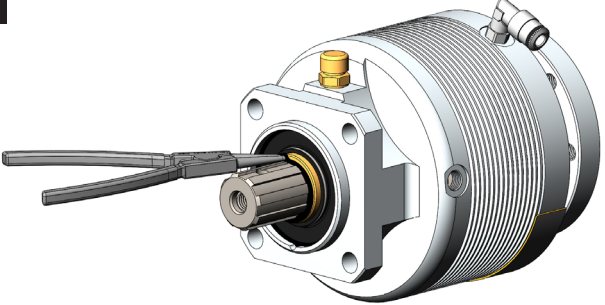
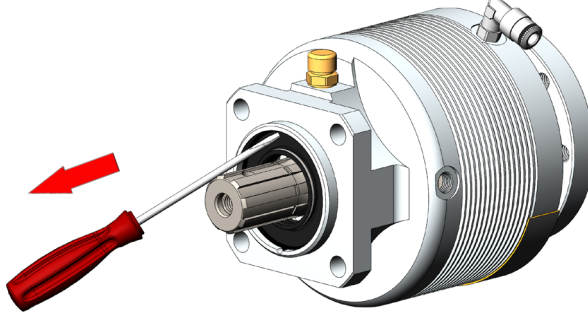
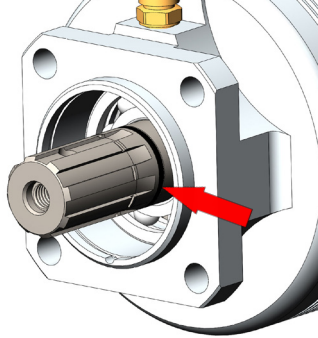
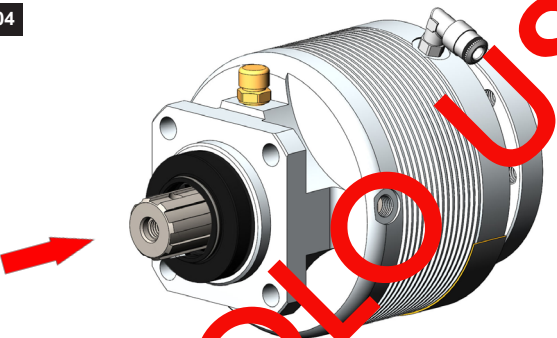


Sostituzione dischi frizione, guarnizioni, controllo cuscinetti e pulizia interna.

Ogni 2000 ore

01 	Togliere il seeger sull'albero facendo attenzione a non rovinarlo.
02 	Togliere l'anello elastico e il paraolio e controllare l'integrità del cuscinetto. Se deve essere sostituito, vedere pagina 7.
03 	Quella indicata è una guarnizione statica sotto la boccola ma, se vi è la necessità di sostituirla, bisogna smontare completamente tutta la frizione (seguendo le istruzioni del capitolo Sostituzione dei cuscinetti a pag. 7)
04 	Inserire il paraolio nuovo. KIT GUARNIZIONI codice 10399030053.

Data: Martedì 14 ottobre 2014

Codice foglio: 99700102005 Rev: //

pag.1

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HYDRAULIC COMPONENTS

O.M.F.B. S.p.A. Hydraulic Components

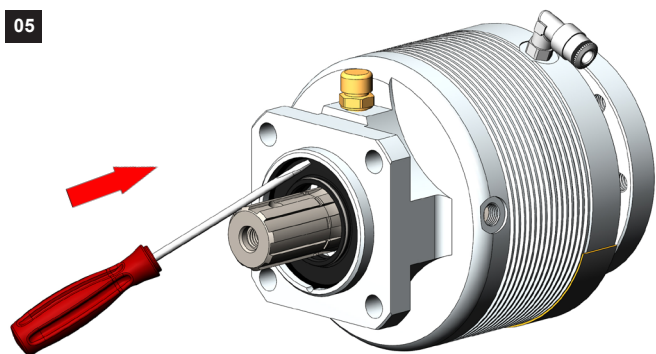
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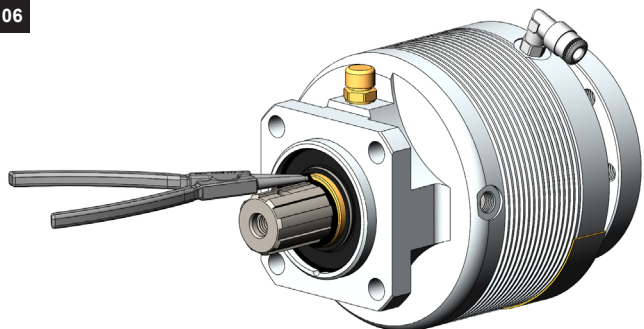
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05



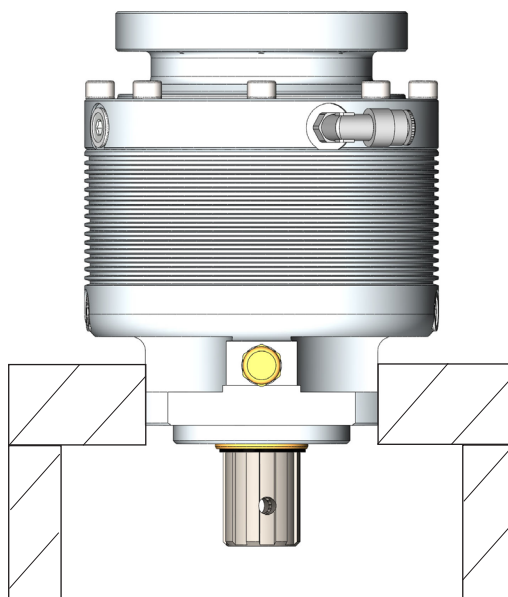
Inserire l'anello elastico.

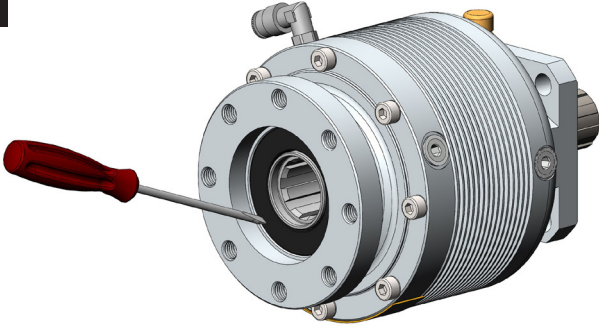
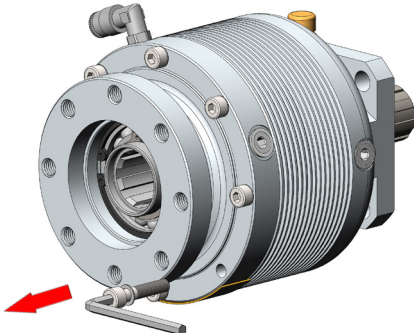
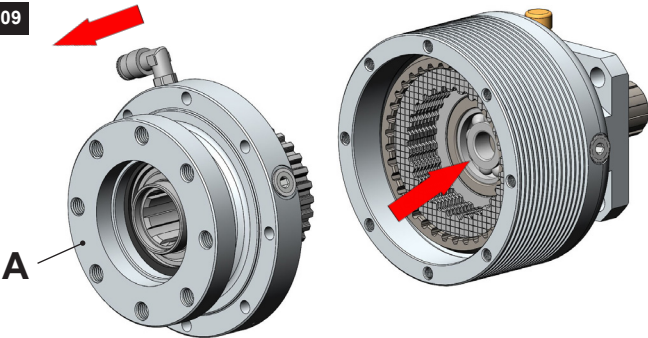
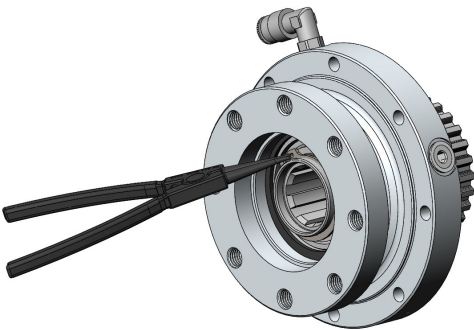
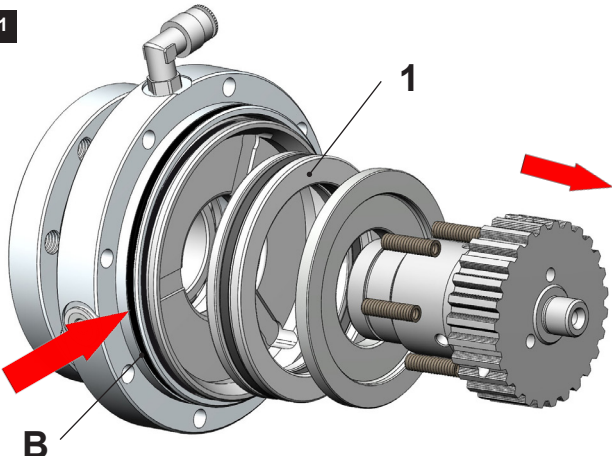
06

