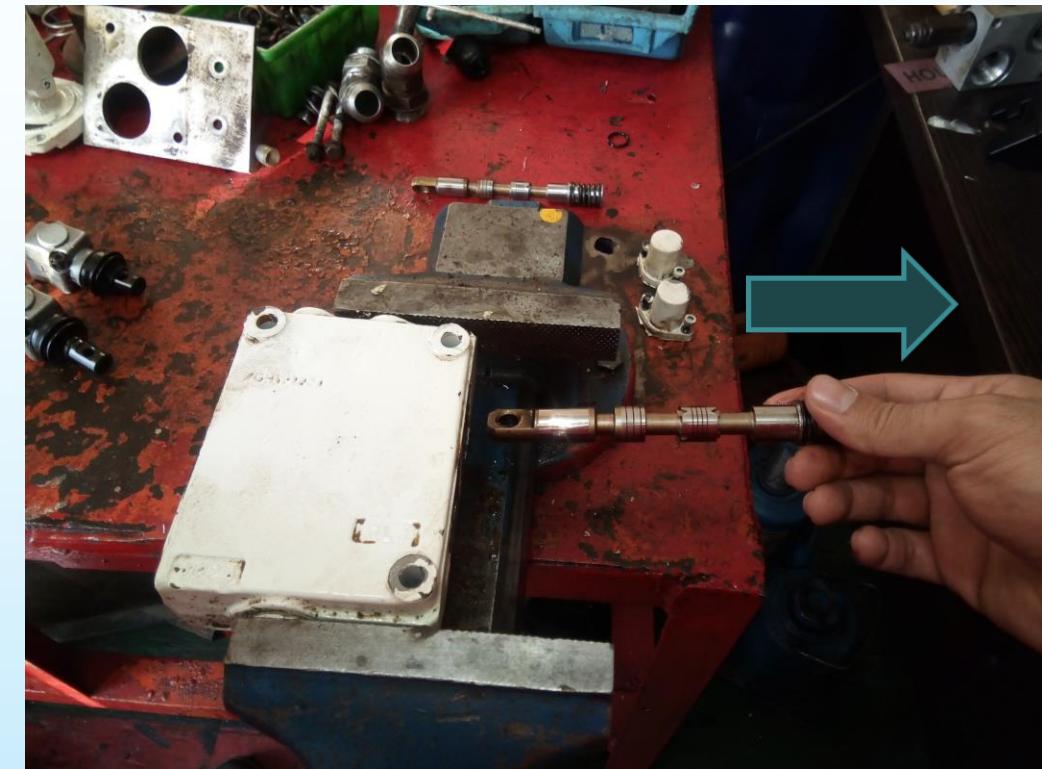
# Overseas Technical Services Kish

- Remove the spool (6) by pulling it from short spring cap (14).

C



D

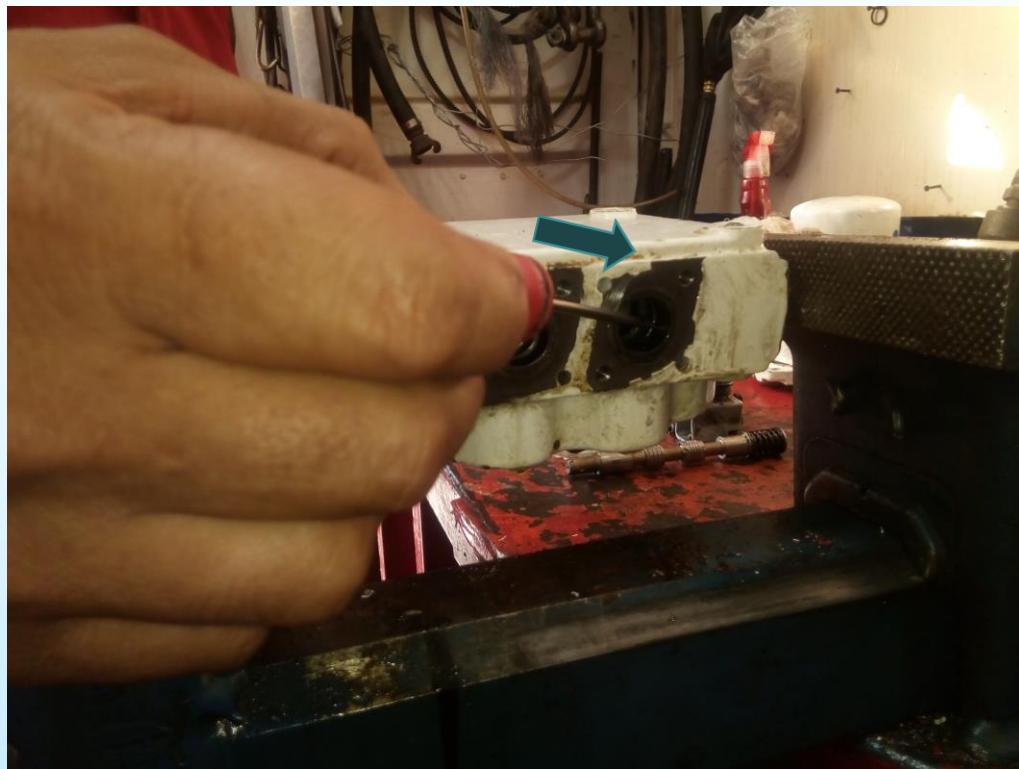




# Overseas Technical Services Kish

- Remove all O-rings and clean all seal surfaces.

A



B





# Overseas Technical Services Kish

➤ Clean all parts and seal surfaces and change damaged seals.

A



B





# Overseas Technical Services Kish



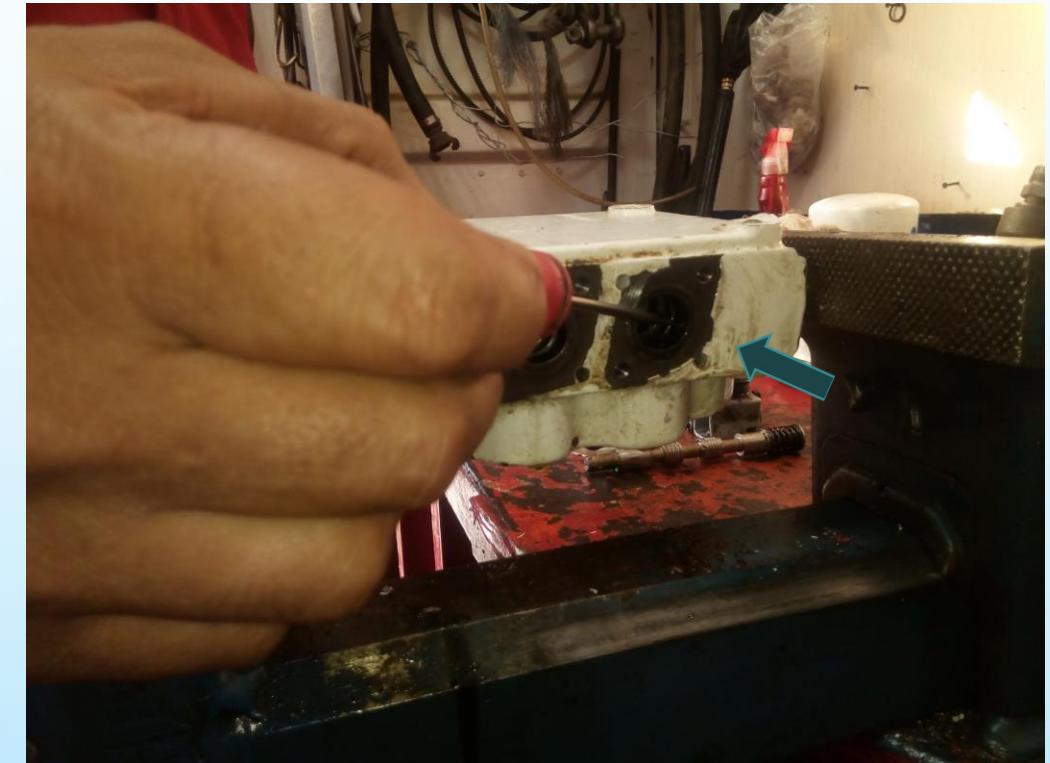


# Assembly

➤ Prior to assembly, install all O-rings and coat all seals, seal surfaces and threads with a light coat of proper hydraulic oil.



