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Special tools to disassemble
and assemble the range
synchroniser ring

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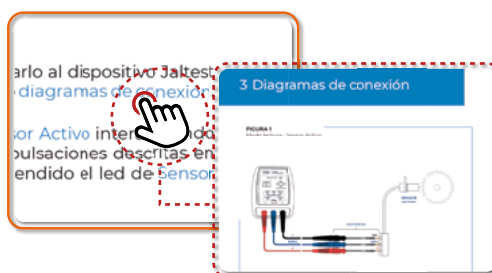
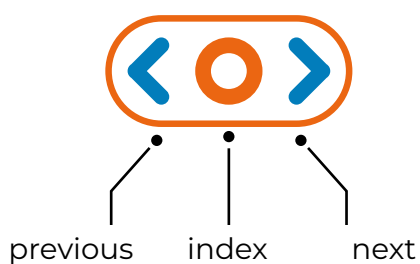


**Special tools to disassemble
and assemble the range
synchroniser ring**

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Easy navigation



Faster access
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1 General information

1.1 DESCRIPTION

Tool kit to disassemble and assemble the range synchroniser ring.

1.2 COMPOSITION

1. Tool to disassemble the range cover. [Ref. 50105132](#)
Note: If the reference 50105132 is purchased separately, the box contains 1 unit. If the kit 50105208 is purchased, 2 units are included.



1

2. Wrench for hexagonal axle nut, dr. 1/2", 74mm. [Ref. 50105109](#)



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3. Wrench for hexagonal axle nut, dr. 3/4", 50mm. [Ref. 50105127](#)



4



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4. Screw to disassemble/assemble the gearbox. [Ref. 50105125](#)

5. Tool to disassemble/assemble the range synchroniser ring. [Ref. 50105121](#)

6. Tool to disassemble/assemble the range synchroniser ring. [Ref. 50105120](#)



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7. Hydraulic cylinder. [Ref. 50105123](#)

8. Tool to disassemble/assemble the range synchroniser ring. Threaded bar. [Ref. 50105122](#)

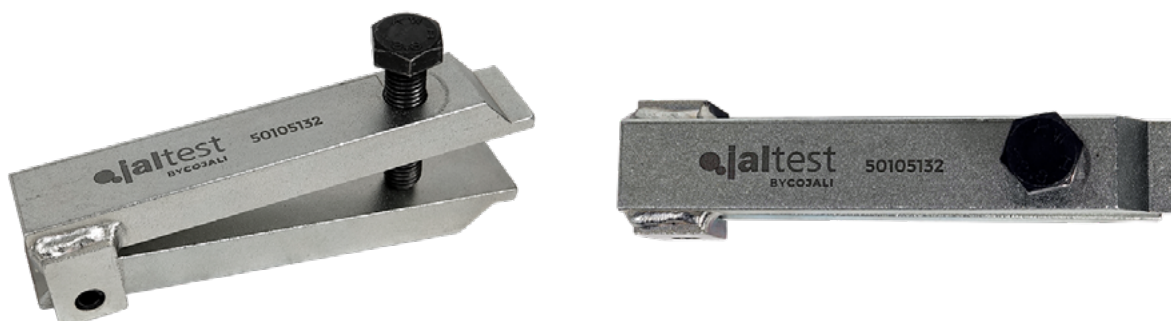
9. Manual hydraulic pump. [Ref. 50105119](#)

1.3 APPLICATION

AT and VT i-Shift/Optidriver gearboxes

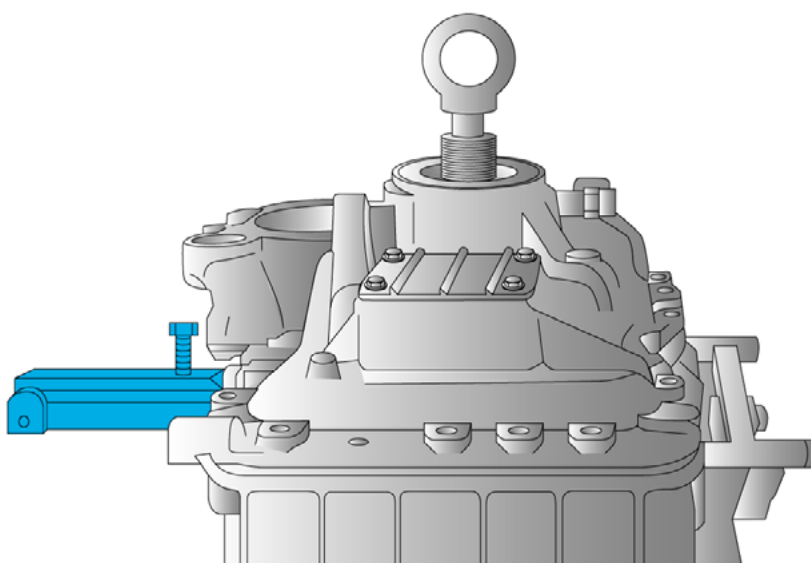
2 Component references

2.1 TOOL TO DISASSEMBLE THE RANGE COVER.



Reference: 50105132

[see on the website](#)



2.2 WRENCH FOR HEXAGONAL AXLE NUT, DR. 1/2", 74MM AND 3/4", 50MM.



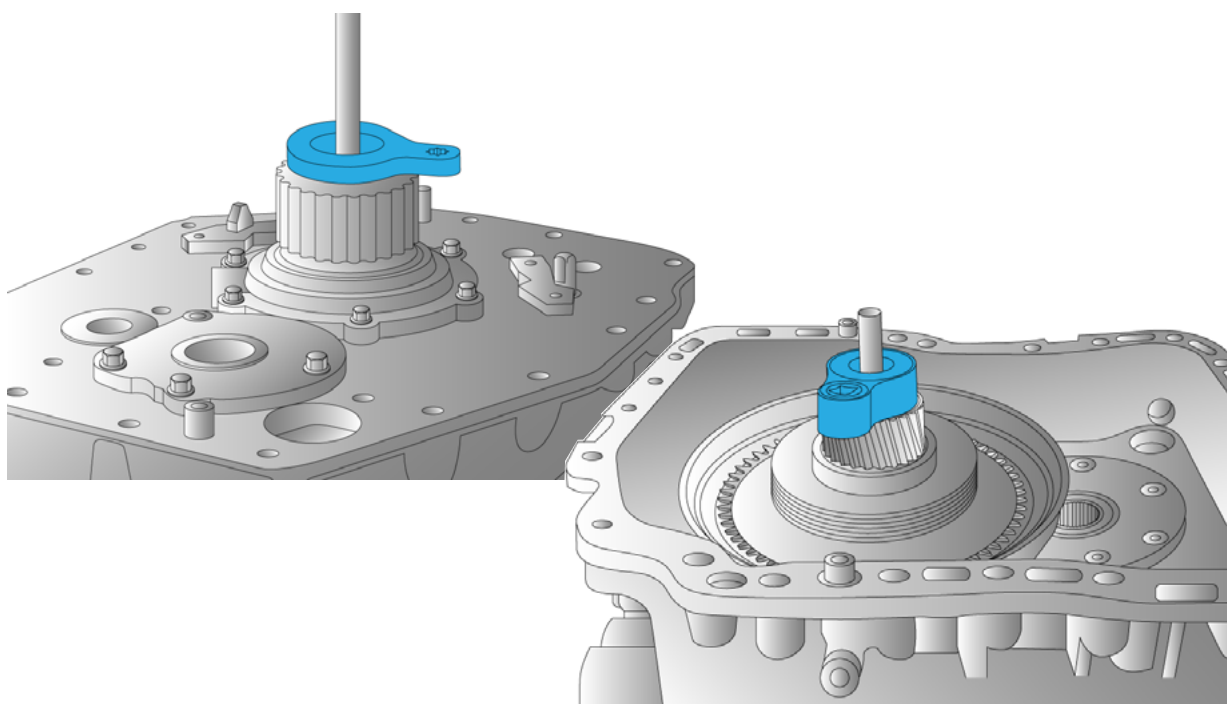
Reference: 50105109

[see on the website](#)



Reference: 50105127

[see on the website](#)

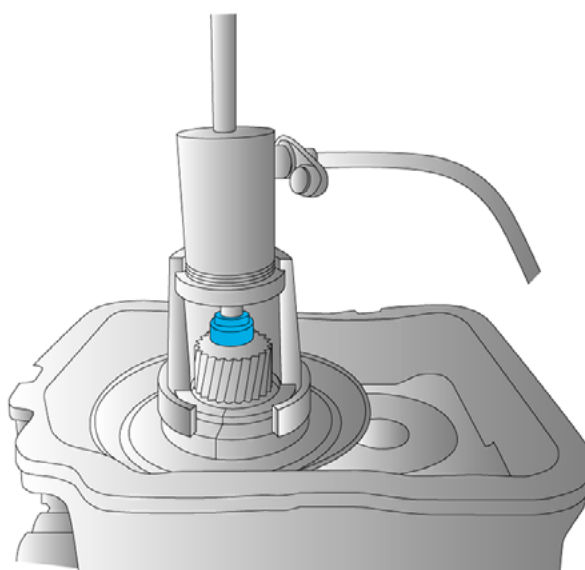


2.3 SCREW TO DISASSEMBLE/ASSEMBLE THE GEARBOX.



Reference: 50105125

[see on the website](#)

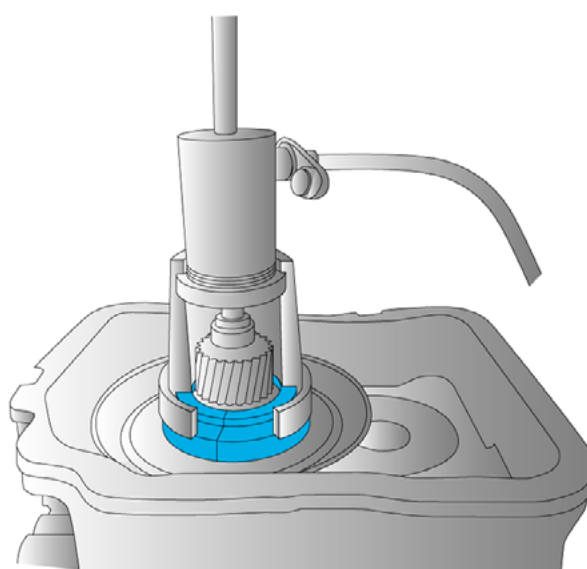


2.4 TOOL TO DISASSEMBLE/ASSEMBLE THE RANGE SYNCHRONISER RING.



Reference: 50105121

[see on the website](#)

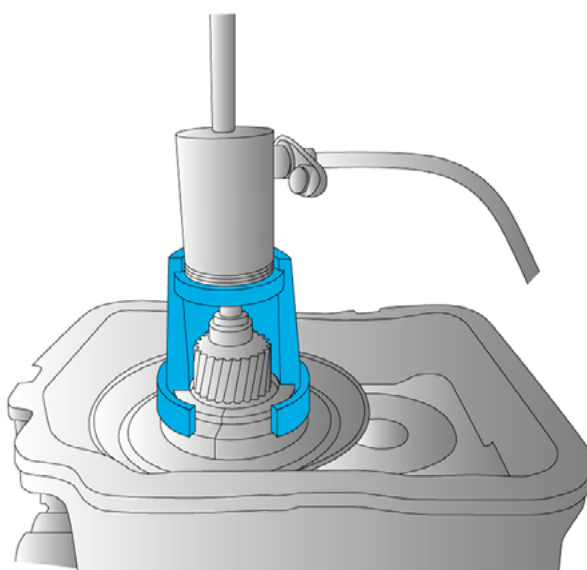


2.5 TOOL TO DISASSEMBLE/ASSEMBLE THE RANGE SYNCHRONISER RING.



Reference: 50105120

[see on the website](#)