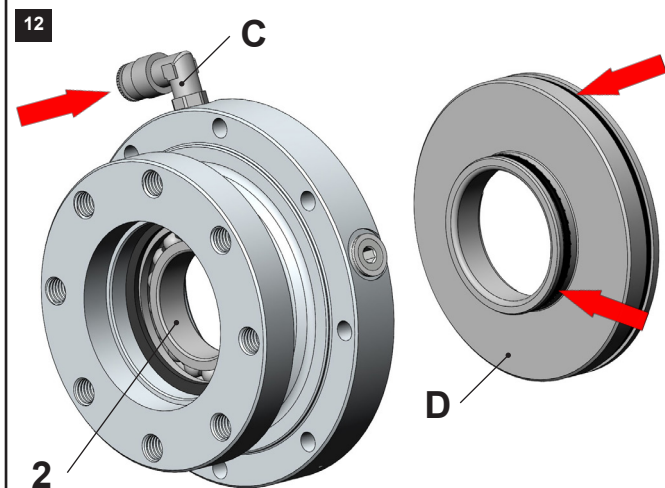


Rimettere il seeger. Se rovinato, sostituirlo.

Tutte le operazioni successive di controllo e sostituzione, andrebbero eseguite mettendo la frizione in morsa o almeno nella posizione indicata sotto.



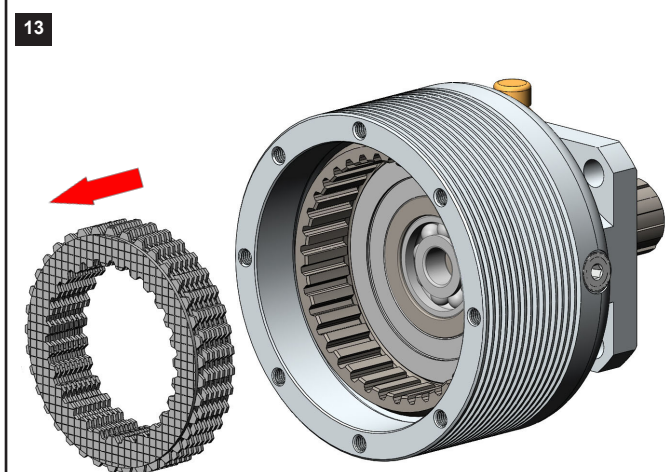
07 	Con un cacciavite estrarre il paraolio che andrà eliminato e sostituito in seguito con uno nuovo.
08 	Con una chiave a brugola svitare tutte le 8 viti TCE M8x40.
09 	Estrarre tutto il GRUPPO ANTERIORE completo (pos.A). Controllare l'integrità del cuscinetto sul fondo. Se deve essere sostituito, vedere pagina 7.
10 	Togliere il seeger sul mozzo facendo attenzione a non rovinarlo.
11 	Estrarre il GRUPPO MOZZO completo di molle, disco di spinta e cuscinetto assiale 1. Controllare la guarnizione indicata B e, se danneggiata o usurata, sostituirla. KIT GUARNIZIONI codice 10399030053. Controllare l'integrità del cuscinetto assiale 1. Se deve essere sostituito, vedere pagina 7.



Soffiare aria nel raccordo **C** ed estrarre il particolare **D**. Controllare quindi le 2 guarnizioni indicate e, se danneggiate o usurate, sostituirle.

KIT GUARNIZIONI codice 10399030053.

Controllare l'integrità del cuscinetto **2**. Se deve essere sostituito, vedere pagina 7.



Estrarre tutti dischi e, se danneggiati o usurati, sostituirli.

KIT DISCHI codice 10399010057.

A questo punto sono stati controllati ed eventualmente sostituiti i dischi e tutte le guarnizioni.

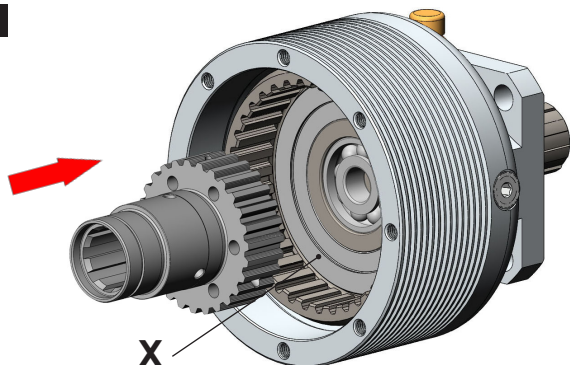
Rimontaggio frizione



Durante tutte le operazioni, soffiare gli elementi con aria compressa e pulire accuratamente dove necessario.



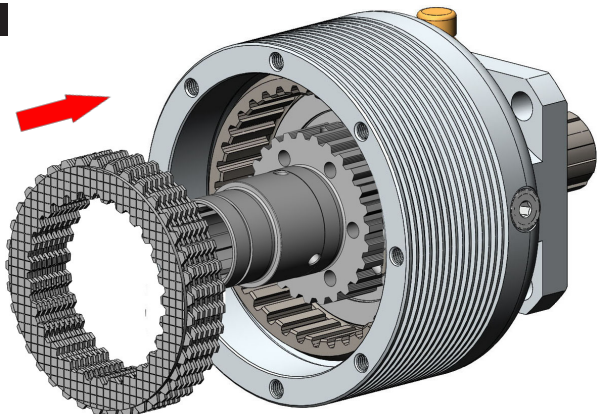
01



Rimontare mozzo.

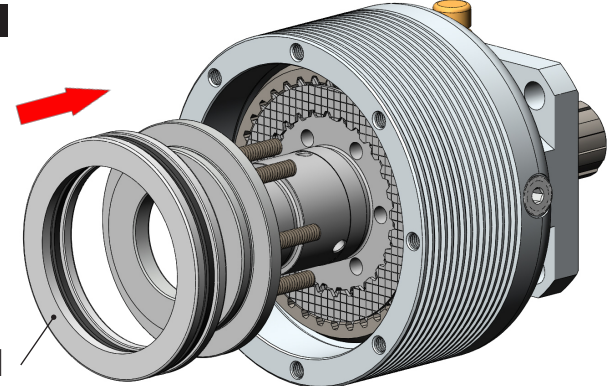
N.B. Controllare che il disco reazione indicato con la **X** sia rimasto in posizione, altrimenti rimetterlo in sede.