A



B



# Overseas Technical Services Kish

➤ Prior to assembly, install all O-rings and coat all seals, seal surfaces and threads with a light coat of proper hydraulic oil.

C



D





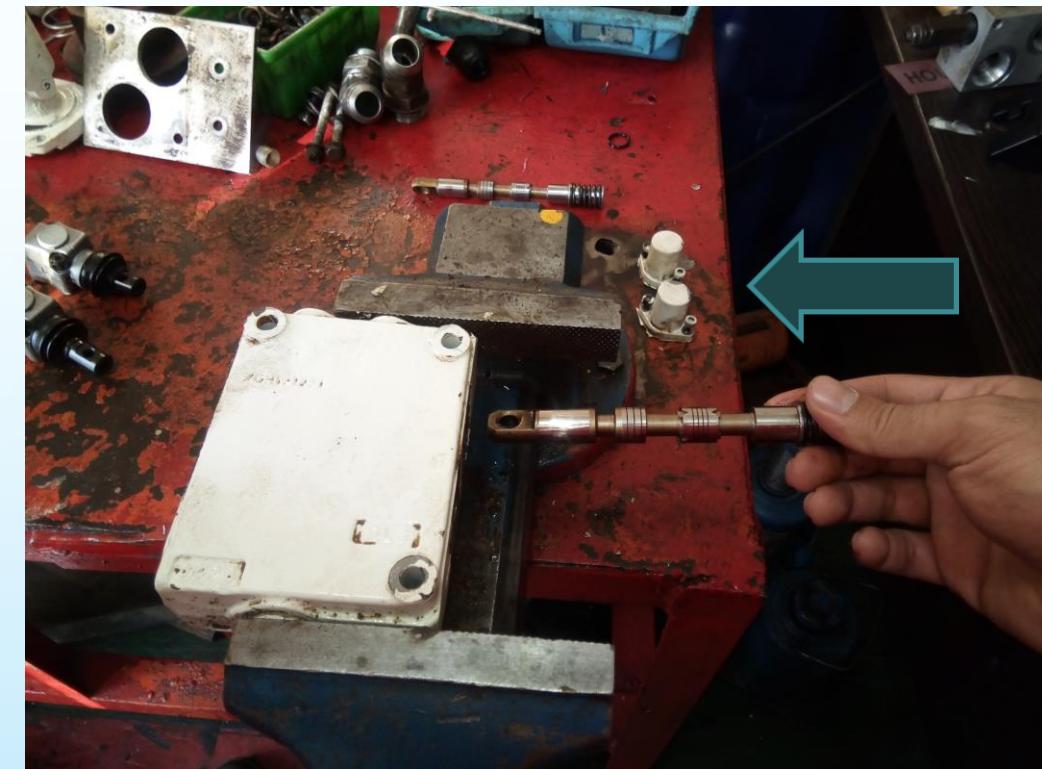
# Overseas Technical Services Kish

- Place valve body in the vice and Slide spools (6) over the valve body and turn them to place in proper position.

A



B





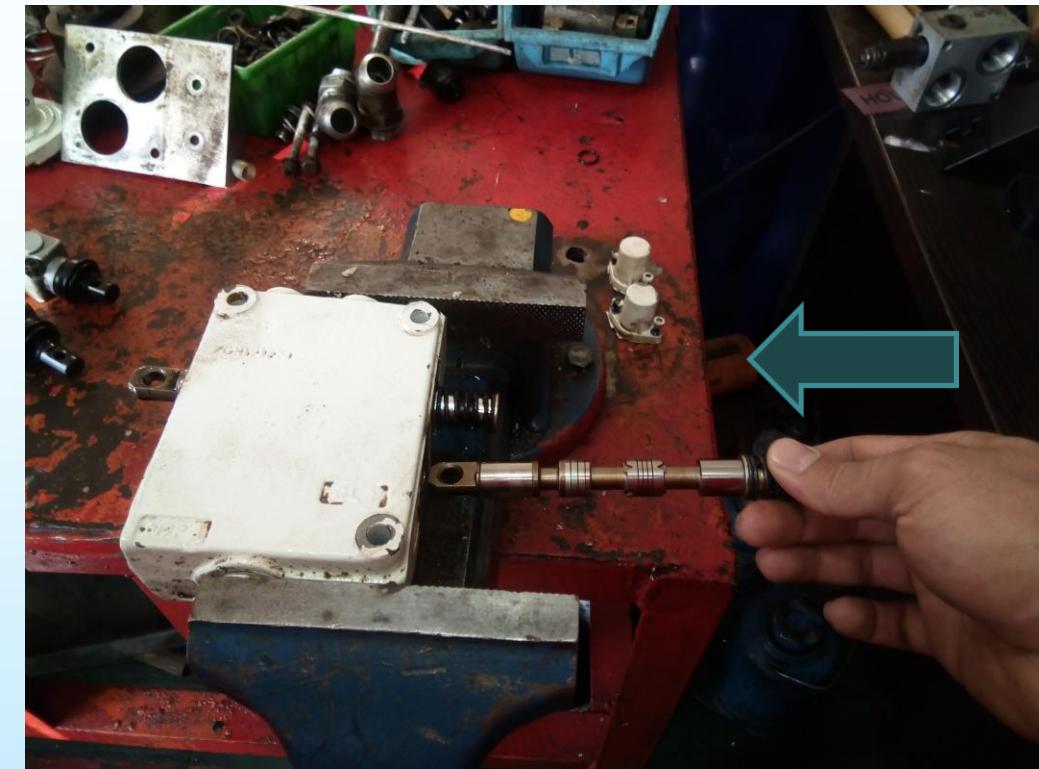
# Overseas Technical Services Kish

➤ Place valve body in the vice and Slide spools (6) over the valve body and turn them to place in proper position.

C



D





# Overseas Technical Services Kish

- Place valve body in the vice and Slide spools (6) over the valve body and turn them to place in proper position.