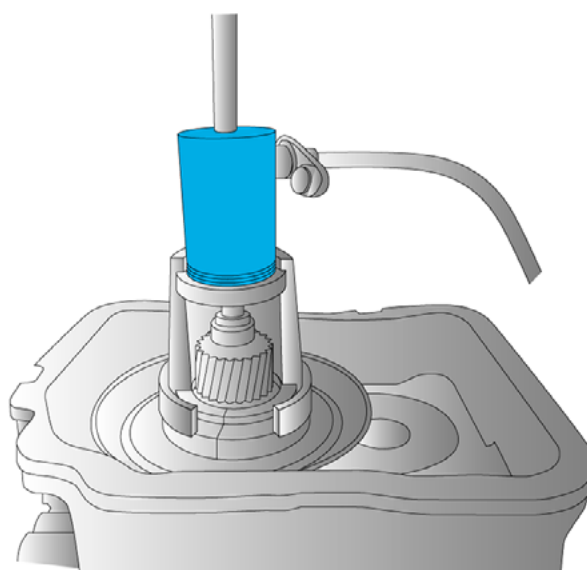


2.6 HYDRAULIC CYLINDER.



Reference: 50105123

[see on the website](#)



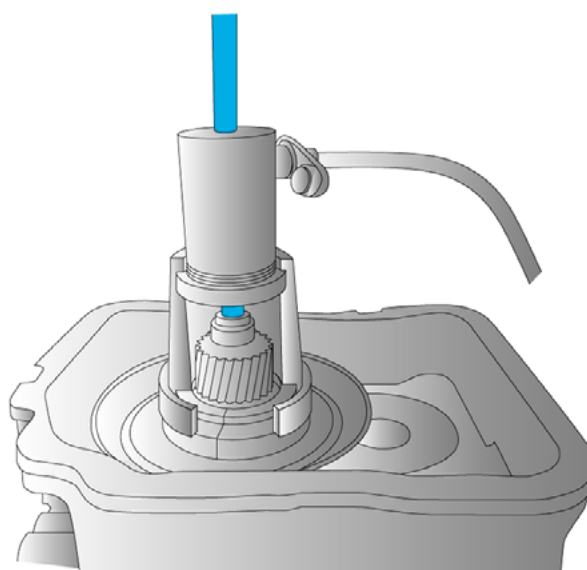


2.7 TOOL TO DISASSEMBLE/ASSEMBLE THE RANGE SYNCHRONISER RING. THREADED BAR.



Reference: 50105122

[see on the website](#)

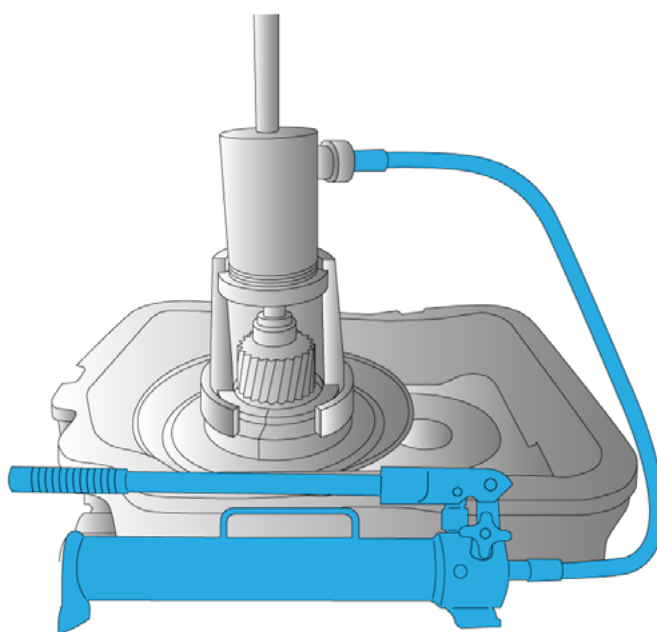


2.8 MANUAL HYDRAULIC PUMP.

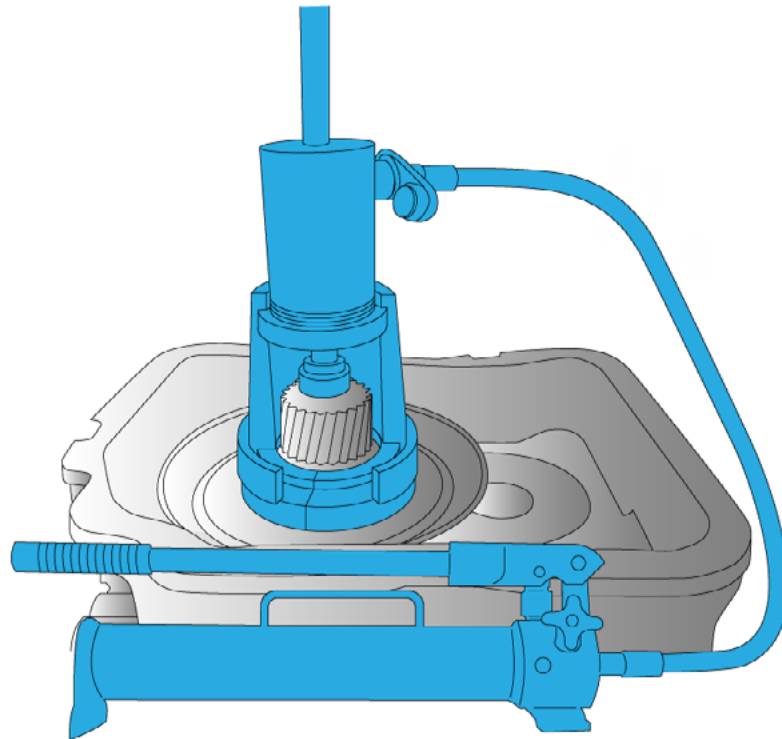


Reference: 50105119

[see on the website](#)



3 Kit video



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Herramientas especiales
para desmontaje y montaje
del anillo del sincronizador
del range

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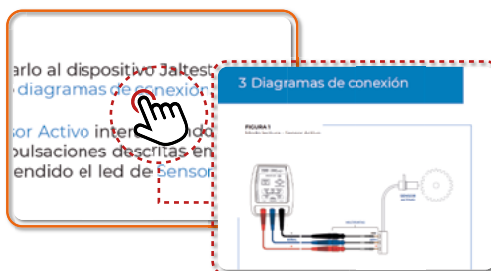
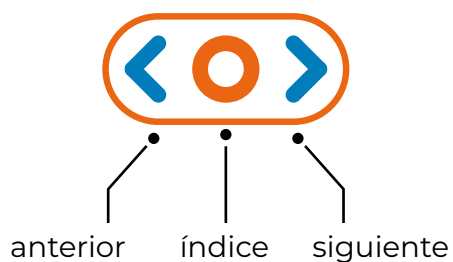


**Herramientas especiales
para desmontaje y montaje
del anillo del sincronizador
del range**

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3. Vídeo del conjunto	13

Fácil navegación



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1 Información general

1.1 DESCRIPCIÓN

Conjunto de útiles y herramientas para realizar el desmontaje y montaje del anillo del sincronizador del range.

1.2 COMPOSICIÓN

1. Útil para desmontaje de la tapa del range. [Ref. 50105132](#)

Nota: Si se adquiere la referencia 50105132 por separado, la caja contiene 1 ud. Cuando se adquiere el kit 50105208, se incluyen 2 uds.

2. Llave para tuerca de eje hexagonal, dr. 1/2", 74 mm. [Ref. 50105109](#)

3. Llave para tuerca de eje hexagonal, dr. 3/4", 50 mm. [Ref. 50105127](#)

4. Tornillo para desmontaje/montaje de la caja de cambios. [Ref. 50105125](#)

5. Útil para desmontaje/montaje del anillo del sincronizador del range. [Ref. 50105121](#)

6. Útil para desmontaje/montaje del anillo del sincronizador del range. [Ref. 50105120](#)

7. Cilindro hidráulico. [Ref. 50105123](#)

8. Útil para desmontaje/montaje del anillo del sincronizador del range. Barra roscada. [Ref. 50105122](#)

9. Bomba hidráulica manual. [Ref. 50105119](#)



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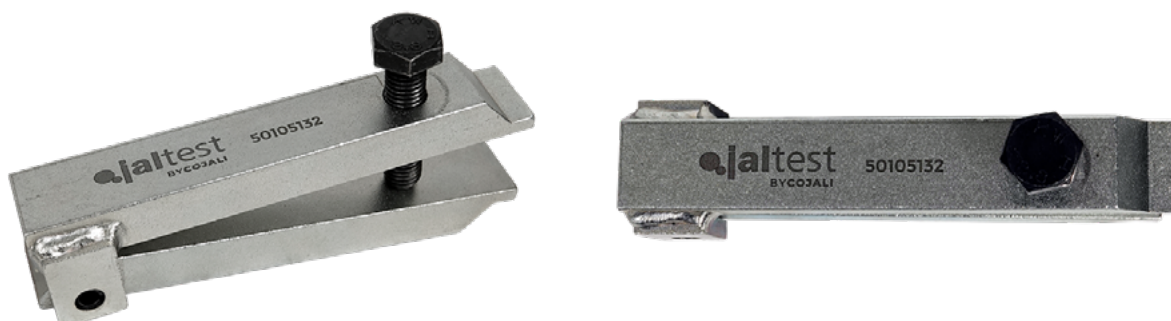
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1.3 APLICACIÓN

Cajas de cambio i-Shift/Optidriver AT y VT

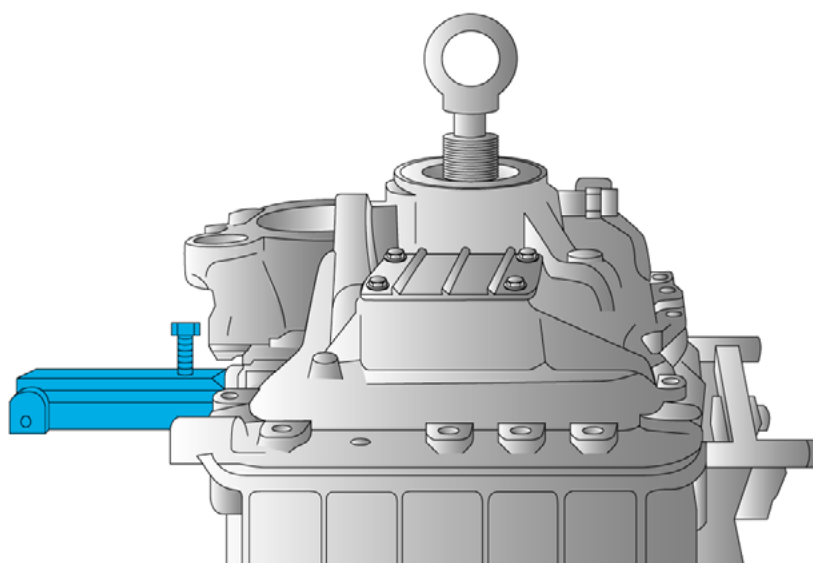
2 Referencias de componentes

2.1 ÚTIL PARA DESMONTAJE DE LA TAPA DEL RANGE



Referencia: 50105132

[ver en la web](#)