02



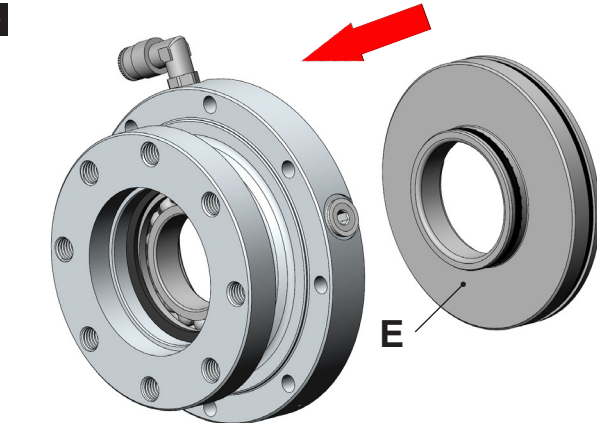
Inserire i dischi facendo attenzione all'allineamento tra i denti esterni e quelli interni.

03

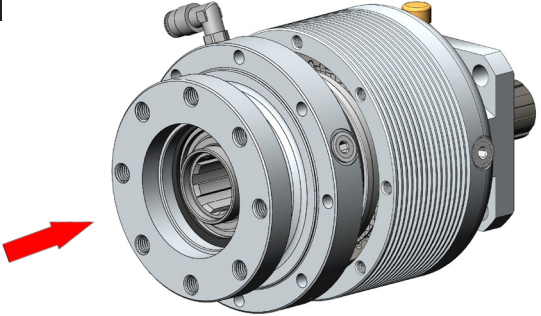
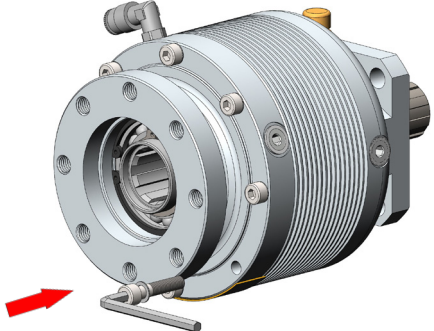
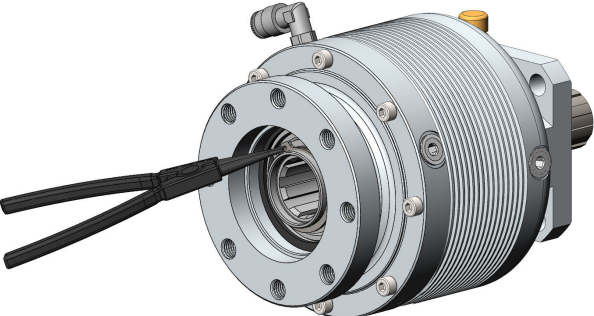
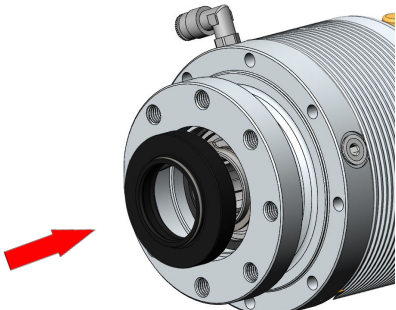


Reinserire le molle, il disco di spinta ed il cuscinetto assiale **1**.

04



Reinserire il particolare **E** nella sua sede.

05 	Inserire tutto il GRUPPO ANTERIORE.
06 	Con una chiave a brugola riavvitare tutte le 8 viti TCE M8x40. Coppia di serraggio 25 Nm.
07 	Rimettere il seeger sul mozzo. Se danneggiato, sostituirlo.
08 	Mettere il paraolio nuovo. KIT GUARNIZIONI codice 10399030053.

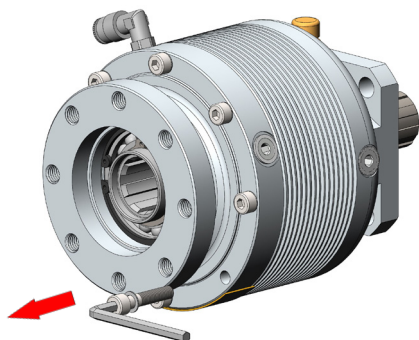
Data: Martedì 14 ottobre 2014

Codice foglio: 99700102005 Rev: //

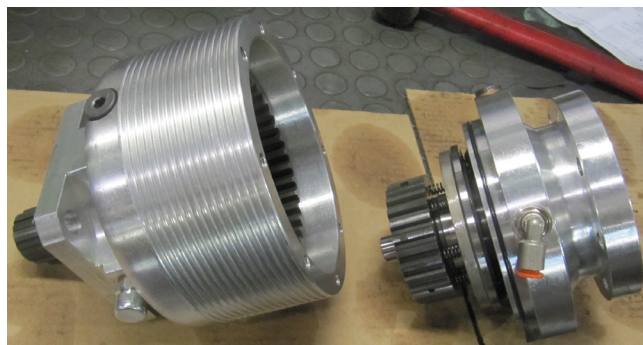
Sostituzione dei cuscinetti. Smontaggio

Ogni 4000 ore

01



Con una chiave a brugola svitare tutte le 8 viti TCE M8x40.



02



Togliere l'anello seeger sull'albero e l'anello elastico indicati.

03



Togliere il paraolio che andrà sostituito.

Data: Martedì 14 ottobre 2014

Codice foglio: 99700102005 Rev: //

pag.7

O.M.F.B. Hydraulic Components

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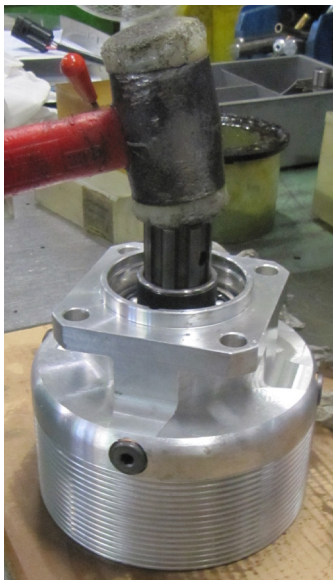
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04



Con una mazzuola di plastica, battere sull'albero fino a che fuoriesce sotto.

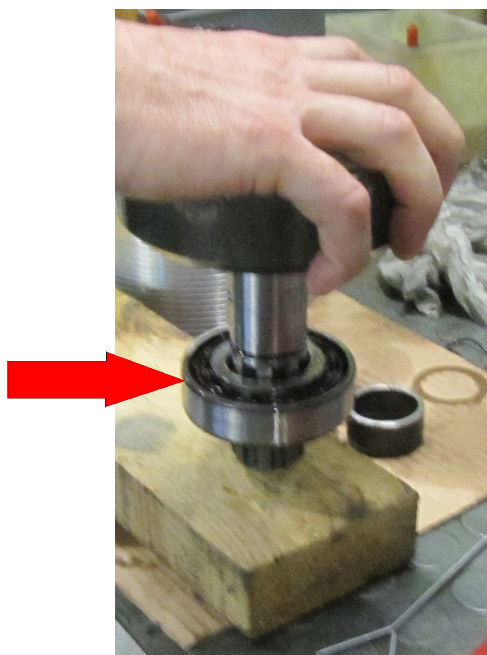


05



Rimuovere il cuscinetto indicato da sostituire.

06



Per non rovinare l'albero, appoggiarsi su un piano di legno e picchiare l'albero stesso fino a che il cuscinetto indicato e da sostituire si sfilà.

Data: Martedì 14 ottobre 2014

Codice foglio: 99700102005 Rev: //

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HYDRAULIC COMPONENTS

pag. 8

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07

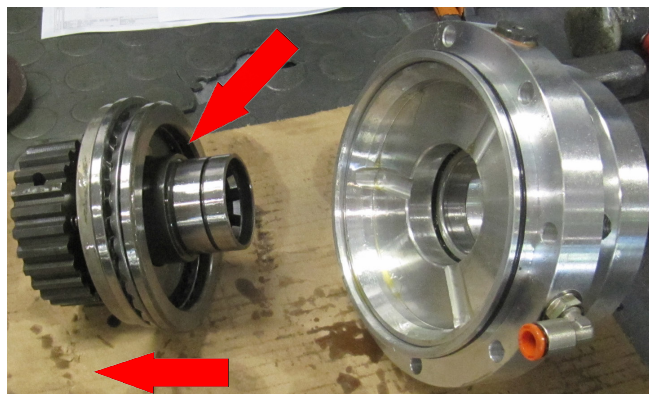


Sempre sul pezzo di legno, picchiare la parte opposta dell'albero in modo da far uscire il cuscinetto all'interno da sostituire.