F

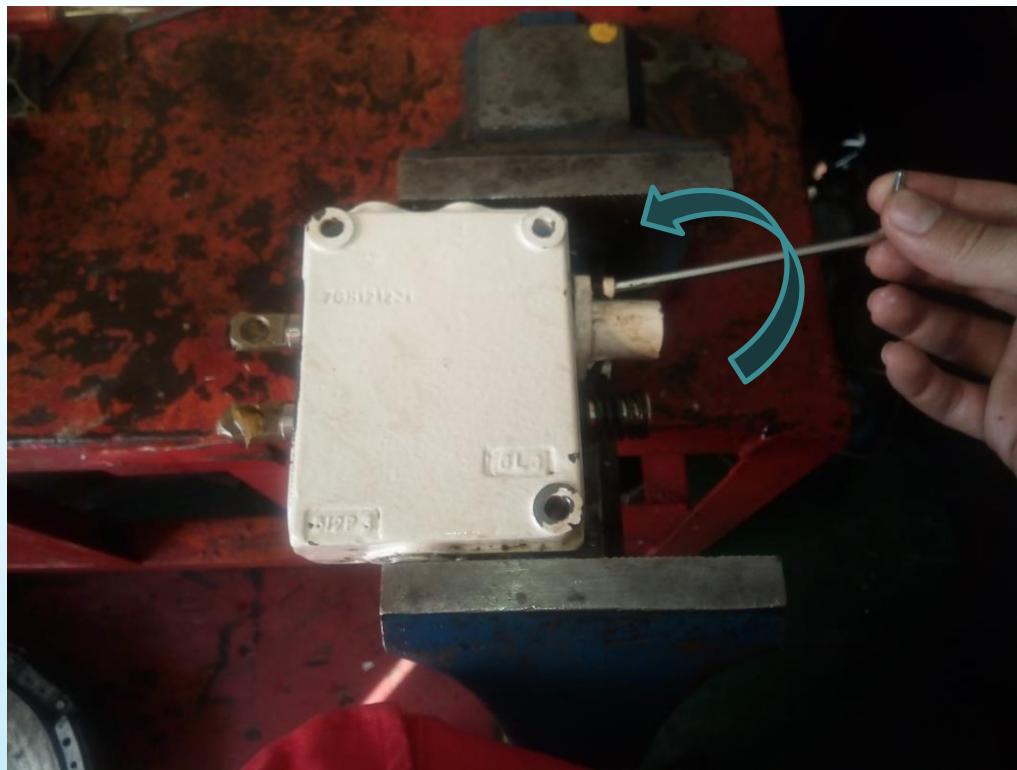




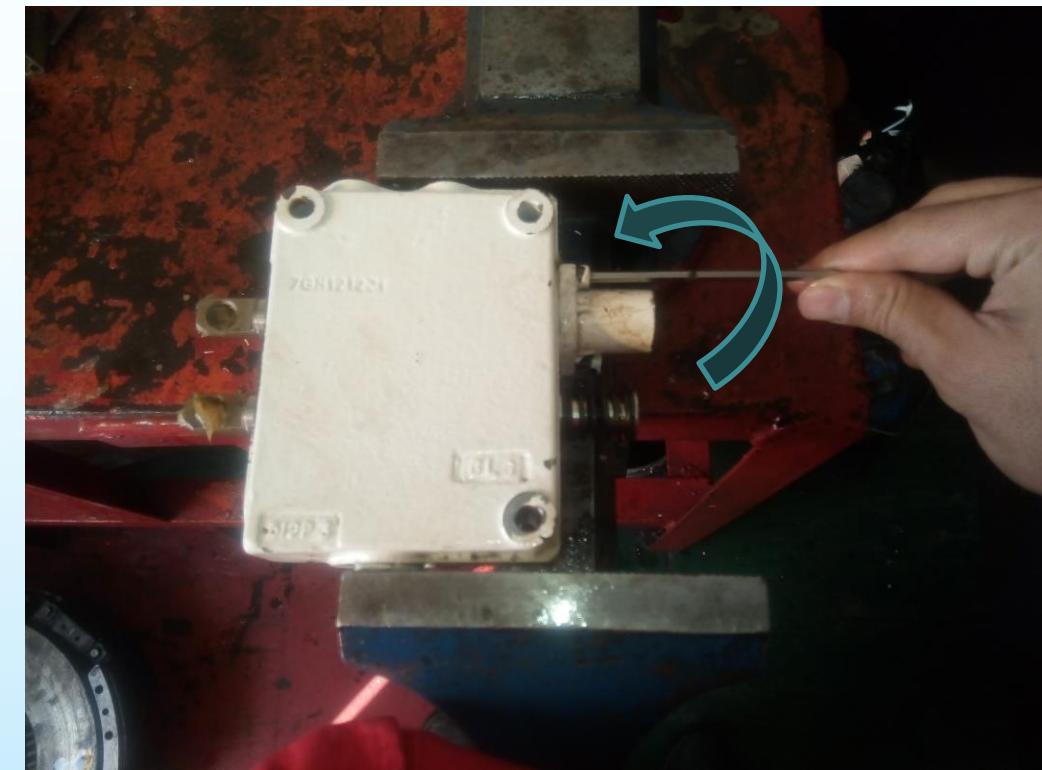
# Overseas Technical Services Kish

➤ Assemble Spring Cap (17) to the valve body.

A



B

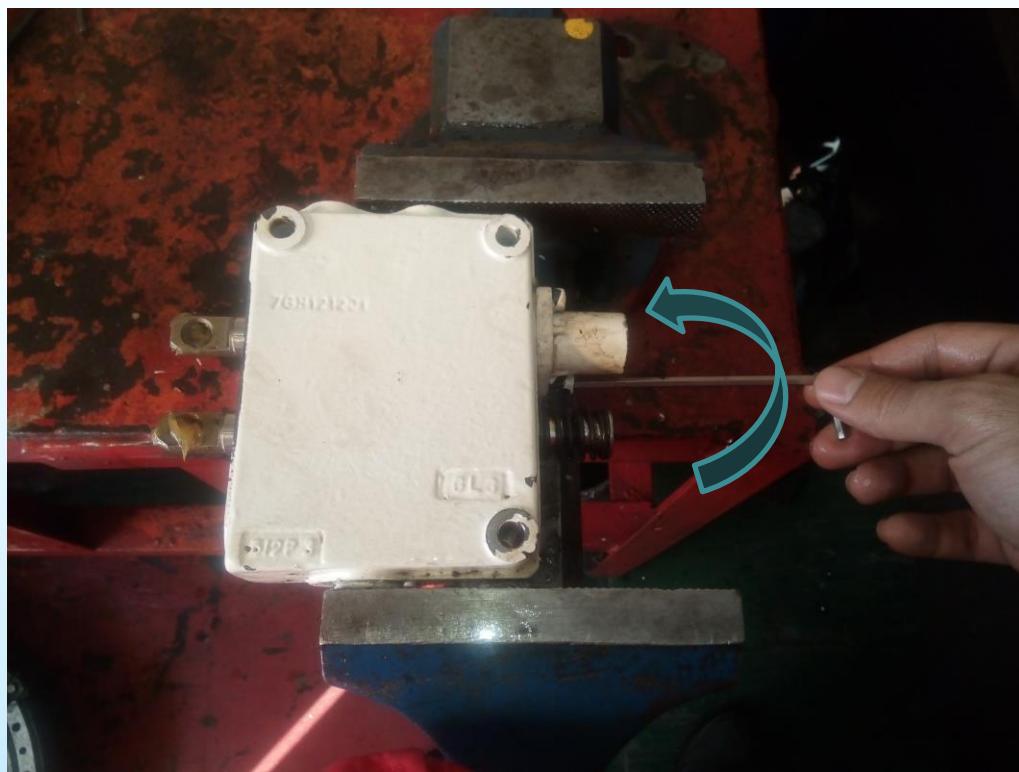




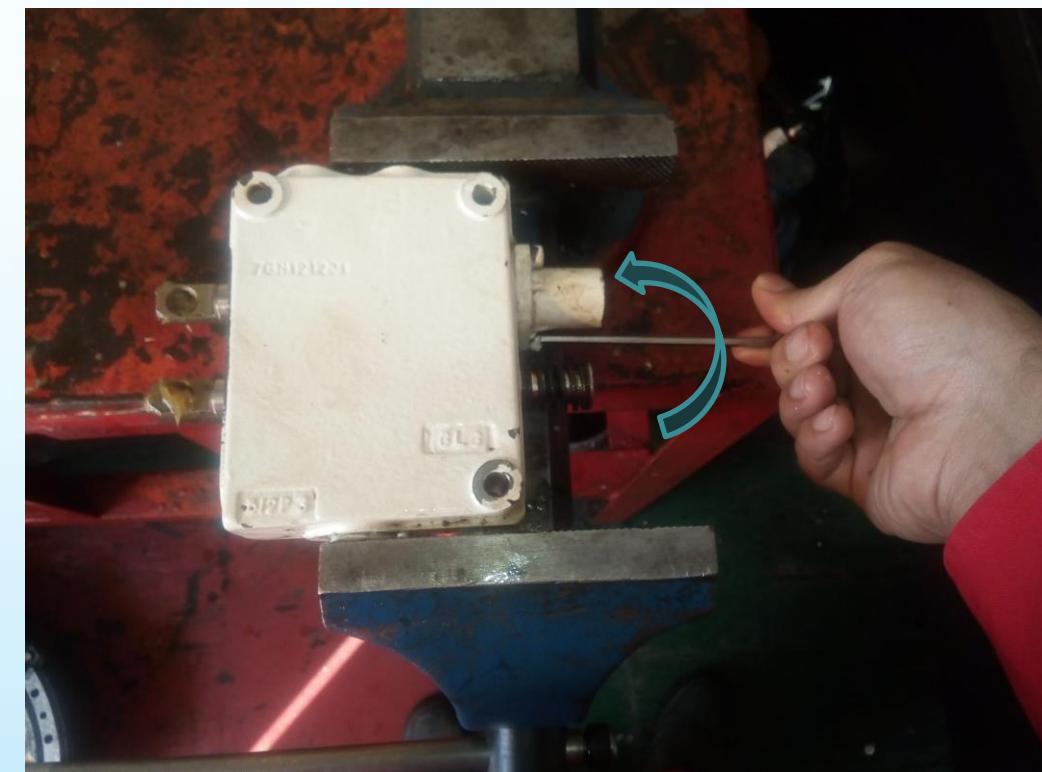
# Overseas Technical Services Kish

➤ Assemble Spring Cap (17) to the valve body.