2.2 LLAVES PARA TUERCAS DE EJE HEXAGONAL, DR. 1/2", 74 MM y 3/4", 50 MM



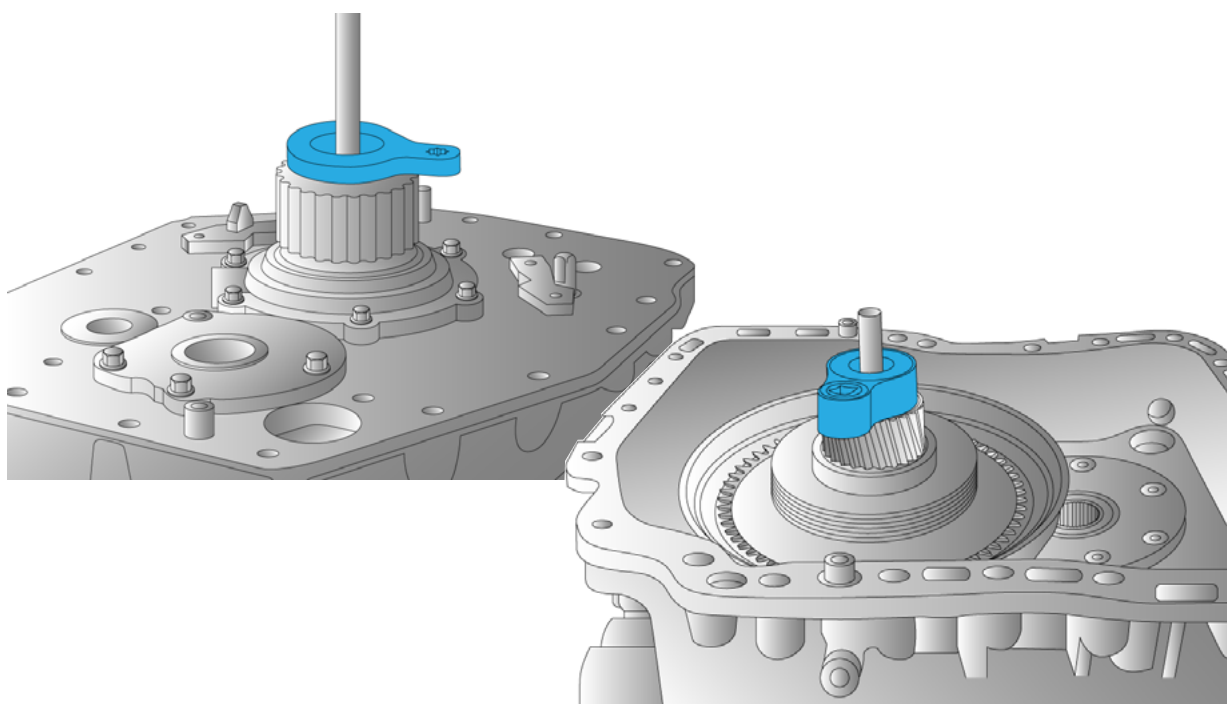
Referencia: 50105109

[ver en la web](#)



Referencia: 50105127

[ver en la web](#)

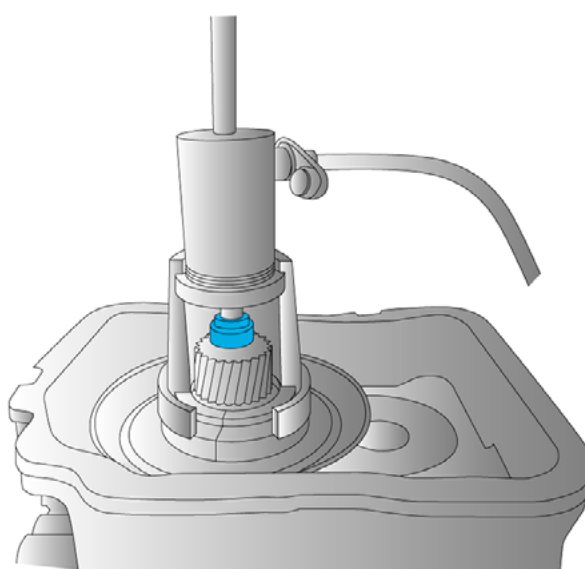


2.3 TORNILLO PARA DESMONTAJE/MONTAJE DE LA CAJA DE CAMBIOS



Referencia: 50105125

[ver en la web](#)

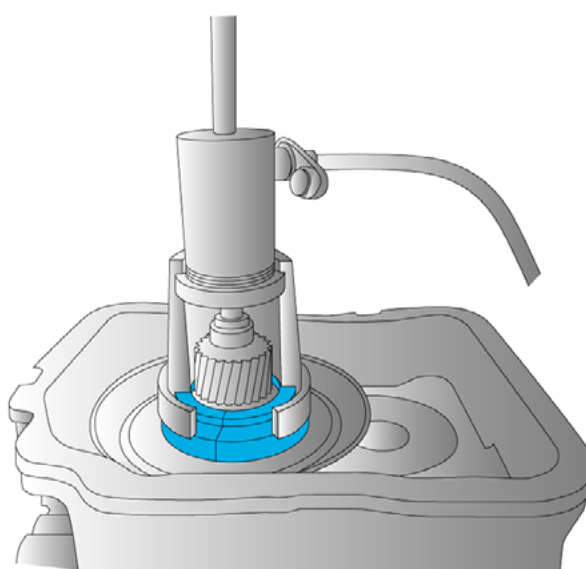


2.4 ÚTIL PARA DESMONTAJE/MONTAJE DEL ANILLO DEL SINCRONIZADOR DEL RANGE.



Referencia: 50105121

[ver en la web](#)

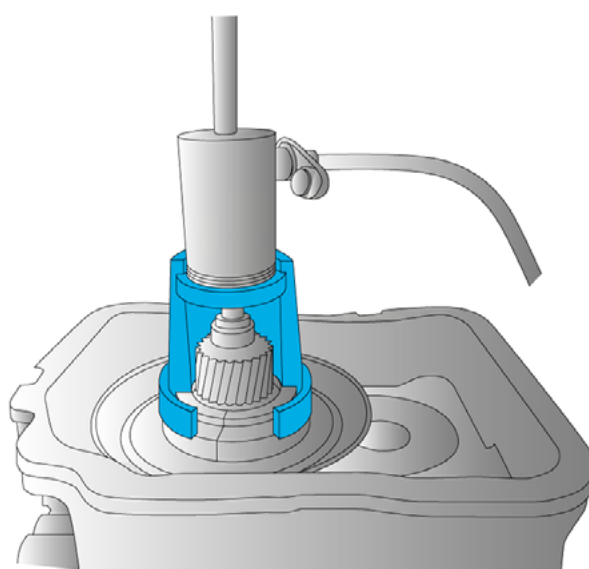


2.5 ÚTIL PARA DESMONTAJE/MONTAJE DEL ANILLO DEL SINCRONIZADOR DEL RANGE.



Referencia: 50105120

[ver en la web](#)

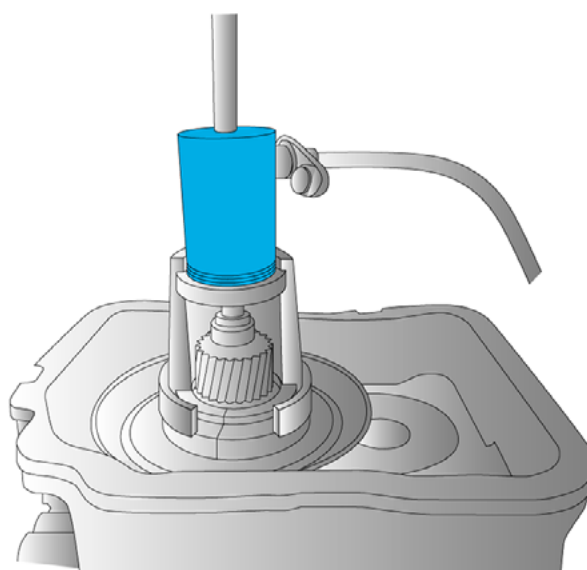


2.6 CILINDRO HIDRÁULICO



Referencia: 50105123

[ver en la web](#)

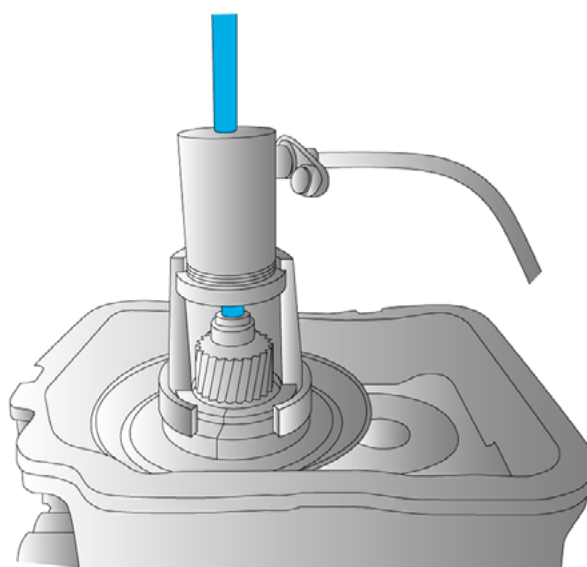


2.7 ÚTIL PARA DESMONTAJE/MONTAJE DEL ANILLO DEL SINCRONIZADOR DEL RANGE. BARRA ROSCADA



Referencia: 50105122

[ver en la web](#)

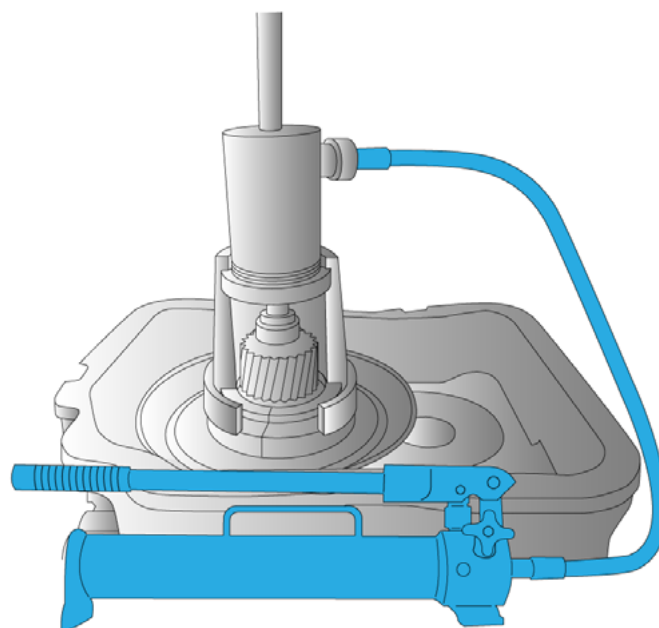


2.8 BOMBA HIDRÁULICA MANUAL



Referencia: 50105119

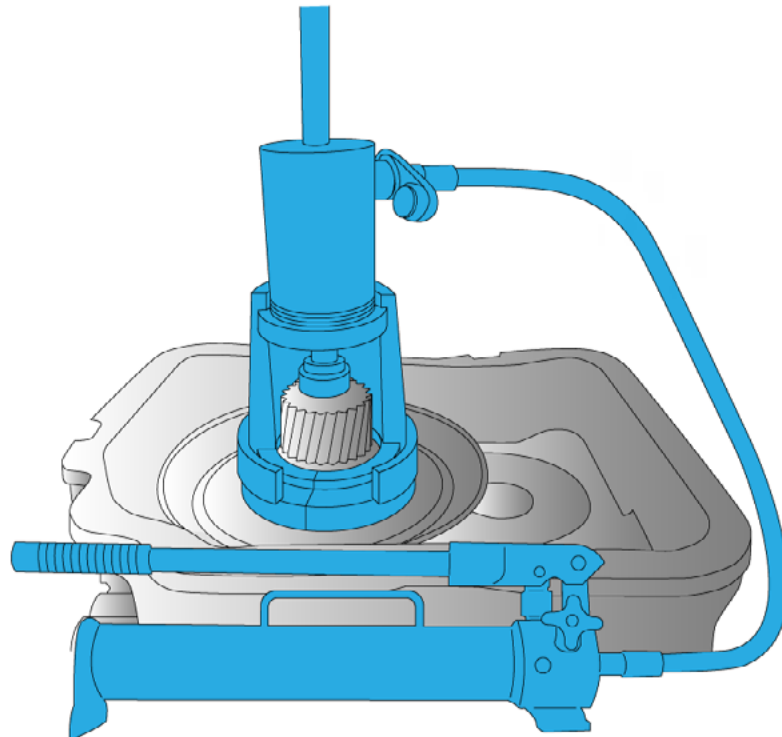
[ver en la web](#)