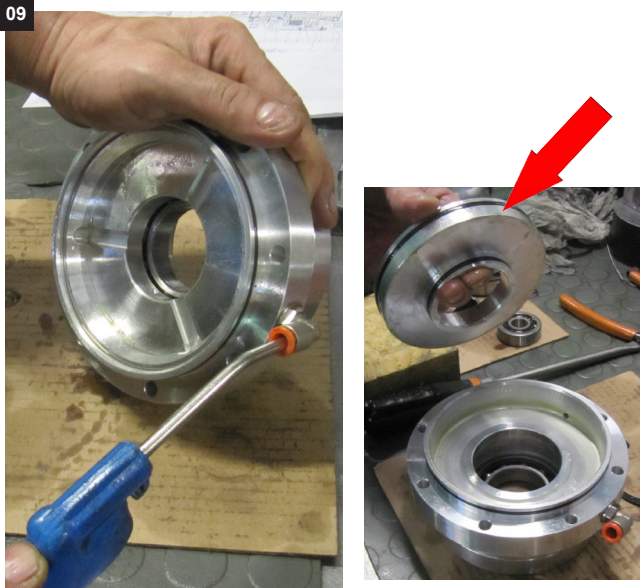
08



Prendiamo l'altra parte divisa all'operazione 01 e togliamo il seeger del mozzo e quindi il gruppo mozzo completo. Togliamo anche il cuscinetto assiale da sostituire.

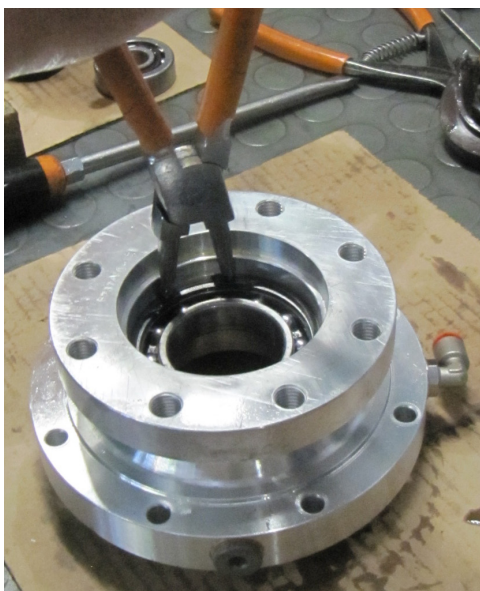


09



Soffiare aria e togliere il particolare indicato.

10



Capovolgere il pezzo e togliere l'anello seeger che tiene il cuscinetto.

11



Estrarre il cuscinetto da sostituire.

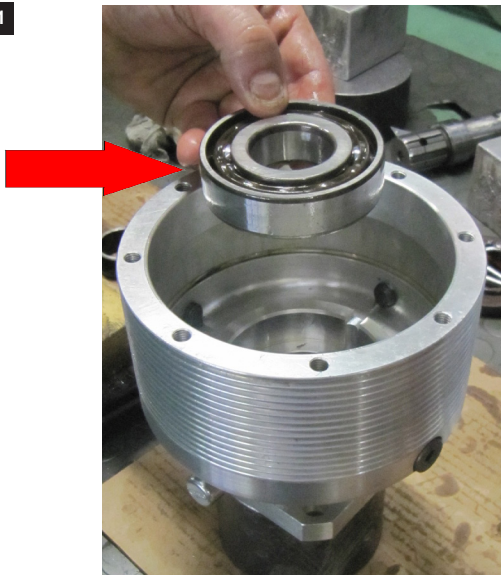
**A questo punto sono stati tolti tutti i cuscinetti da sostituire.
KIT CUSCINETTI codice 10399020055.**

Data: Martedì 14 ottobre 2014

Codice foglio: 99700102005 Rev: //

Rimontaggio frizione con cuscinetti nuovi.

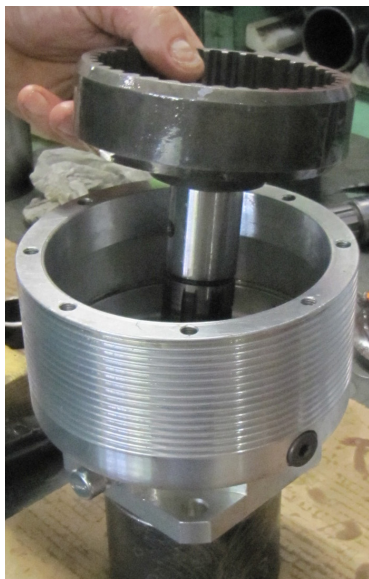
01



Inserire il nuovo cuscinetto e spingerlo in sede.

KIT CUSCINETTI
codice 10399020055.

02



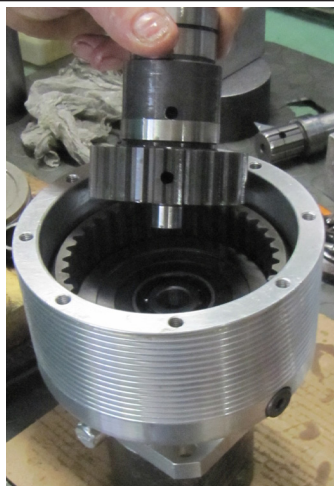
Inserire l'albero ed il suo cuscinetto nuovo sul fondo.

X



N.B. Controllare che il disco reazione indicato con la **X** sia rimasto in posizione, altrimenti rimetterlo in sede.

03



Inserire il mozzo e le molle.

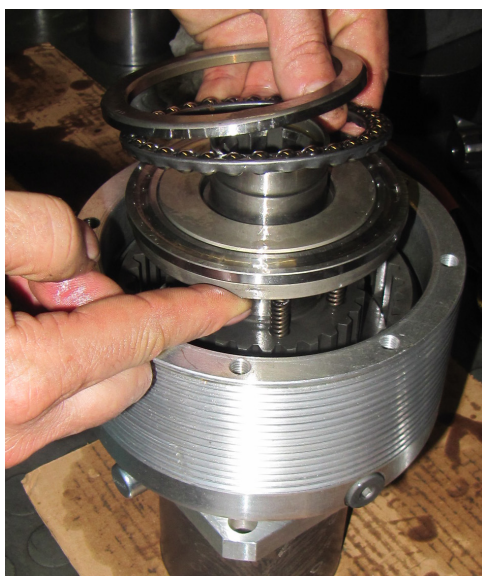


04



Inserire in serie alternata dischi di spinta e dischi di attrito.

05



Montare in serie il disco di spinta ed il cuscinetto assiale nuovo.
KIT CUSCINETTI codice 10399020055.



06



Nell'altra parte, inserire il pistone indicato.

Data: Martedì 14 ottobre 2014

Codice foglio: 99700102005 Rev: //

07



Accoppiare quest'ultima parte con quella precedentemente assemblata ed avvitare tutte le 8 viti con coppia di serraggio di 25Nm.

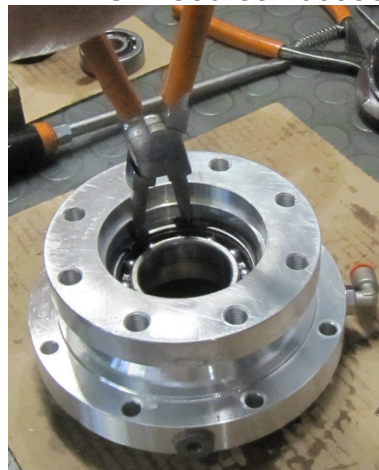


08



Inserire il nuovo cuscinetto ed in serie il seeger sul mozzo, il seeger del cuscinetto ed un nuovo paraolio.