C



D

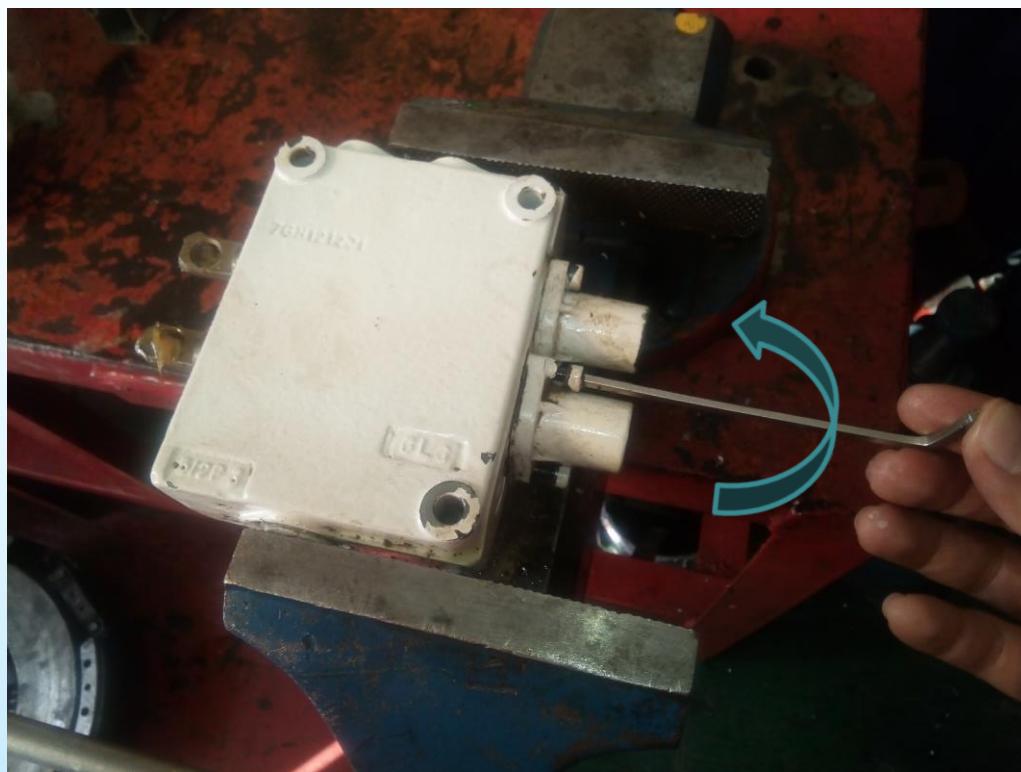




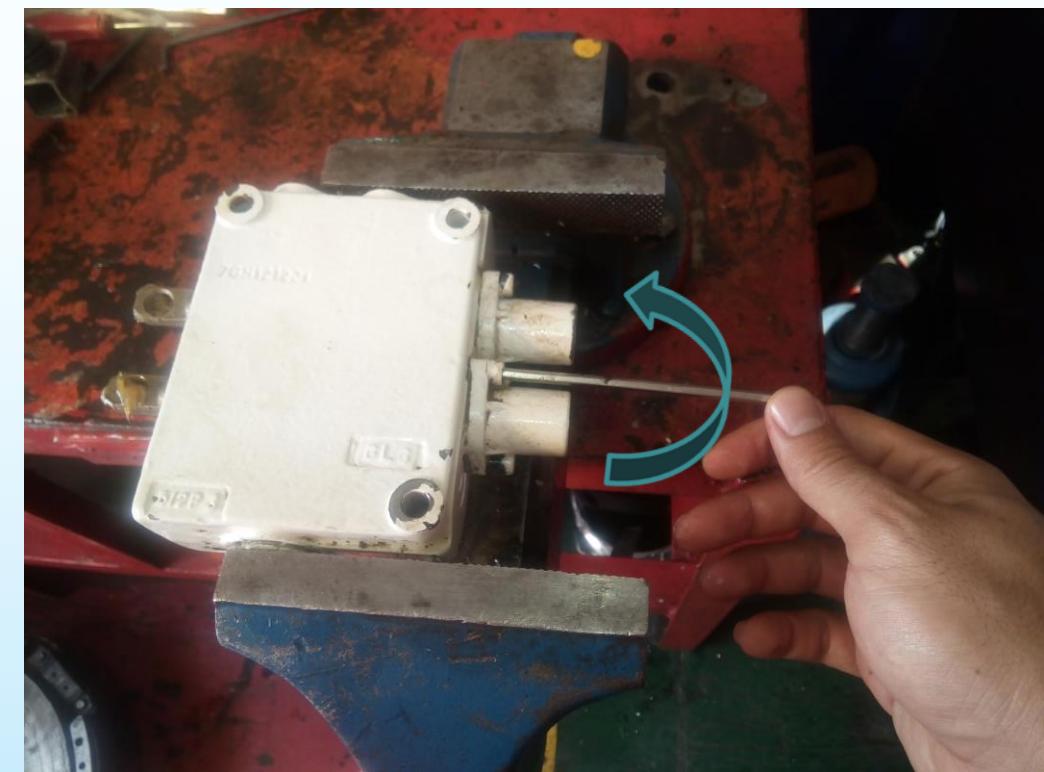
# Overseas Technical Services Kish

➤ Assemble Spring Cap (17) to the valve body.