3 Vídeo del conjunto



ver vídeo



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Outils spéciaux pour
le démontage et le
montage de l'anneau du
synchroniseur du range

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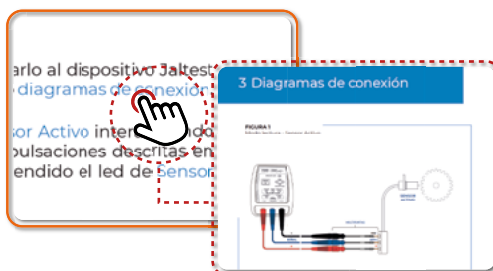
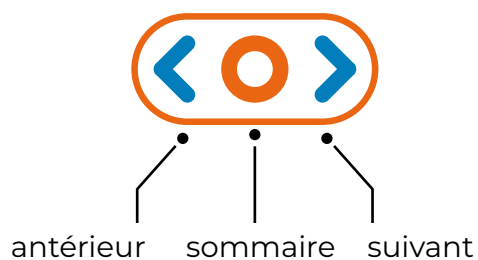


Outils spéciaux pour le
démontage et le montage de
l'anneau du synchroniseur
du range

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Navigation facile



Accédez plus rapidement au contenu dont vous avez besoin en cliquant

1 Information générale

1.1 DESCRIPTION

Ensemble des outils pour réaliser le démontage et le montage de l'anneau du synchroniseur du range.

1.2 COMPOSITION

1. Outil d'extraction du carter du groupe multiplicateur du range.

Réf. 50105132

Note : Si l'on achète la référence 50105132 séparément, la boîte contient 1 unité. Lorsque l'on achète le kit 50105208, il comprend 2 unités.

2. Outil pour écrou hexagonal d'arbre secondaire de boîte de vitesses, d. 1/2", 74 mm. Réf. 50105109

3. Outil pour écrou hexagonal d'arbre secondaire de boîte de vitesses, d. 3/4", 50 mm. Réf. 50105127

4. Vis pour le démontage/montage du module range de la boîte de vitesses. Réf. 50105125

5. Bague d'appui pour le démontage/montage de l'anneau du module range de la boîte de vitesses. Réf. 50105121

6. Bague d'appui pour le démontage/montage de l'anneau du module range de la boîte de vitesses. Réf. 50105120

7. Vérin hydraulique. Réf. 50105123

8. Tige filetée pour le démontage/montage de l'anneau du groupe multiplicateur du range. Réf. 50105122

9. Pompe hydraulique manuelle. Réf. 50105119



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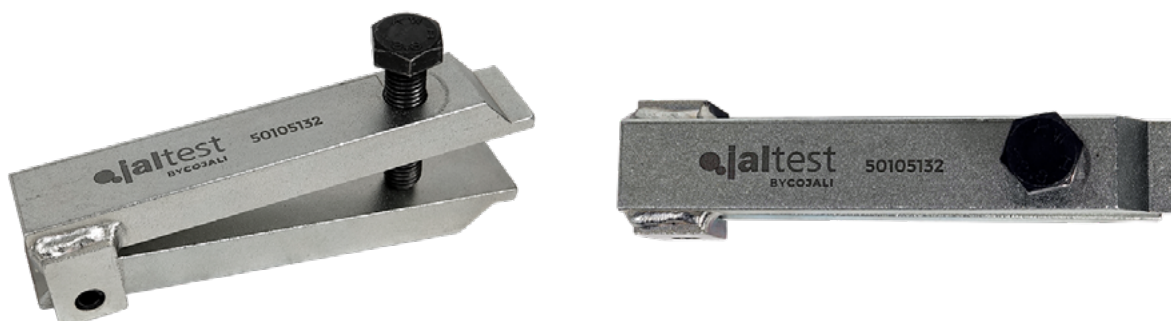
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1.3 APPLICATION

Boîte de vitesses i-Shift/Optidriver AT et VT

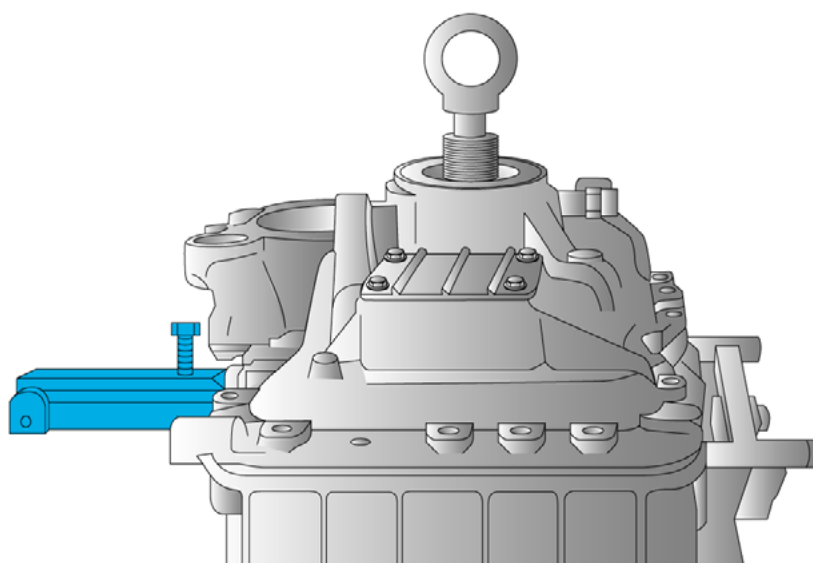
2 Références des composants

2.1 OUTIL D'EXTRACTION DU CARTER DU GROUPE MULTIPLICATEUR DU RANGE.



Référence: 50105132

[voir sur le site web](#)



2.2 OUTIL POUR ÉCROU HEXAGONAL D'ARBRE SECONDAIRE DE BOÎTE DE VITESSES, D. 1/2", 74 MM ET 3/4", 50 MM



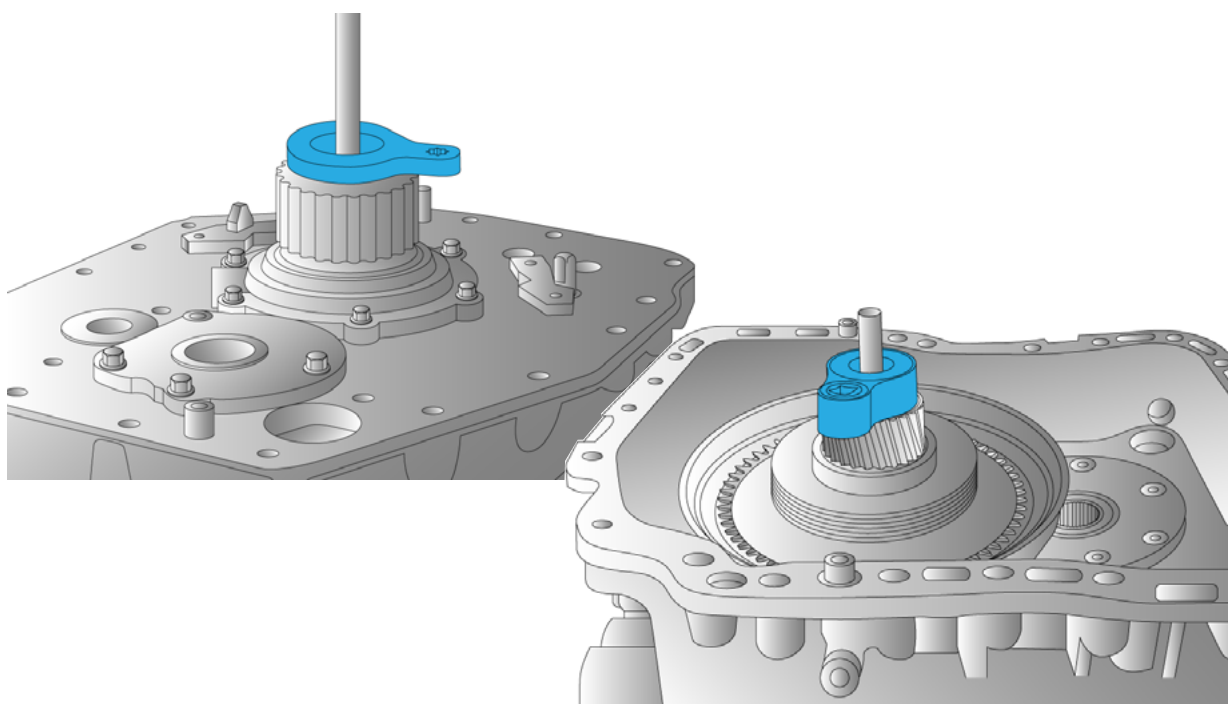
Référence: 50105109

[voir sur le site web](#)



Référence: 50105127

[voir sur le site web](#)

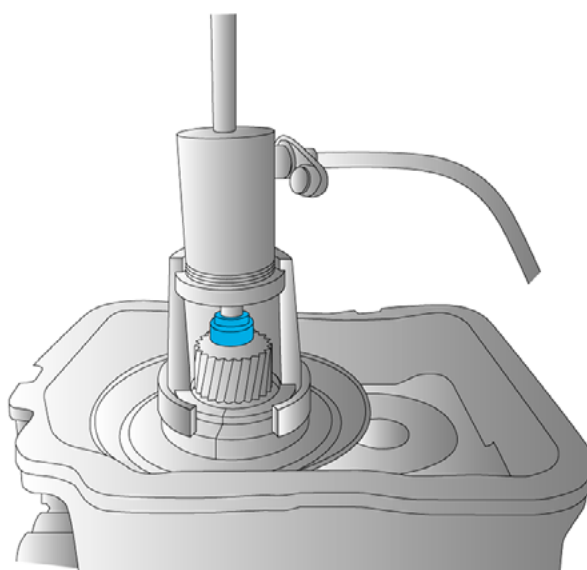


2.3 VIS POUR LE DÉMONTAGE/MONTAGE DU MODULE RANGE DE LA BOÎTE DE VITESSES.



Référence: 50105125

[voir sur le site web](#)