KIT GUARNIZIONI codice 10399030053.



KIT CUSCINETTI codice 10399020055.

09



Girare la frizione ed inserire il nuovo cuscinetto in sede.

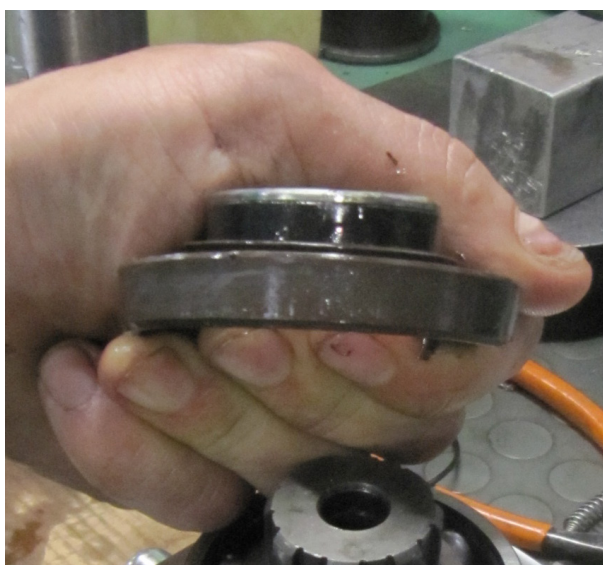
KIT CUSCINETTI codice 10399020055.

10



Inserire l'OR nuovo sull'albero.
KIT GUARNIZIONI codice 10399030053.

11



Inserire PRIMA la boccola nel paraolio.

12



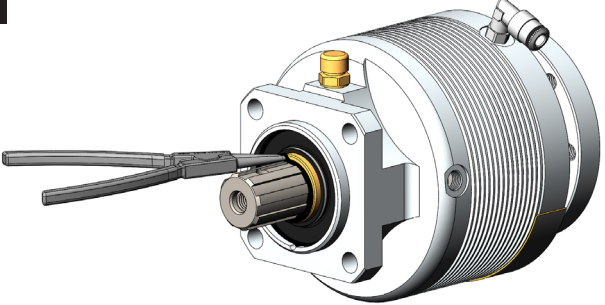
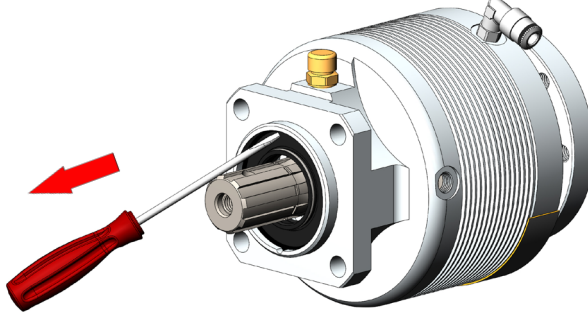
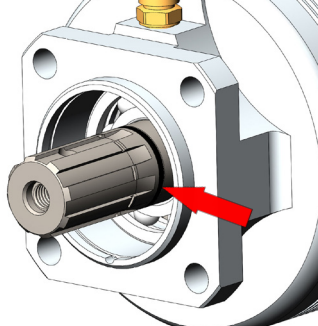
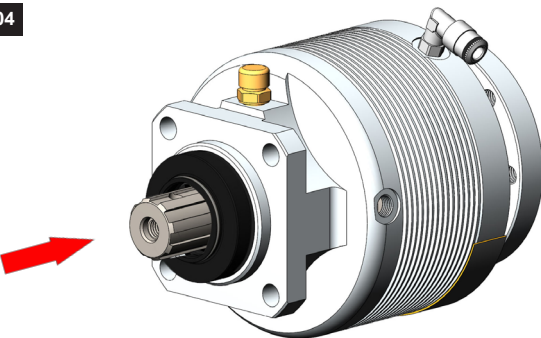
Inserire quindi entrambi sull'albero e, picchiet-
 tando un pò su uno e un pò sull'altro, senza
 però farli separare, portarli in sede terminando
 il rimontaggio.

Data: Martedì 14 ottobre 2014

Codice foglio: 99700102005 Rev: //

Replacement of disks, gaskets, bearings inspection and internal cleaning.

Every 2000 hours

01 	Remove the Seeager ring on the output shaft ensuring not to damage it.
02 	Remove elastic ring and oil seal. Check the integrity status of the bearing (see page 15, position 11), in case you need to replace it see page 21.
03 	The one indicated in the picture is a static gasket placed under the bushing. In case you need to replace it you need to disassemble completely the Slick Shift by following the instructions "Bearings replacement" on page 21.
04 	Place the new Oil Seal. Seal Kit code 10399030053.

Data: Martedì 14 ottobre 2014

Codice foglio: 99700102005 Rev: //

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HYDRAULIC COMPONENTS

O.M.F.B. S.p.A. Hydraulic Components

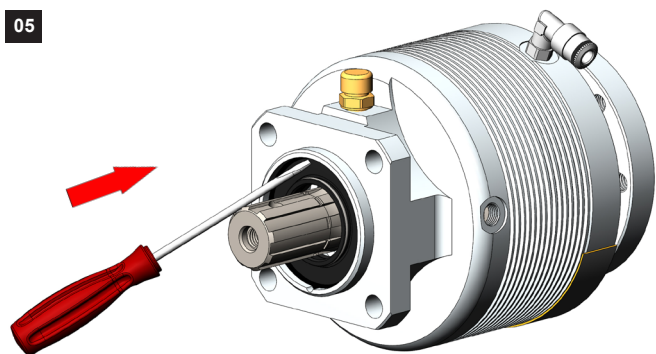
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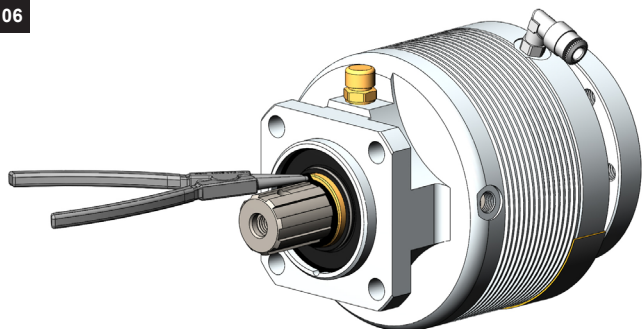
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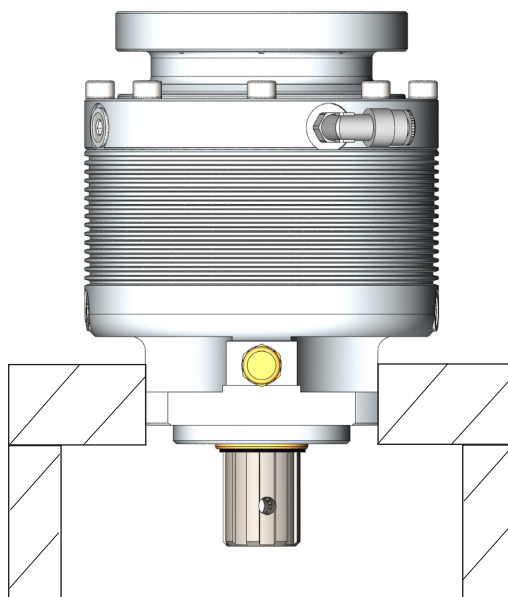
Place the elastic ring.