E



F

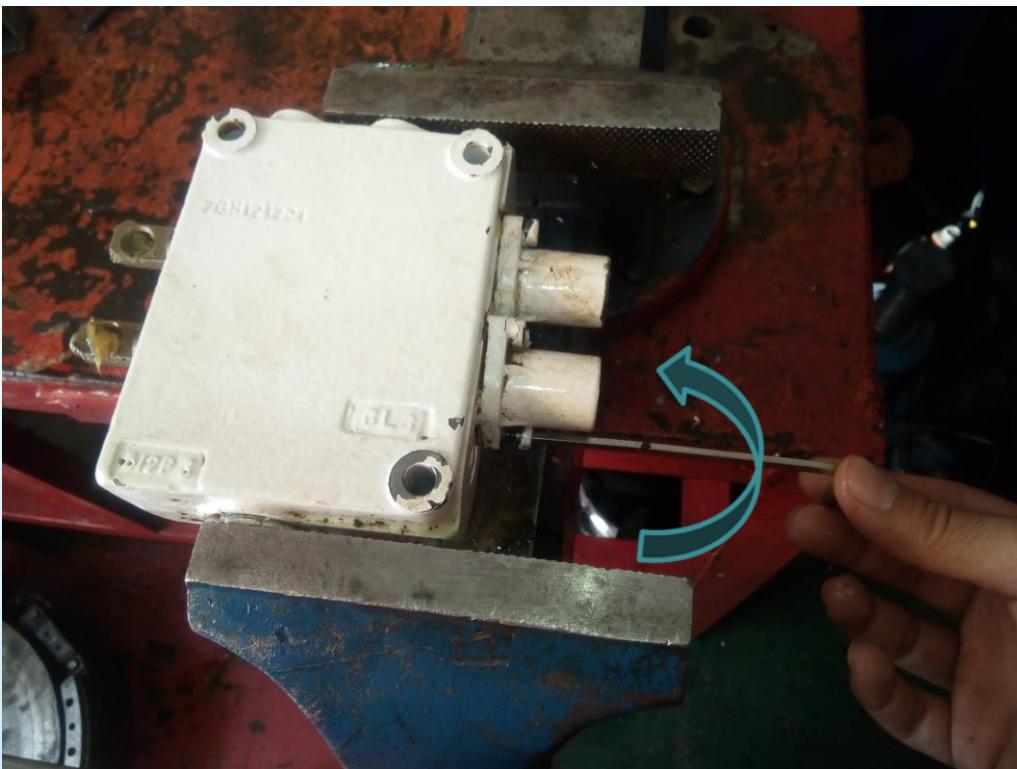




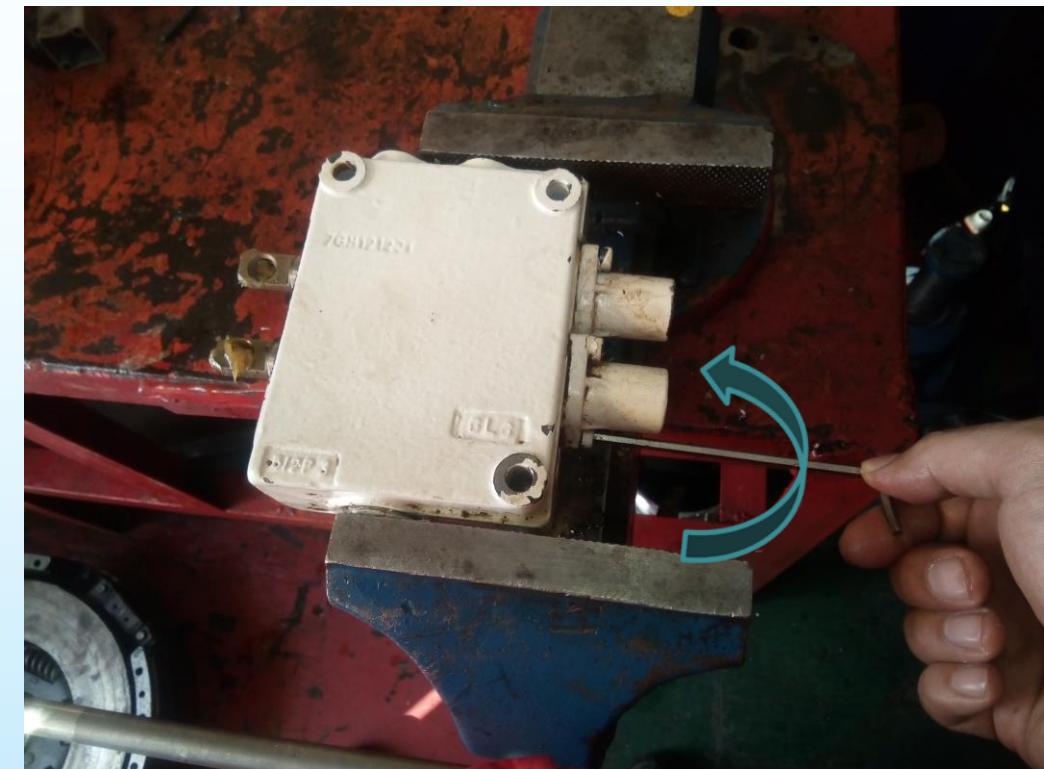
# Overseas Technical Services Kish

➤ Assemble Spring Cap (17) to the valve body.

G



H

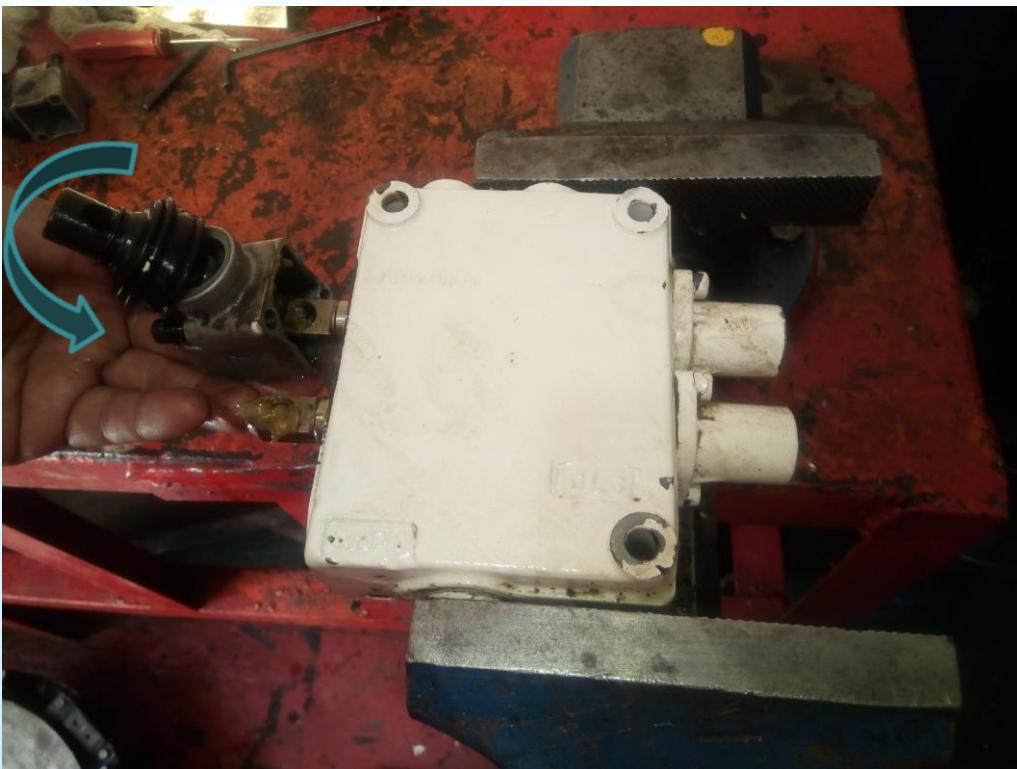




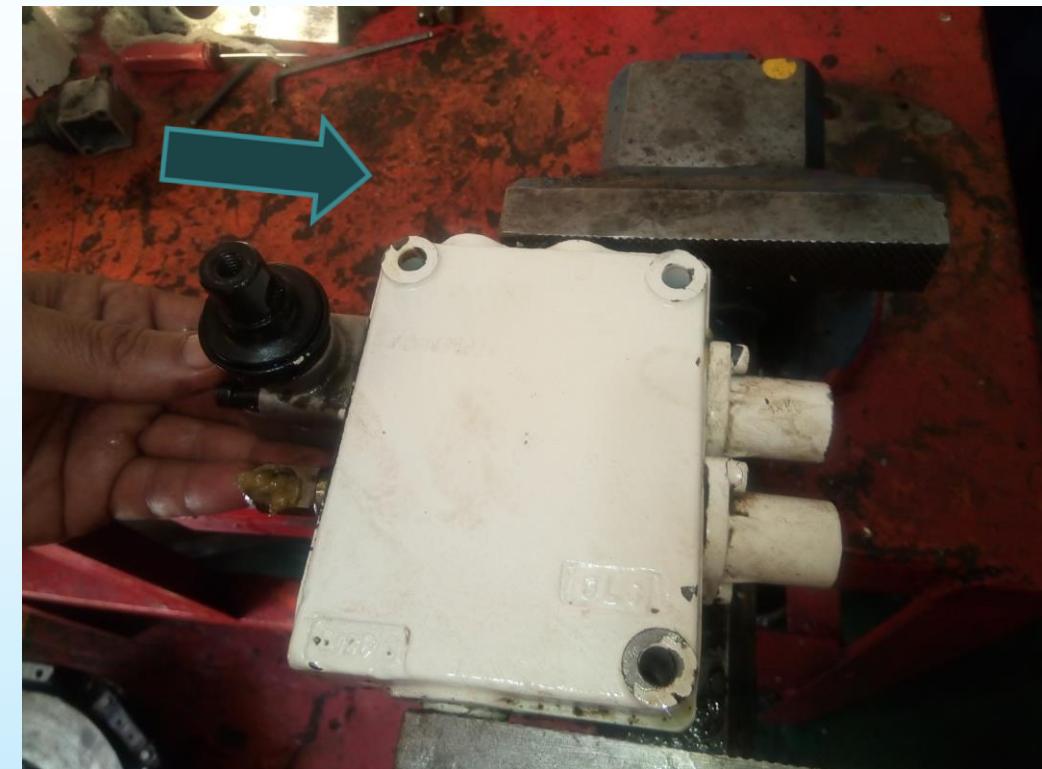
# Overseas Technical Services Kish

➤ Install lever box assembly (2) head to spool (6) and assemble it to the valve body.