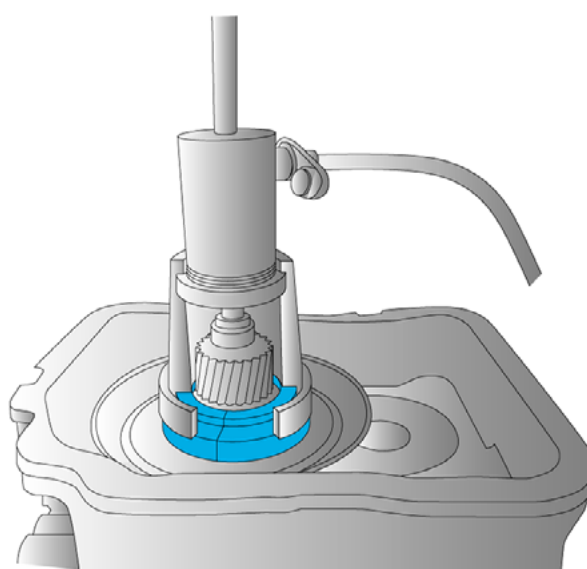


2.4 BAGUE D'APPUI POUR LE DÉMONTAGE/ MONTAGE DE L'ANNEAU DU MODULE RANGE DE LA BOÎTE DE VITESSES.



Référence: 50105121

[voir sur le site web](#)

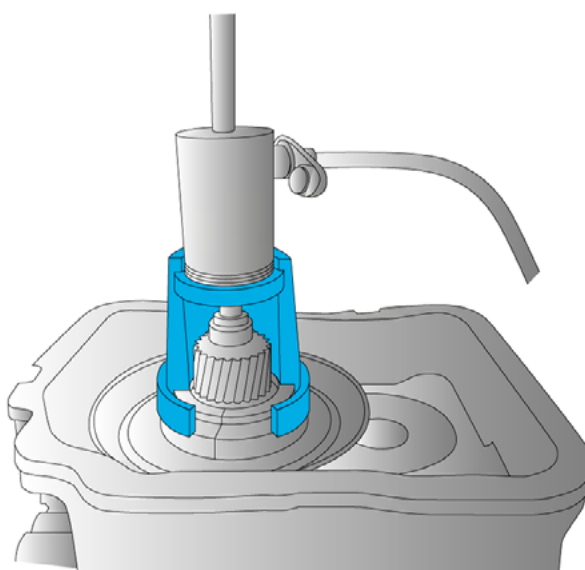


2.5 BAGUE D'APPUI POUR LE DÉMONTAGE/ MONTAGE DE L'ANNEAU DU MODULE RANGE DE LA BOÎTE DE VITESSES.



Référence: 50105120

[voir sur le site web](#)

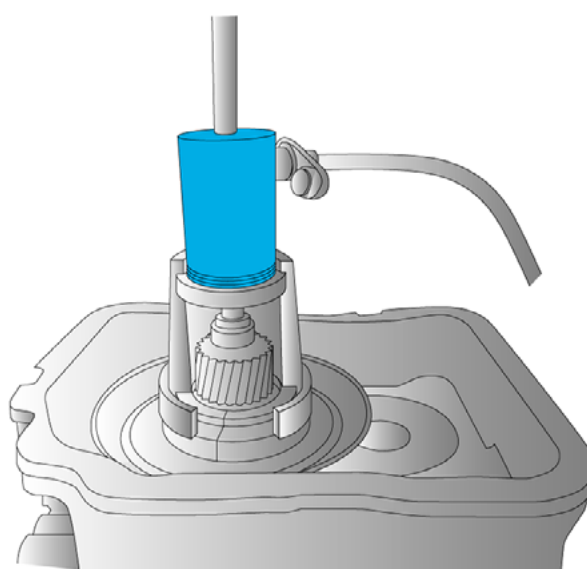


2.6 VÉRIN HYDRAULIQUE.



Référence: 50105123

[voir sur le site web](#)

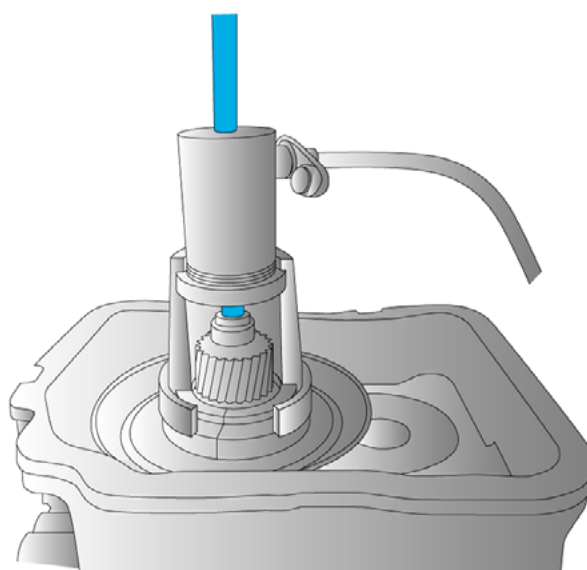


2.7 TIGE FILETÉE POUR LE DÉMONTAGE/MONTAGE DE L'ANNEAU DU GROUPE MULTIPLICATEUR DU RANGE.



Référence: 50105122

[voir sur le site web](#)

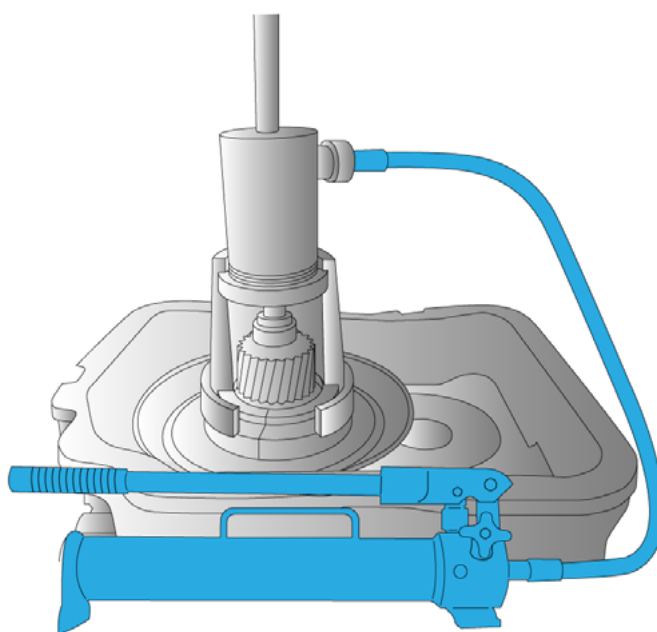


2.8 POMPE HYDRAULIQUE MANUELLE.



Référence: 50105119

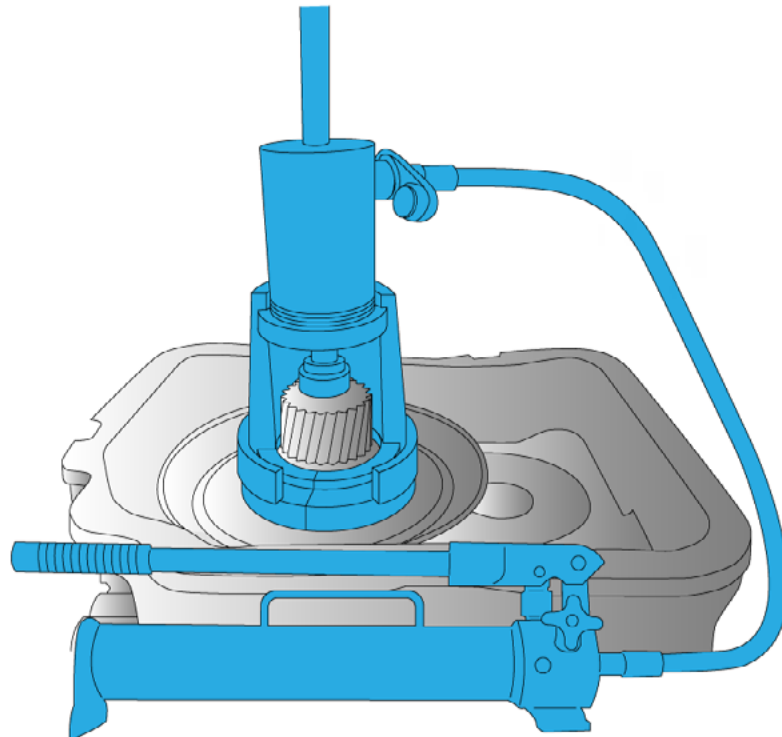
[voir sur le site web](#)



3 Vidéo de l'ensemble



voir la vidéo



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Spezialwerkzeuge zur
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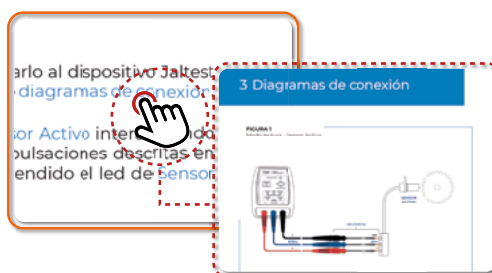
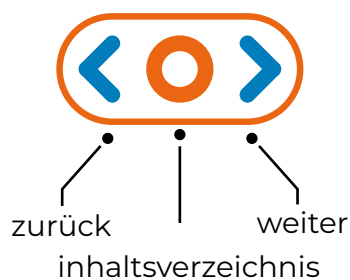


**Spezialwerkzeuge zur
Demontage und Montage
des Range-Synchronrings**

Inhaltsverzeichnis

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2. Produktreferenz-Nrn. der Komponenten	5
3. Video des Bausatzes	13

Einfaches Surfen



Schneller auf den Inhalt zugreifen, den Sie brauchen - mit einem Klick

1 Allgemeine Informationen

1.1 BESCHREIBUNG

Gruppe von Spezialwerkzeugen zur Demontage und Montage des Range-Synchronrings.

1.2 BESTEHEND AUS:

1. Spezialwerkzeug zur Demontage der Range-Abdeckung. [Produktref.-Nr. 50105132](#)
Bitte beachten: Wenn die Produktreferenz 50105132 separat erworben wird, beträgt der Lieferumfang 1 Einheit. Wird das Kit mit der Produktreferenz 50105208 erworben, beträgt der Lieferumfang 2 Einheiten.
2. Sechskant-Achsmutterschlüssel, 1/2 Zoll, 74 mm. [Produktref.-Nr. 50105109](#)
3. Sechskant-Achsmutterschlüssel, 3/4 Zoll, 50 mm. [Produktref.-Nr. 50105127](#)
4. Schraube zur Demontage/Montage des Getriebes. [Produktref.-Nr. 50105125](#)
5. Spezialwerkzeug zur Demontage/Montage des Range-Synchronrings. [Produktref.-Nr. 50105121](#)
6. Spezialwerkzeug zur Demontage/Montage des Range-Synchronrings. [Produktref.-Nr. 50105120](#)
7. Hydraulikzylinder. [Produktref.-Nr. 50105123](#)
8. Spezialwerkzeug zur Demontage/Montage des Range-Synchronrings. Gewindestange. [Produktref.-Nr. 50105122](#)
9. Manuelle Hydraulikpumpe. [Produktref.-Nr. 50105119](#)