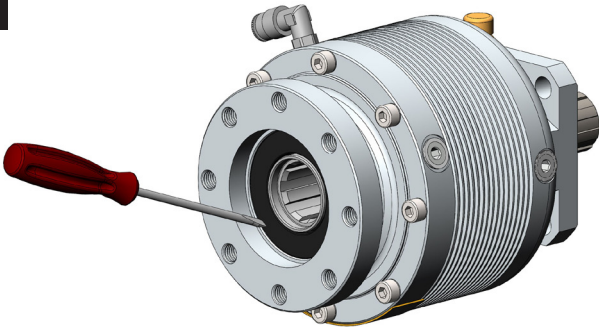
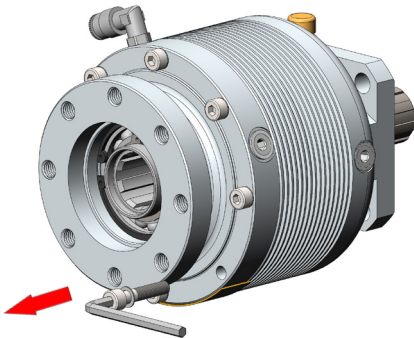
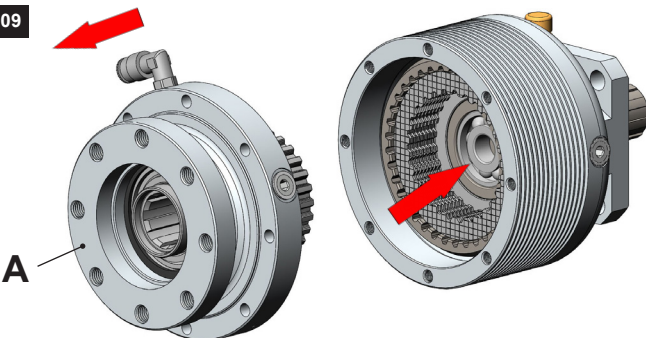
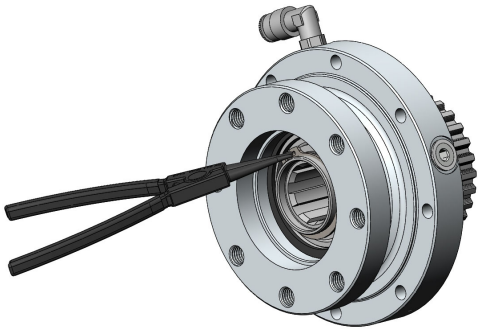
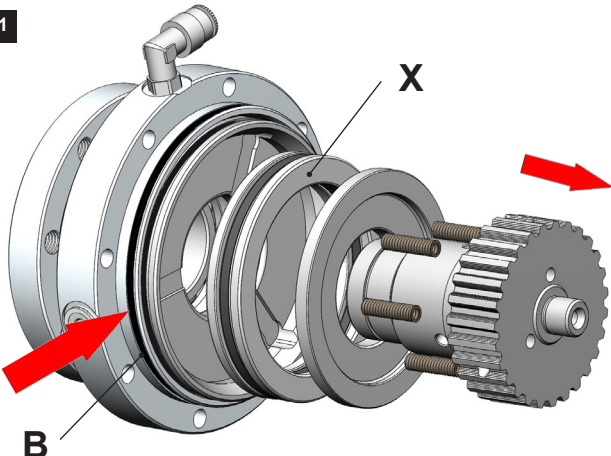
06

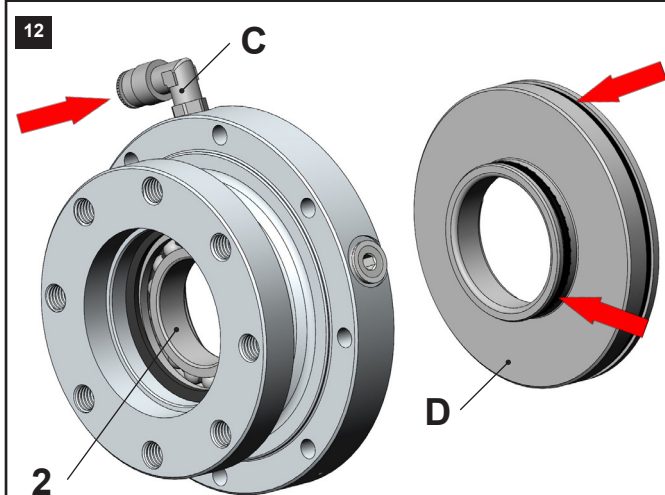


Place again the Seeger Ring. In case it got damaged it must be replaced!

Every operation that follows should be executed with the Slick Shift unit firmly fixed on a clamp as shown in below picture.



07 	Remove the oil seal by means of a screwdriver. The oil seal must be replaced with a brand new one.
08 	Unscrew all the 8 TCE M8x40 screws by means of an Allen Key.
09 	Extract the whole FRONT BODY (position A). Check the integrity of the bearing (see page 15, position 18) placed at the bottom of the REAR BODY. In case you need to replace it, see page 21.
10 	Remove the Seeger ring ensuring not to damage it.
11 	Extract the HUB UNIT including springs, "pressure disk" and axial bearing X. Check the gasket in position B and replace it in case you find it damaged or worn out. Seal Kit code 10399030053. Check the integrity of the axial bearing X. If you need to replace it see page 21.

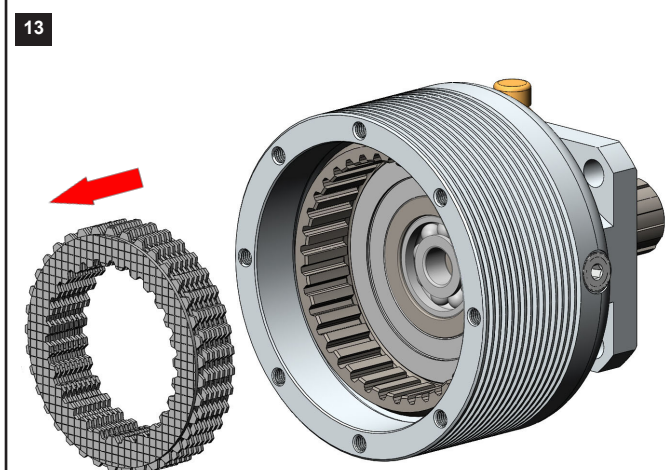


Blew air into fitting **C** and extract the item **D**.

Check the 2 gaskets indicated in the picture and replace them in case they are damaged or worn out.

Seal Kit code 10399030053.

Check the integrity of bearing **2**.
If you need to replace it see page 21.



Extract all the disks and check them **CAREFULLY**. In case they are even slightly damaged or worn out they must be replaced.

Disks Kit code 10399010057

At this stage you have checked and eventually replaced all the disks and gaskets.

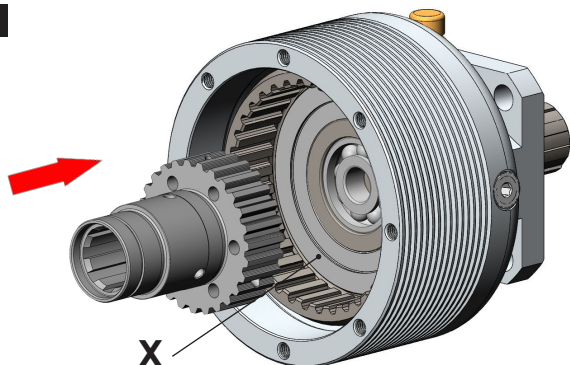
SLICK SHIFT assembly



During these operations every component must be blown with compressed air and cleaned where necessary.



01

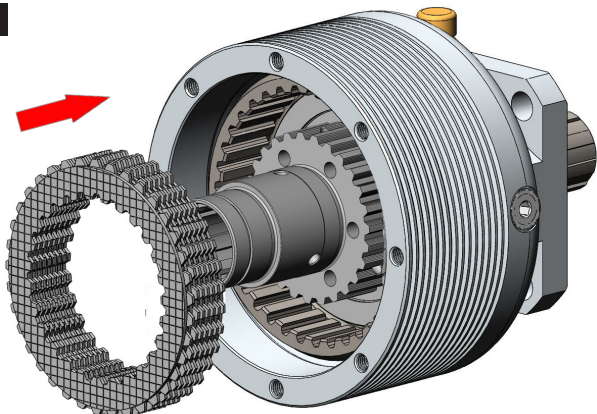


Re-assemble the hub.