A



B

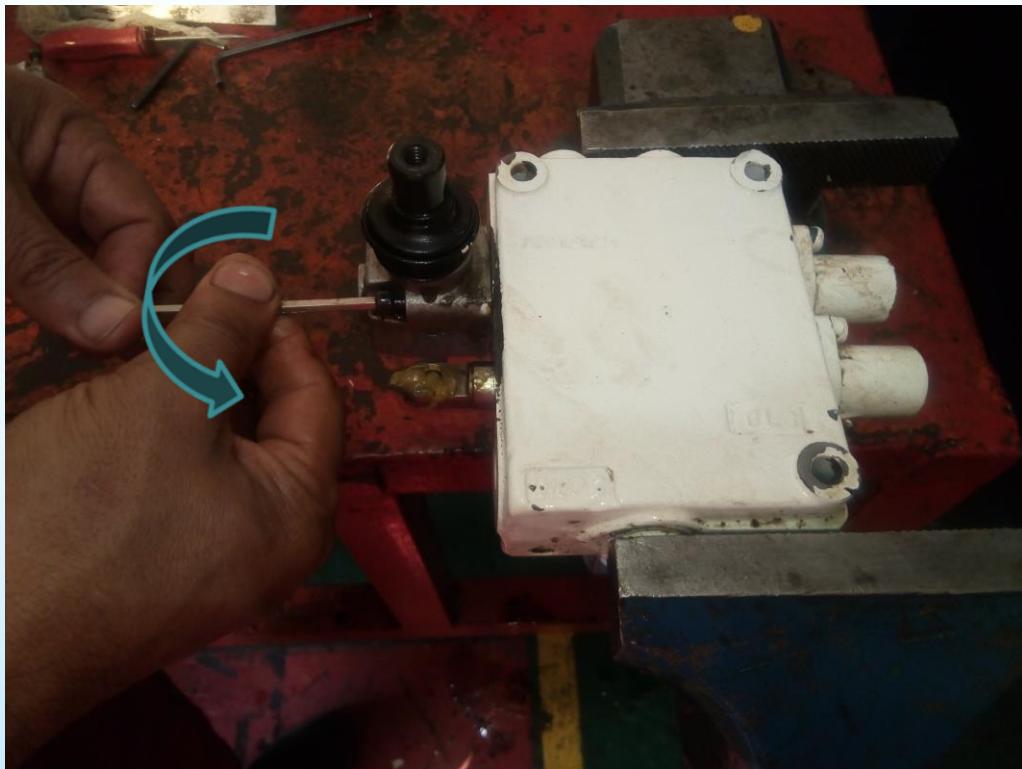




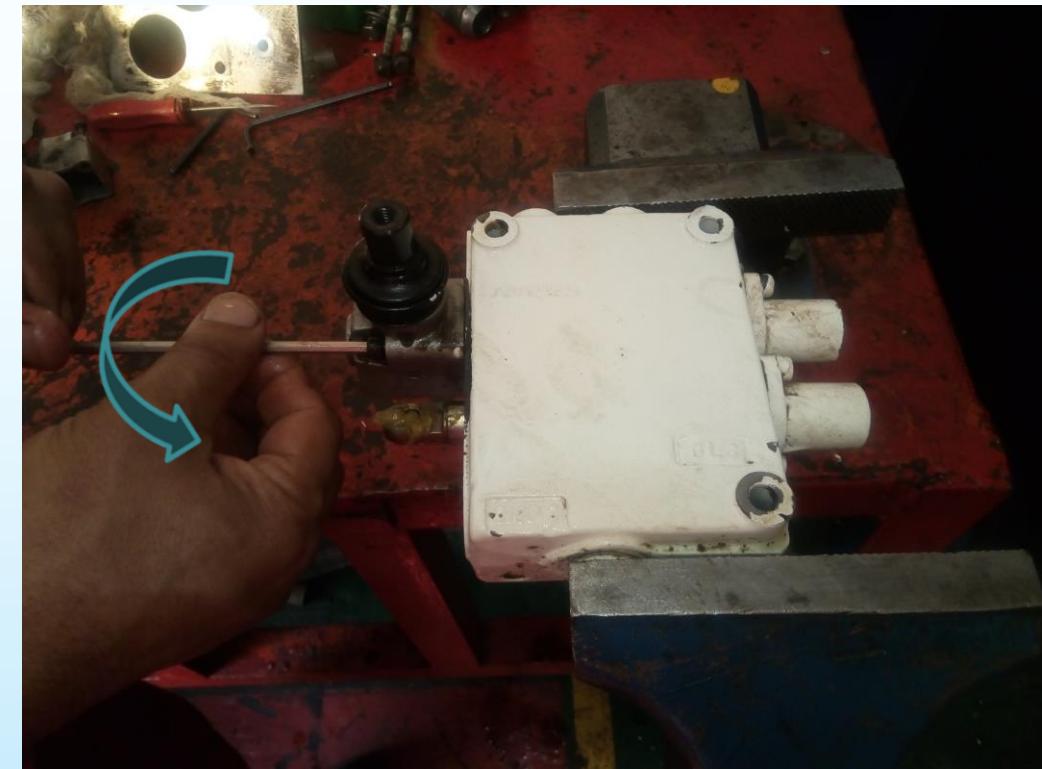
# Overseas Technical Services Kish

➤ Install lever box assembly (2) head to spool (6) and assemble it to the valve body.