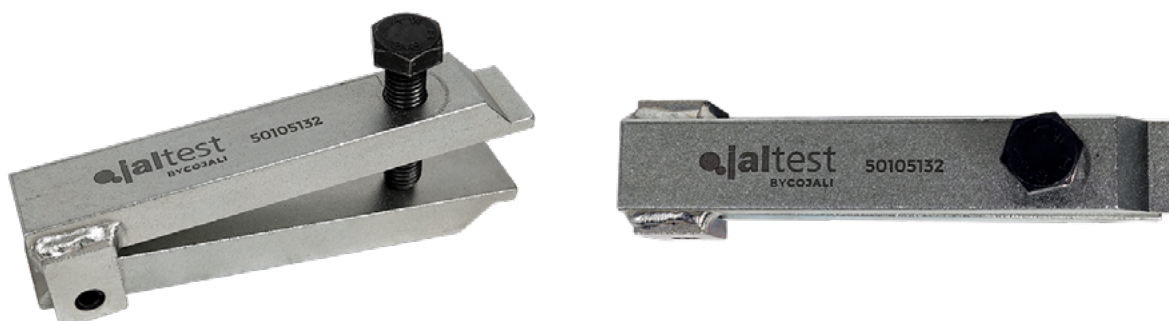


1.3 ANWENDUNGSBEREICH

- i-Shift/Optidriver AT und VT-Getriebe

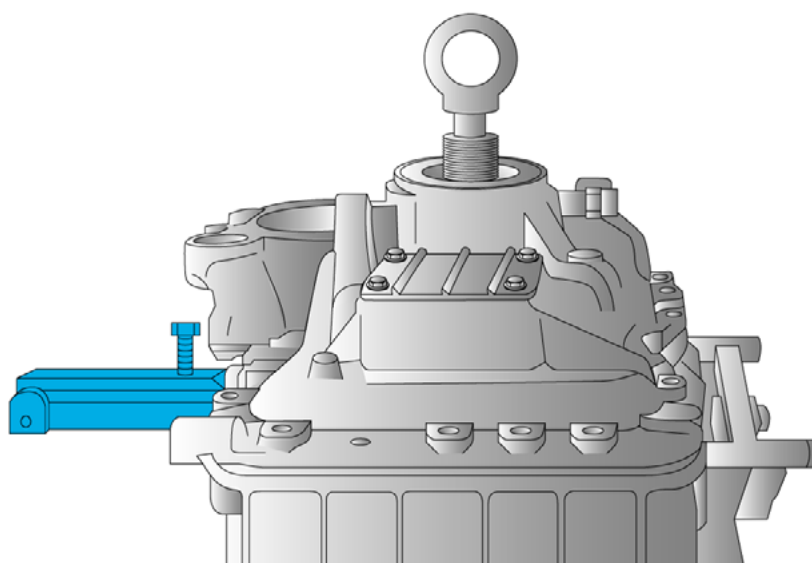
2 Produktreferenz-Nrn. der Komponenten

2.1 SPEZIALWERKZEUG ZUR DEMONTAGE DER RANGE-ABDECKUNG



Produktreferenz-Nr. 50105132

[Auf der Website ansehen](#)



2.2 SECHSKANT-ACHSMUTTERSCHLÜSSEL, 1/2", 74 MM und 3/4", 50 MM



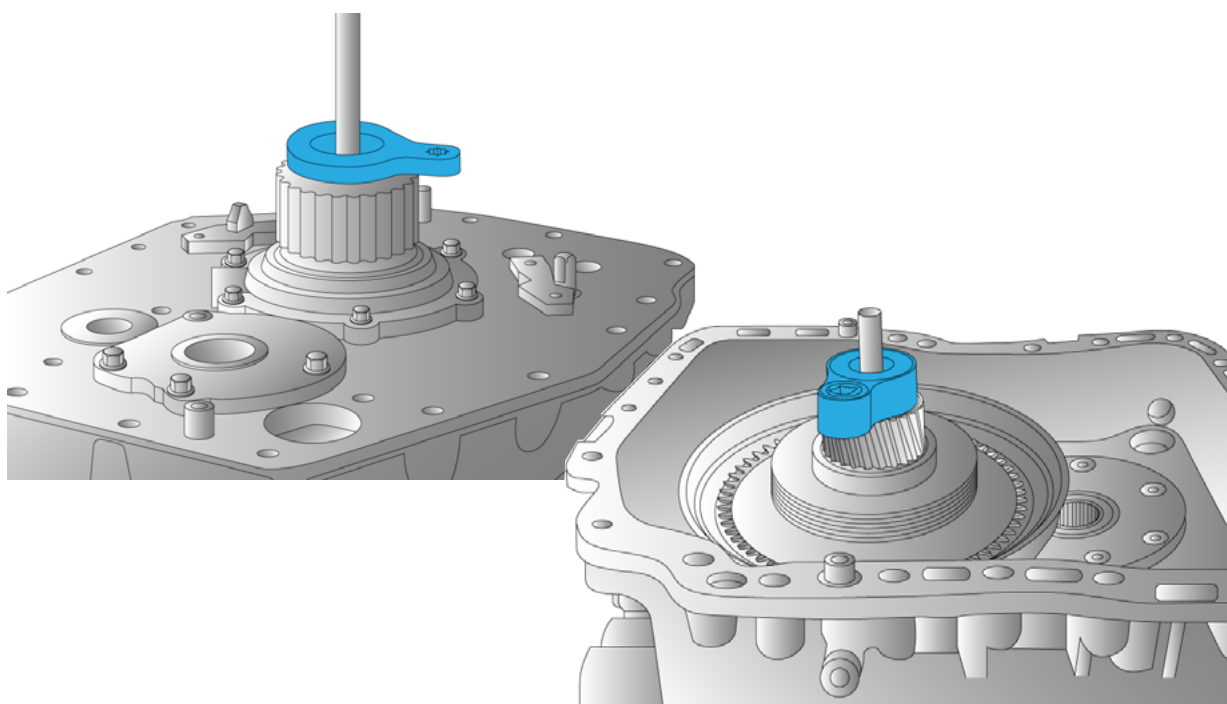
Produktreferenz-Nr. 50105109

[Auf der Website ansehen](#)



Produktreferenz-Nr. 50105127

[Auf der Website ansehen](#)

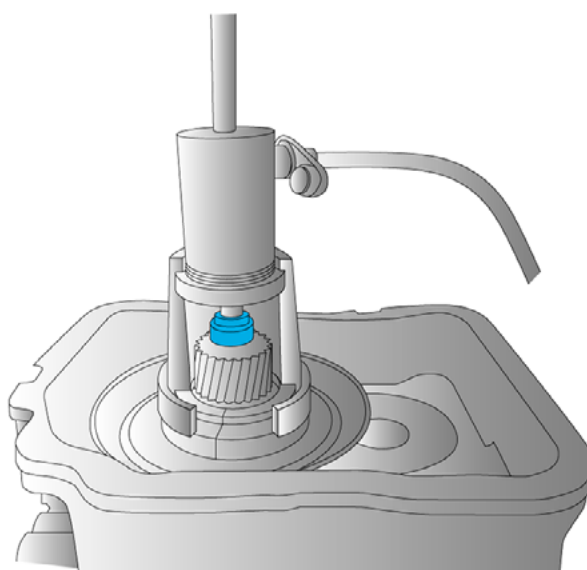


2.3 SCHRAUBE ZUR DEMONTAGE/MONTAGE DES GETRIEBES



Produktreferenz-Nr. 50105125

[Auf der Website ansehen](#)

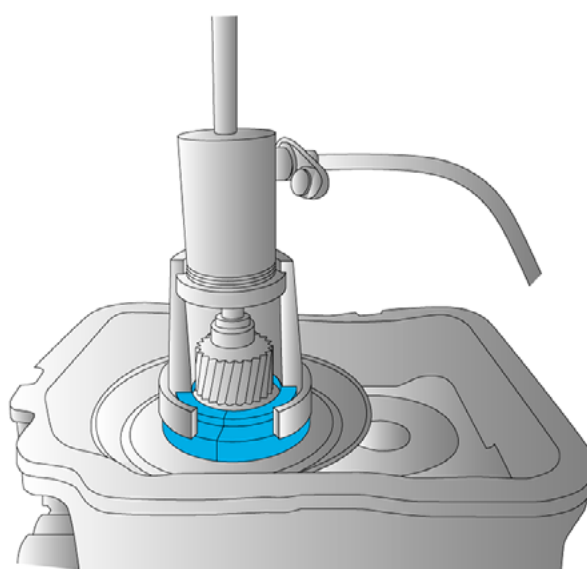


2.4 SPEZIALWERKZEUG ZUR DEMONTAGE/ MONTAGE DES RANGE-SYNCHRONRINGS



Produktreferenz-Nr. 50105121

[Auf der Website ansehen](#)

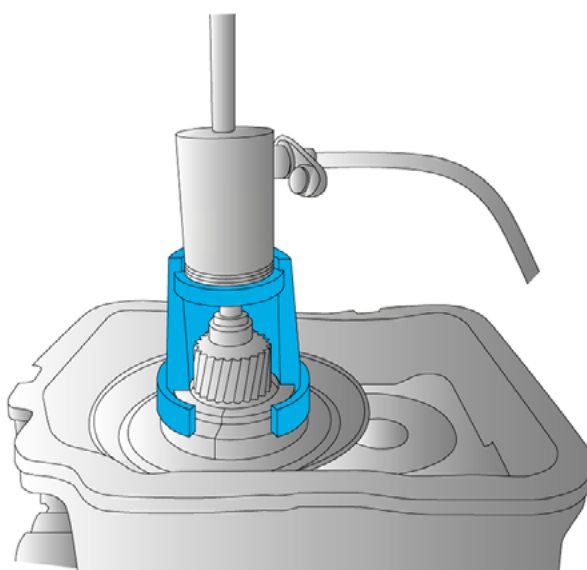


2.5 SPEZIALWERKZEUG ZUR DEMONTAGE/ MONTAGE DES RANGE-SYNCHRONRINGS



Produktreferenz-Nr. 50105120

[Auf der Website ansehen](#)

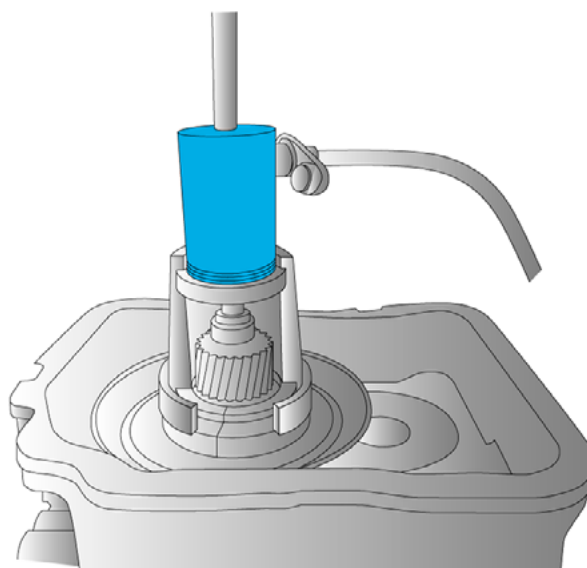


2.6 HYDRAULIKZYLINDER



Produktreferenz-Nr. 50105123

[Auf der Website ansehen](#)

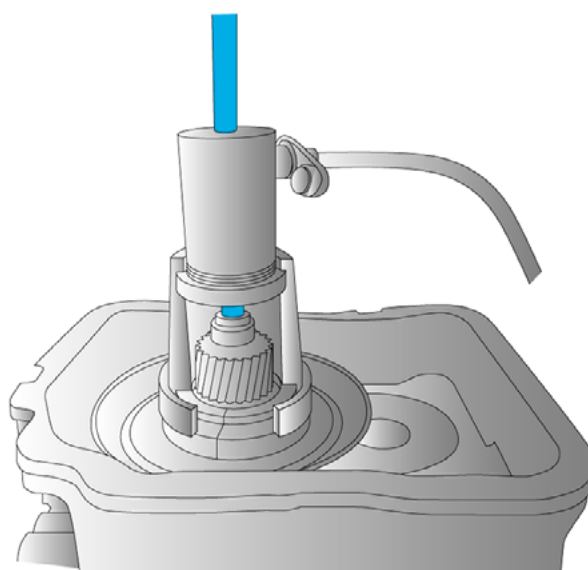


2.7 SPEZIALWERKZEUG ZUR DEMONTAGE/MONTAGE DES RANGE-SYNCHRONRINGS. GEWINDESTANGE



Produktreferenz-Nr. 50105122

[Auf der Website ansehen](#)