ATTENTION! Check that “reaction disk” indicated with “X” has remained in its original position, if not re-place it properly with the right orientation.

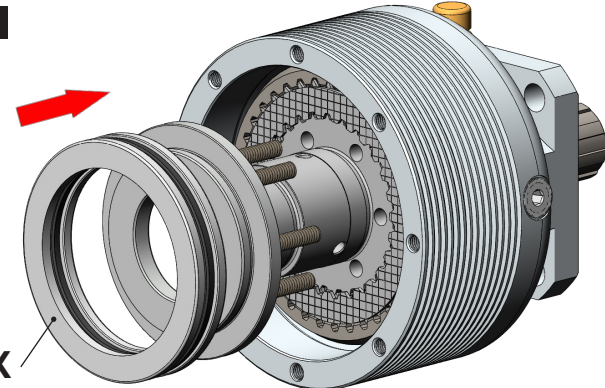
02



Insert the disks paying attention to ensure the proper alignment between external and internal teeth.

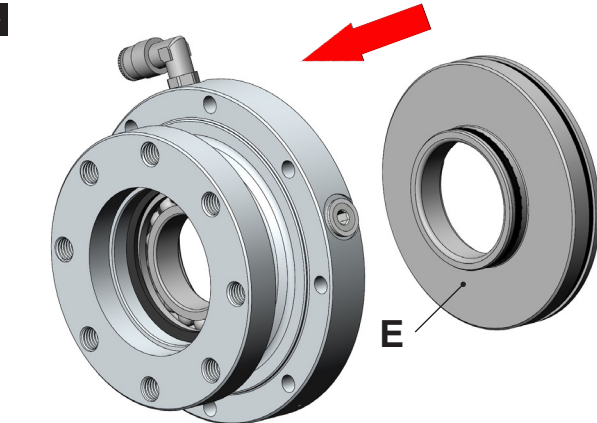
n° 8 friction disks.
n° 7 steel plates.

03

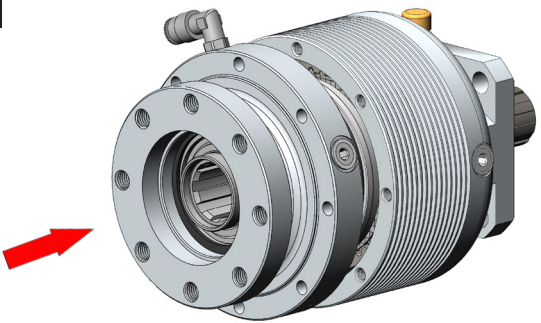
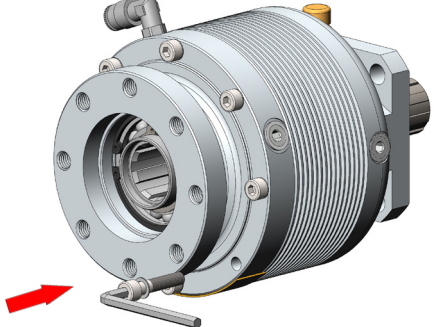
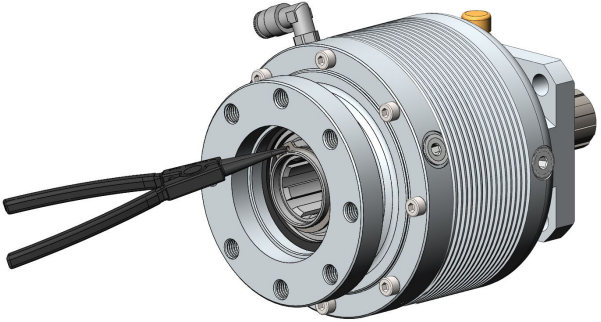
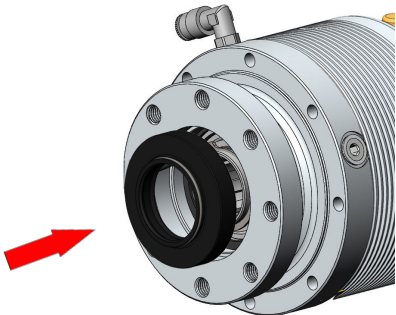


Place springs, “pressure disk” and axial bearing X in their housing.

04



Place the piston E in its seating.

05 	Fit in the FRONT BODY again.
06 	Screw-in all the 8 TCE M8x40 screws by means of an Allen Key. Tightening torque = 25 Nm
07 	Place the Seeger ring on the hub. Replace it in case it is damaged.
08 	Place a new oil seal. Seal Kit code 10399030053.

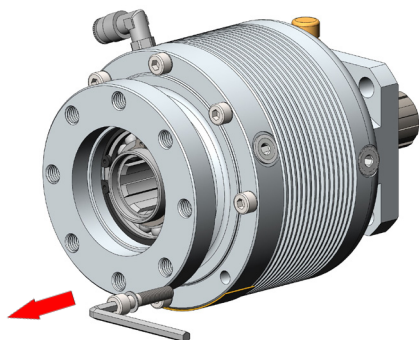
Data: Martedì 14 ottobre 2014

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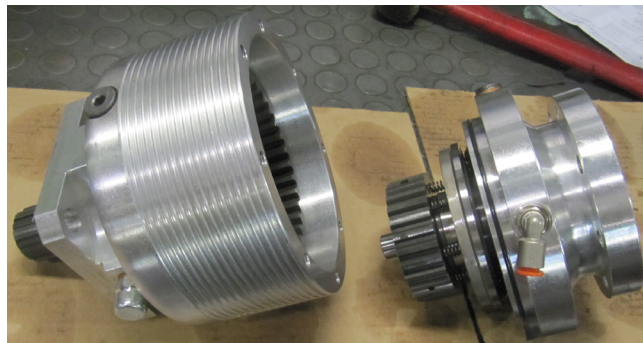
Bearing replacement. Disassembling

Every 4000 hours

01



Unscrew all the 8 TCE M8x40 screws by means of an Allen Key.



02



Remove indicated Seeger Ring on the shaft and elastic ring.

03

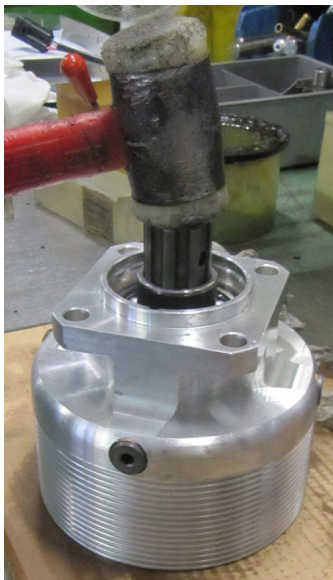


Remove the oil seal by means of a screwdriver. The oil seal must be replaced with a brand new one.

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04



Hit the shaft with a plastic hammer until the shaft comes off from the bottom.

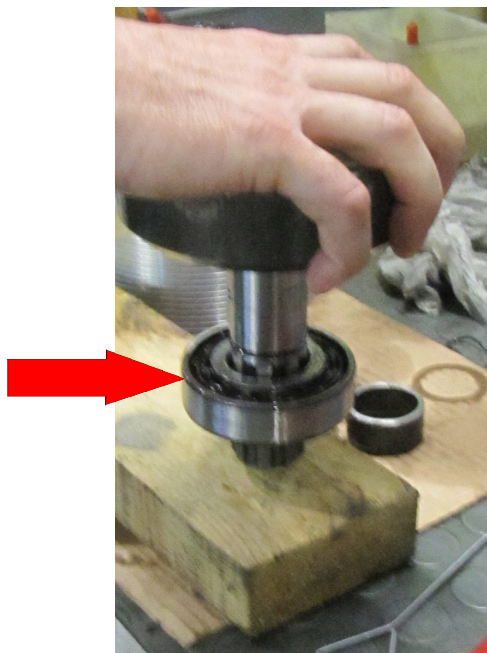


05



Remove indicated bearing and replace it.