E



F

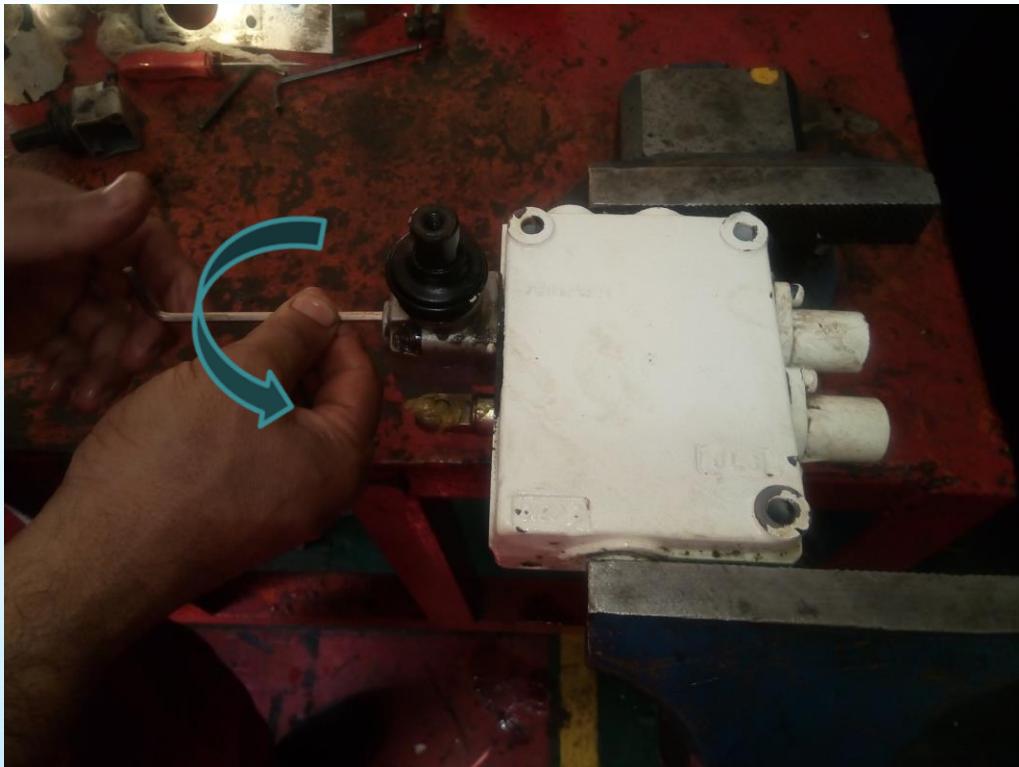




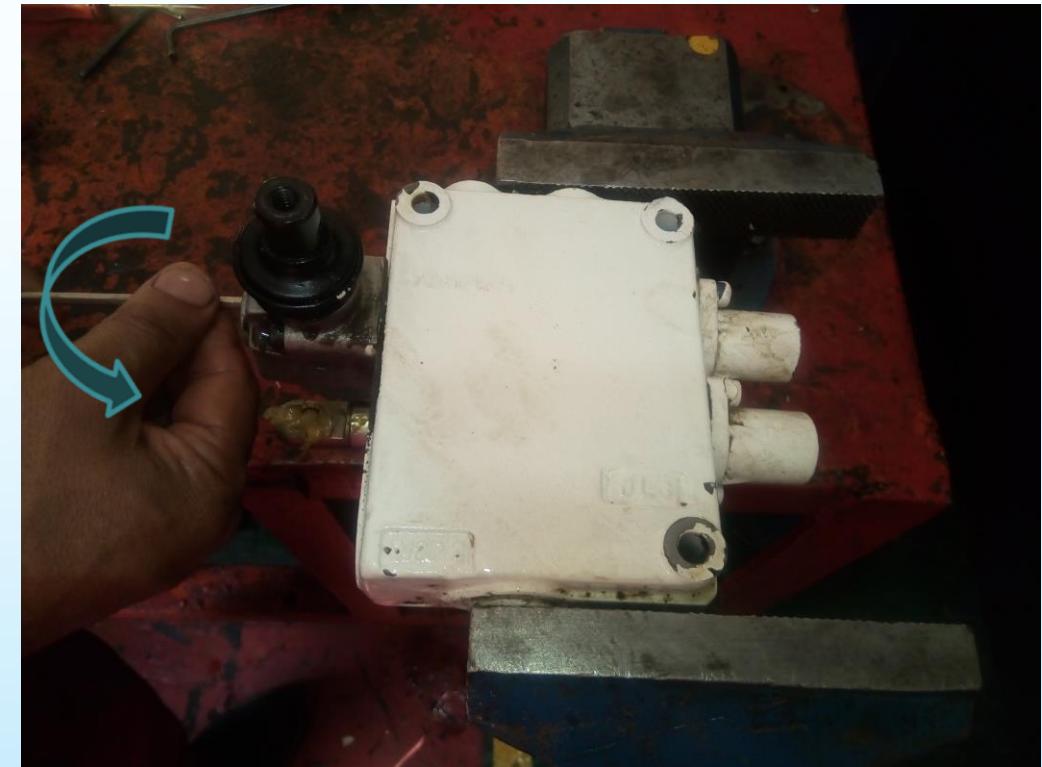
# Overseas Technical Services Kish

- Install lever box assembly (2) head to spool (6) and assemble it to the valve body.

G



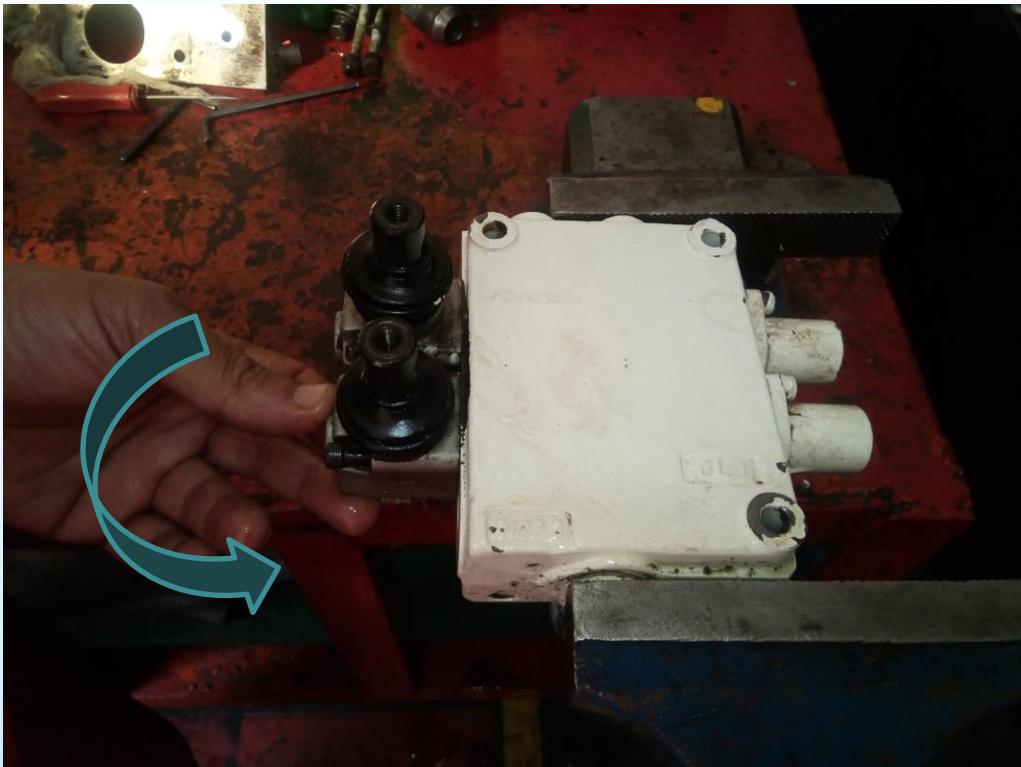
H



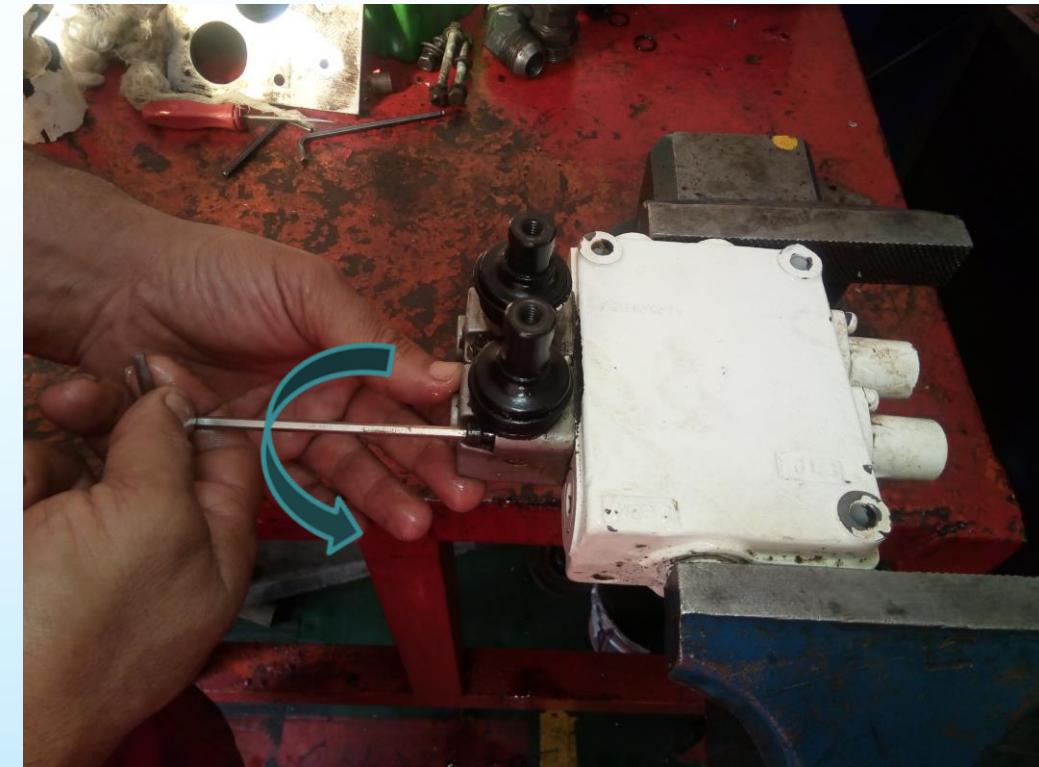


# Overseas Technical Services Kish

- Install lever box assembly (2) head to spool (6) and assemble it to the valve body.