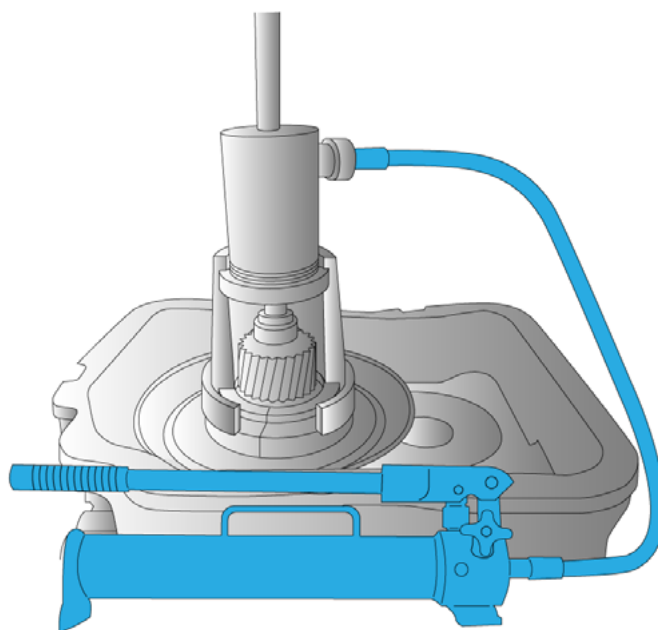


2.8 MANUELLE HYDRAULIKPUMPE



Produktreferenz-Nr. 50105119

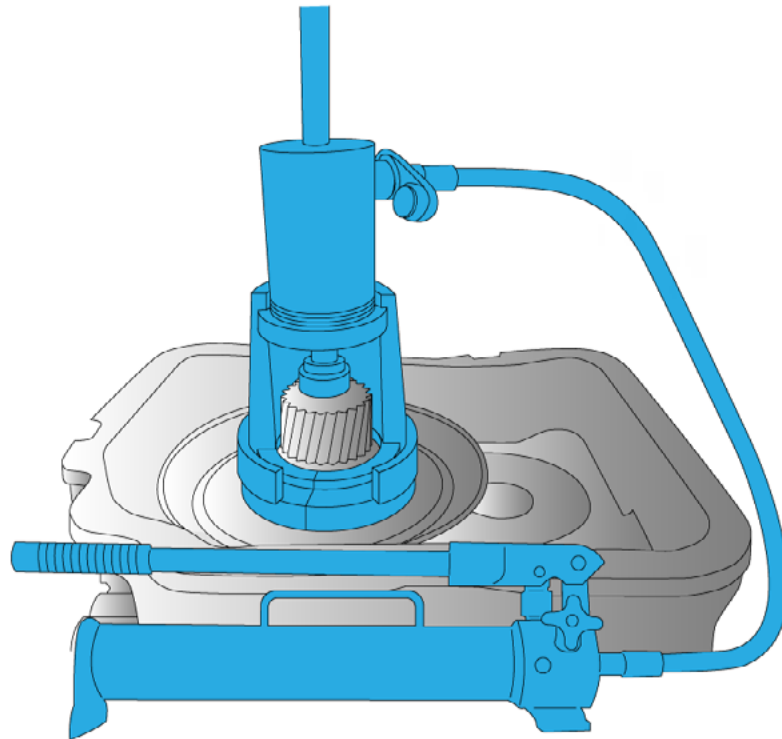
[Auf der Website ansehen](#)



3 Video des Bausatzes



Video anschauen



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Attrezzi speciali per
smontare e montare l'anello
del sincronizzatore del
range

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INNOVATION & TECHNOLOGY



**Attrezzi speciali per
smontare e montare l'anello
del sincronizzatore del range**

Indice

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Navigazione facilitata



precedente indice seguente



Acceda più velocemente al contenuto di cui necessita con un clic

1 Informazioni generali

1.1 DESCRIZIONE

Insieme di utensili e attrezzi per smontare e montare l'anello del sincronizzatore del range.

1.2 COMPOSIZIONE

1. Utensile per smontare il tappo del range. [Ref. 50105132](#)
Nota: se si acquista la referenza 50105132 separatamente, la confezione contiene 1 pezzo. Quando si acquista il kit 50105208, i pezzi forniti sono 2.



1



2



3

2. Chiave per dado dell'asse esagonale, dr. 1/2", 74 mm. [Ref. 50105109](#)

3. Chiave per dado dell'asse esagonale, dr. 3/4", 50 mm. [Ref. 50105127](#)



4



5



6

4. Vite per smontare/montare la scatola del cambio. [Ref. 50105125](#)

5. Utensile per smontare/montare l'anello del sincronizzatore del range. [Ref. 50105121](#)

6. Utensile per smontare/montare l'anello del sincronizzatore del range. [Ref. 50105120](#)



7



8



9

7. Cilindro idraulico. [Ref. 50105123](#)

8. Utensile per smontare/montare l'anello del sincronizzatore del range. Barra filettata. [Ref. 50105122](#)

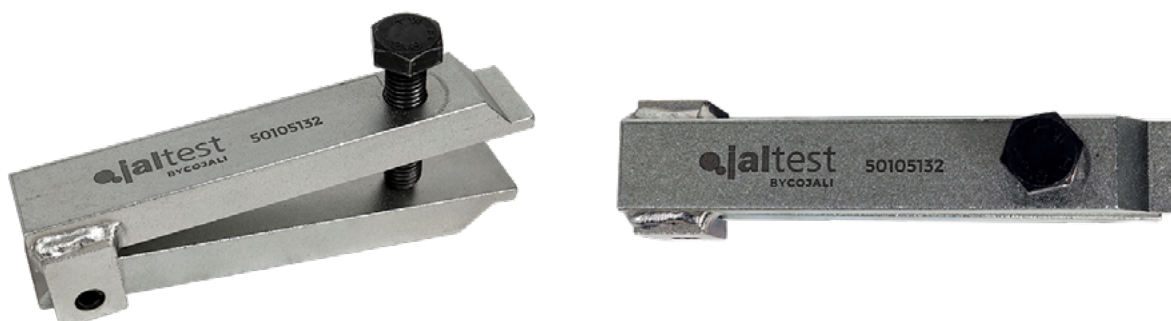
9. Pompa idraulica manuale. [Ref. 50105119](#)

1.3 APPLICAZIONI

Scatole del cambio i-Shift/Optidriver AT e VT

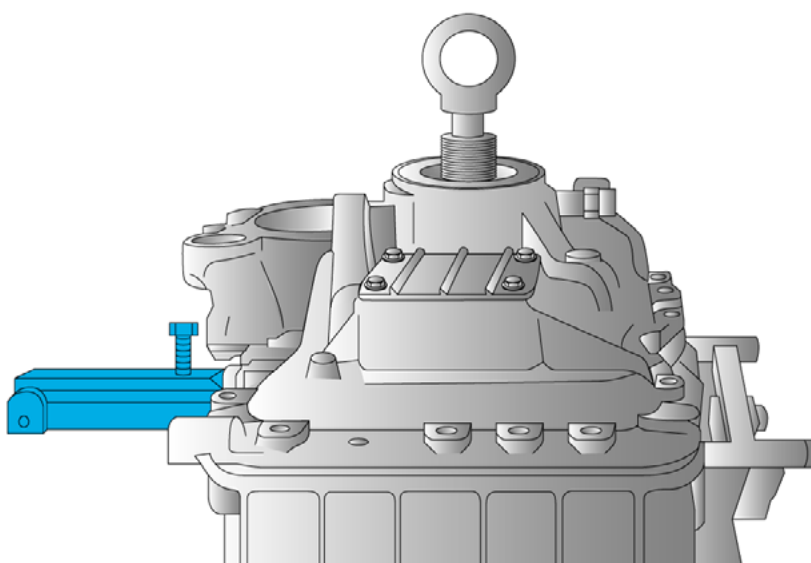
2 Referenze dei componenti

2.1 UTENSILE PER SMONTARE IL TAPPO DEL RANGE.



Referenza: 50105132

[vedere nel sito web](#)



2.2 CHIAVE PER DADO DELL'ASSE ESAGONALE, DR.. 1/2", 74 MM e 3/4", 50 MM



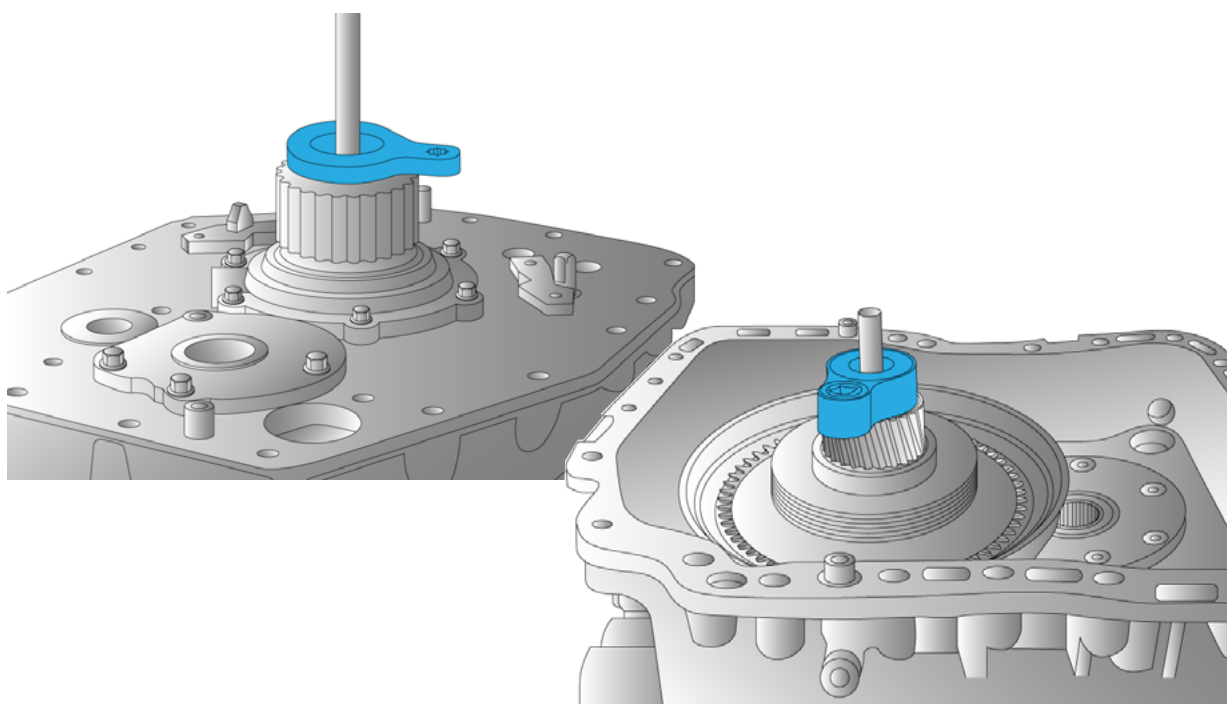
Referenza: 50105109

[vedere nel sito web](#)