06



In order not to damage the shaft, place it on a wooden surface and hit the shaft onto it until the bearing slips off. Replace the bearing.

07

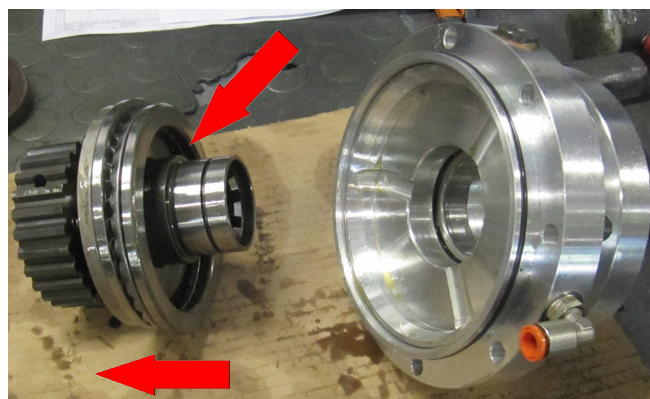


Hit the opposite side of the shaft on the wooden surface until the internal bearing comes off. Replace it.

08



Take the other half SLICK SHIFT body, separated at point 01. Remove the Seeger ring (see page 15, position 29) from the hub and then the complete Hub Unit. Extract also the axial bearing and replace it.



09



Blew air into the fitting and remove indicated component.

10



Rotate 180° the body, remove the Seeger ring which is "holding" the bearing.

11



Extract the bearing and replace it.

At this stage you have removed all the bearings that must be replaced.

Bearings Kit code 10399020055.

Assembly of SLICK SHIFT with new bearings.

01

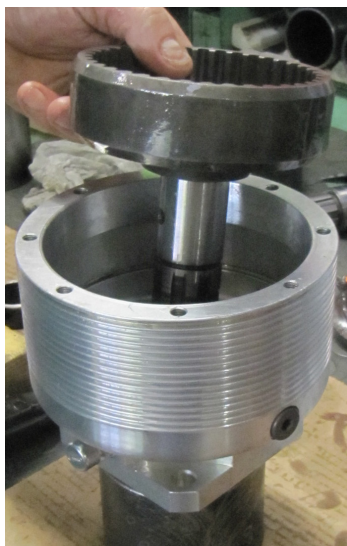


Insert the new bearing and push it in its seating.

**Bearing Kit
code 10399020055.**



02



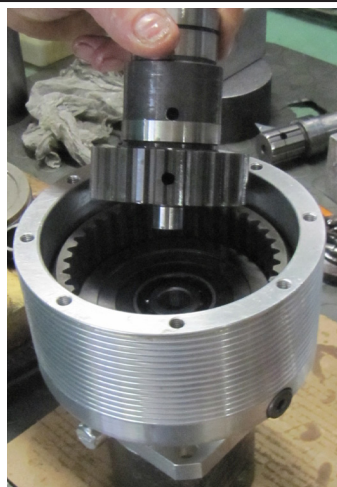
Place the shaft and then the new bearing on the bottom.

X

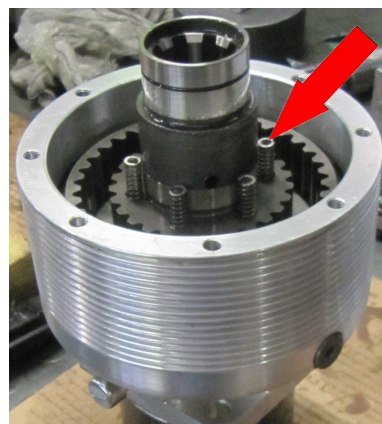


ATTENTION! Check that “reaction disk” indicated with “X” has remained in its original position, if not re-place it properly with the right orientation.

03



Insert the hub and the springs.



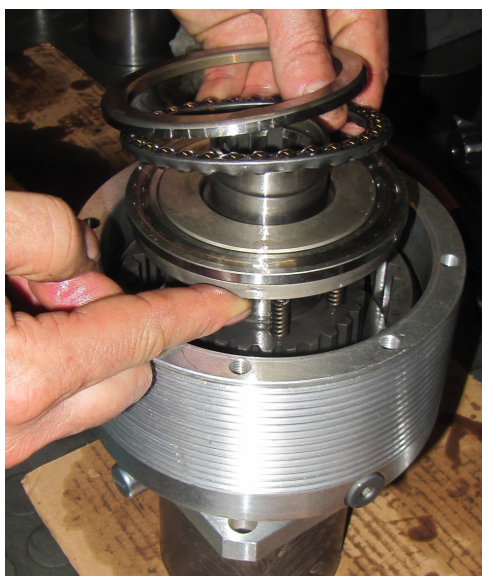
04



Insert alternatively and in sequence n.1 "friction disk" and n.1 "steel plate".

n° 8 friction disks.
n° 7 steel plates.

05



Insert in sequence the "pressure disk" (check correct mounting side) and the new axial bearing.

Bearings Kit code 10399020055.



06



On the other half Slick Shift body, insert indicated piston as shown.

07



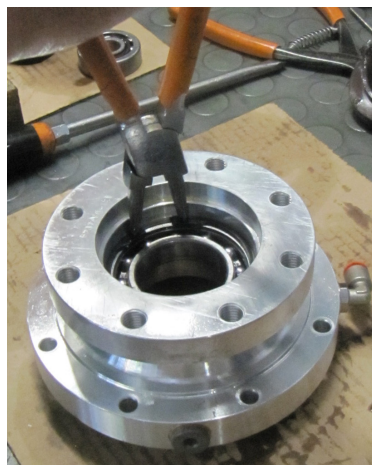
Couple the half body indicated in step n.6 with the other half body assembled before. Screw in the 8 screws with tightening torque = 25 Nm.



08



Place the new bearing and, in sequence, the Seeger ring on the hub and a new oil seal.
Seal Kit code 10399030053.



Bearing Kit code 10399020055.

09



Rotate the Slick Shift and place the new bearing in its seating.

Bearing Kit code 10399020055.

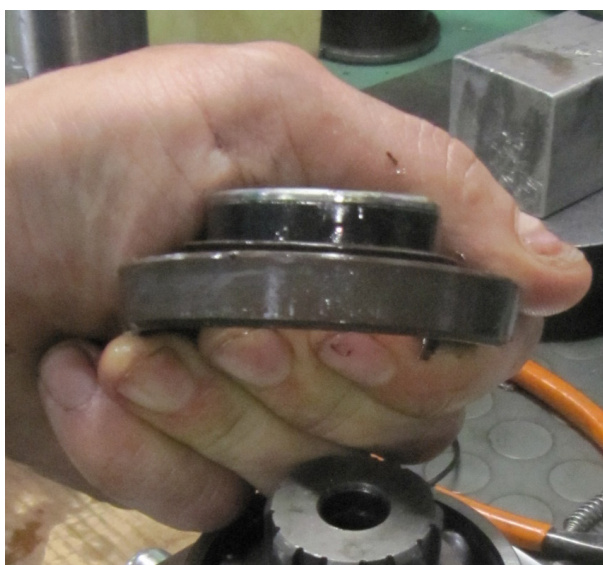
10



Place the new O-Ring on the shaft.

Seal Kit code 10399030053.

11



Place FIRST the bushing in the oil seal.

12



Place both bushing and oil seal on the shaft. Slightly hammer them alternative (make sure they don't separate in this phase) until they are properly in their seat.

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