I



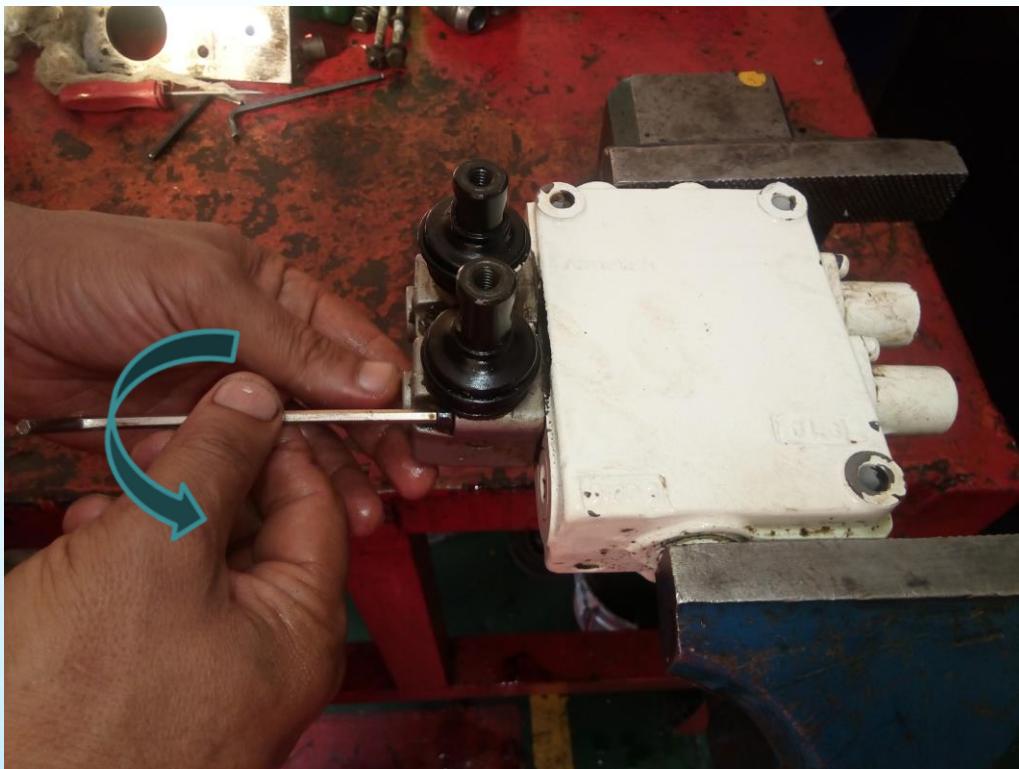
J



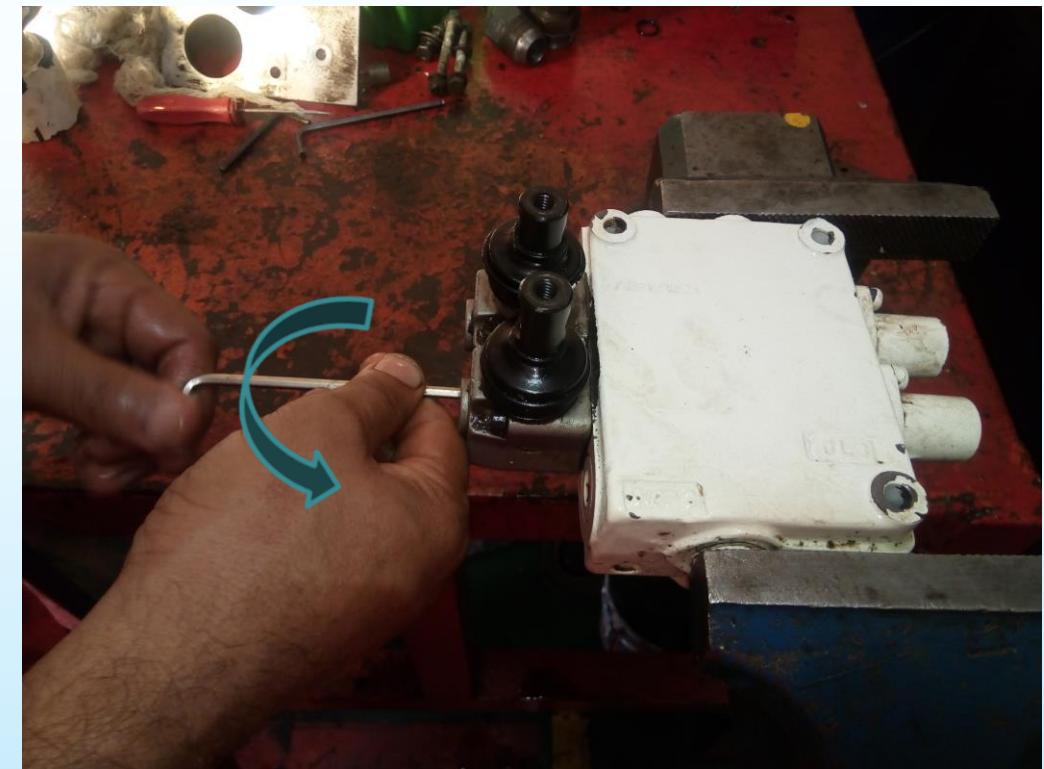
# Overseas Technical Services Kish

➤ Install lever box assembly (2) head to spool (6) and assemble it to the valve body.

K



L

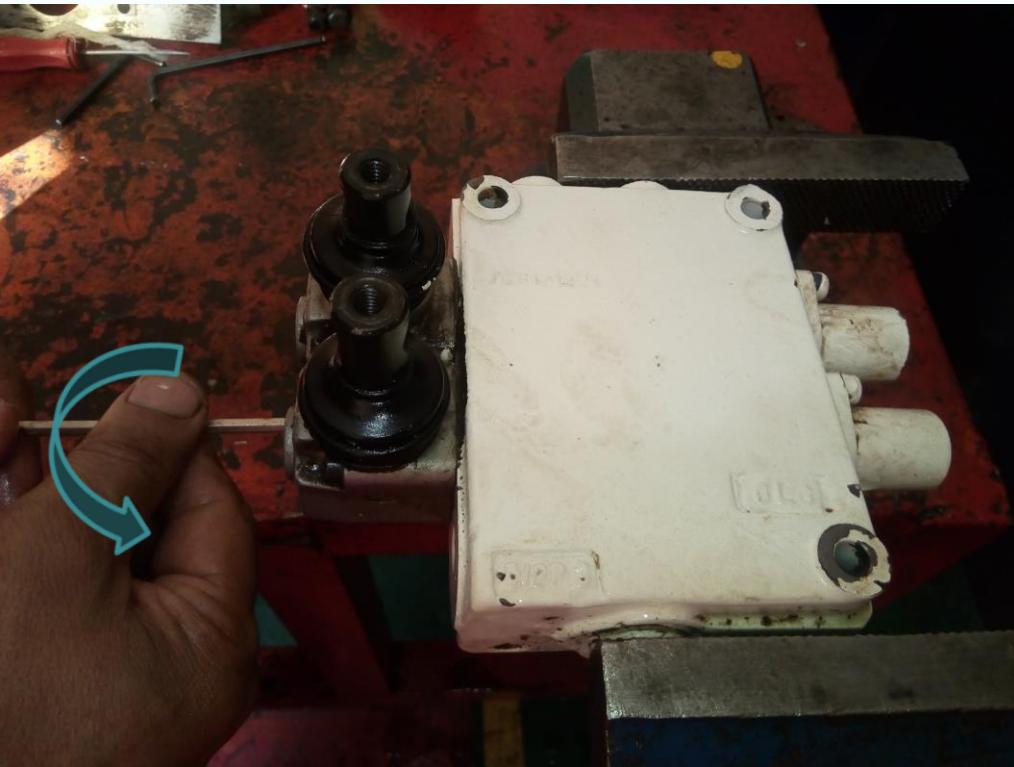




# Overseas Technical Services Kish

➤ Install lever box assembly (2) head to spool (6) and assemble it to the valve body.

M



N





# Overseas Technical Services Kish





**Overseas Technical Services Kish**



**Well Done!**