Referenza: 50105127

[vedere nel sito web](#)

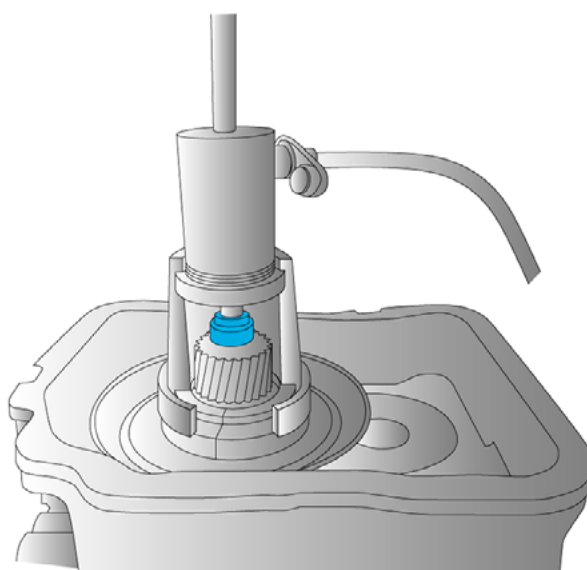


2.3 VITE PER SMONTARE/MONTARE LA SCATOLA DEL CAMBIO.



Referenza: 50105125

[vedere nel sito web](#)

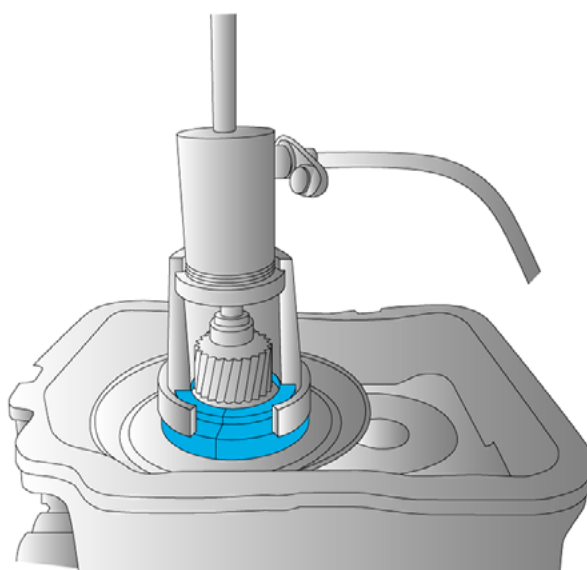


2.4 UTENSILE PER SMONTARE/MONTARE L'ANELLO DEL SINCRONIZZATORE DEL RANGE.



Referenza: 50105121

[vedere nel sito web](#)

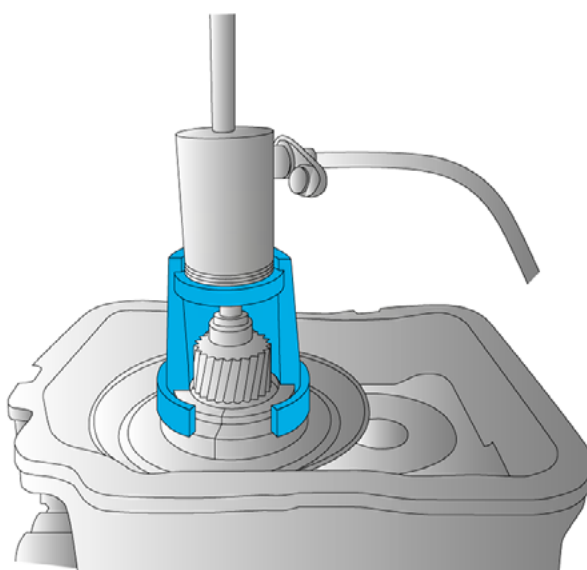


2.5 UTENSILE PER SMONTARE/MONTARE L'ANELLO DEL SINCRONIZZATORE DEL RANGE.



Referenza: 50105120

[vedere nel sito web](#)

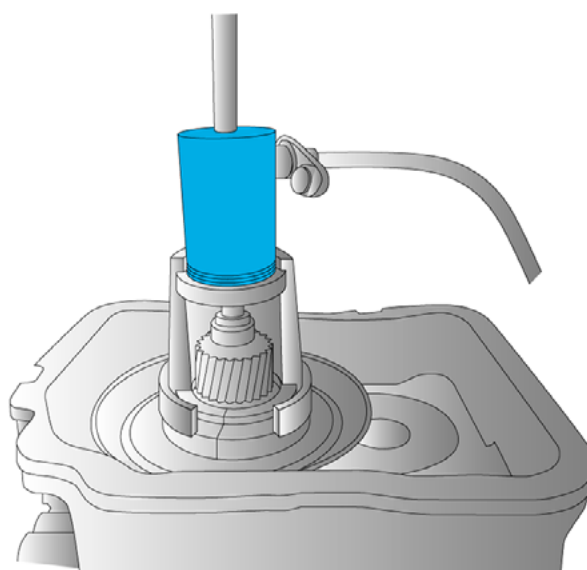


2.6 CILINDRO IDRAULICO.



Referenza: 50105123

[vedere nel sito web](#)

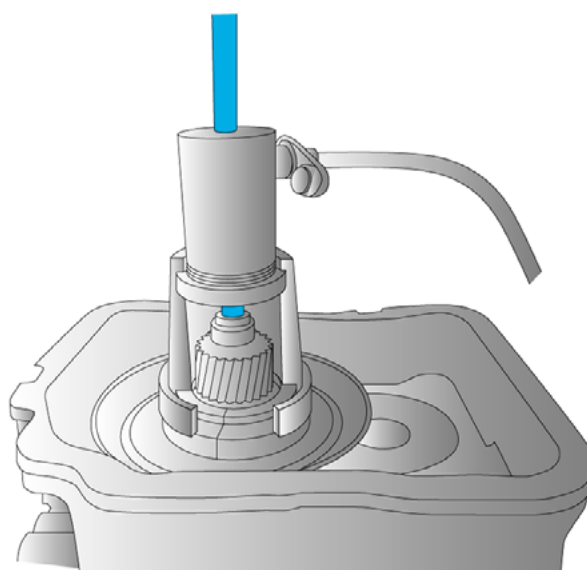


2.7 UTENSILE PER SMONTARE/MONTARE L'ANELLO DEL SINCRONIZZATORE DEL RANGE. BARRA FILETTATA.



Referenza: 50105122

[vedere nel sito web](#)

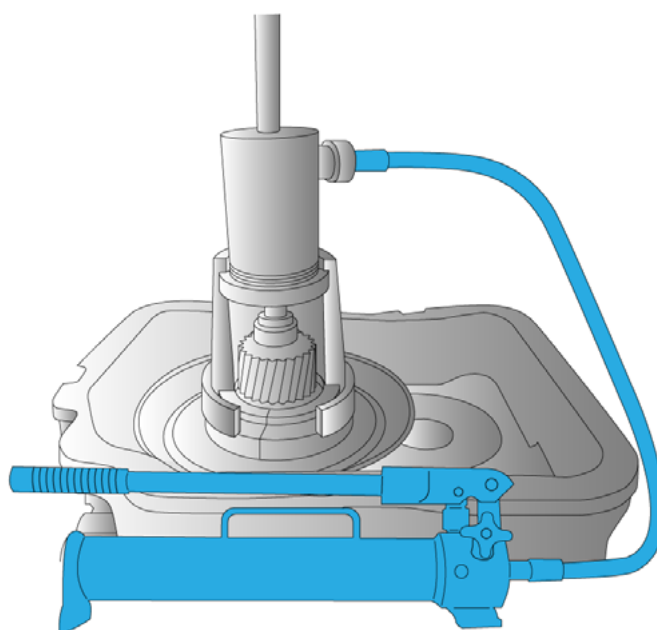


2.8 POMPA IDRAULICA MANUALE.

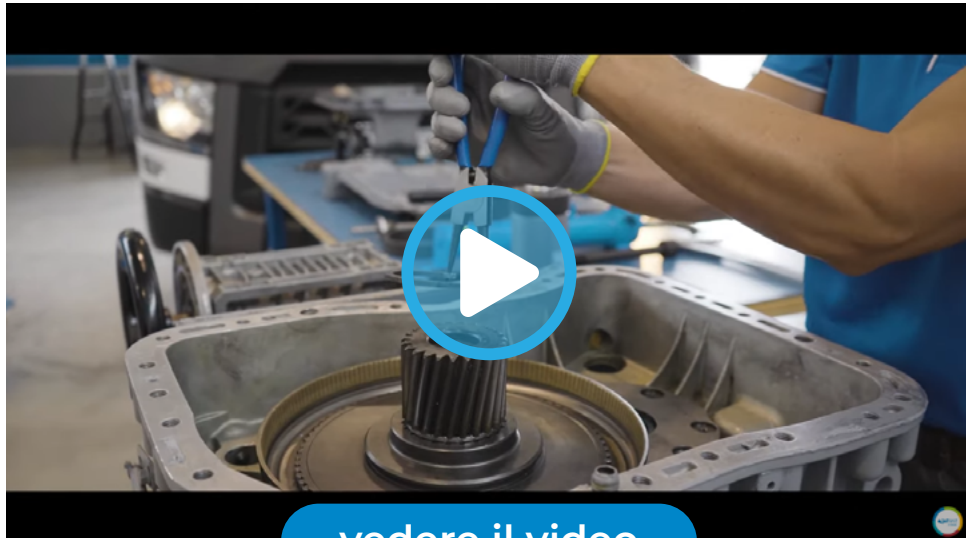


Referenza: 50105119

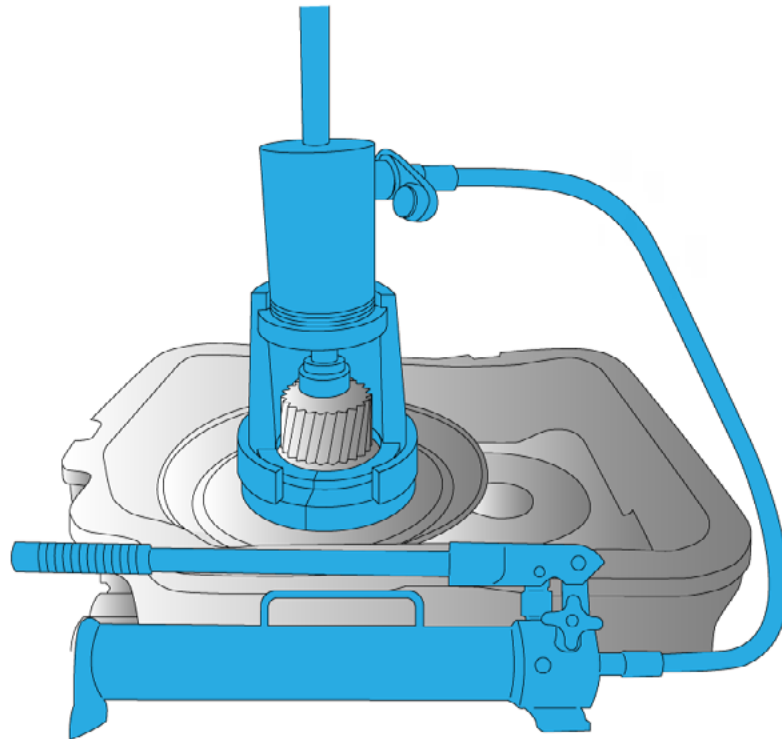
[vedere nel sito web](#)



3 Video dell'insieme



vedere il video



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