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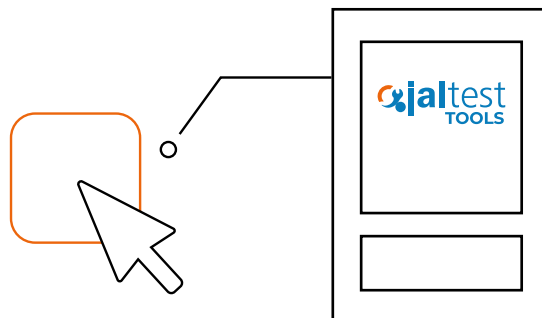
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Special tools to disassemble
and assemble gearboxes

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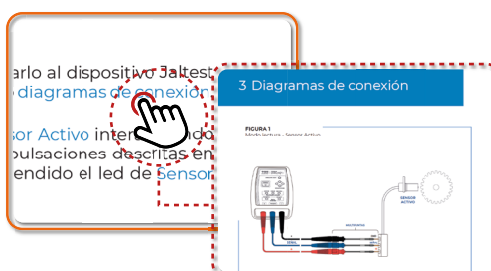
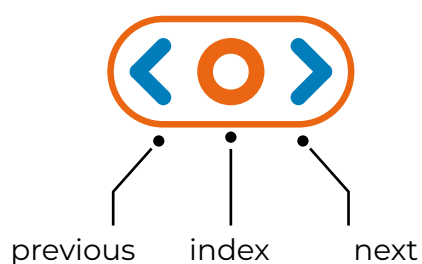


**Special tools to disassemble
and assemble gearboxes**

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Easy navigation



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1 General information

1.1 DESCRIPTION

Tool kit to disassemble and assemble the different components of i-Shift/Optidriver AT gearboxes.

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.

2. Wrench for hexagonal axle nut, dr. 1/2", 74mm. [Ref. 50105109](#)
3. Wrench for hexagonal axle nut, dr. 3/4", 50mm. [Ref. 50105127](#)
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](#)
7. Hydraulic cylinder. [Ref. 50105123](#)
8. Tool to disassemble/assemble the range synchroniser ring. Threaded bar. [Ref. 50105122](#)
9. Manual hydraulic pump. [Ref. 50105119](#)
10. Fixing plate [Ref. 50105108](#)
11. Fixing accessories [Ref. 50105197](#)
12. Tool to remove the primary shaft bearing [Ref. 50105107](#) (puller not included)

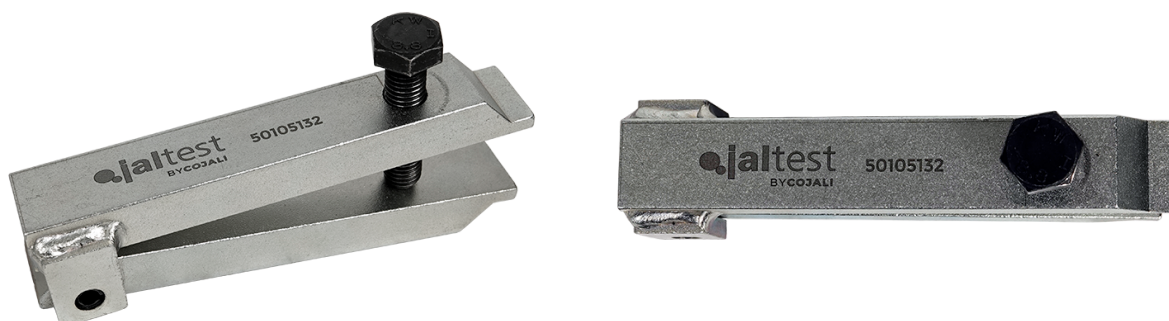


1.3 APPLICATION

i-Shift/Optidriver AT gearboxes

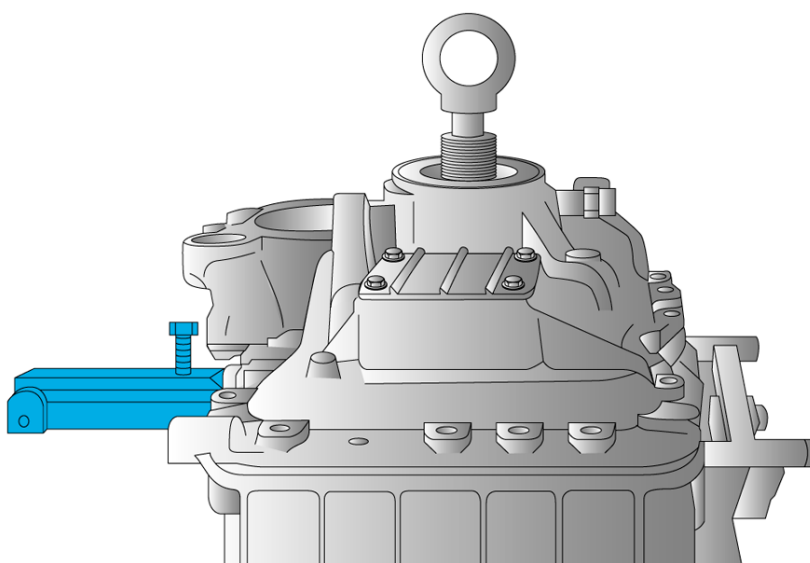
2 Component references

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



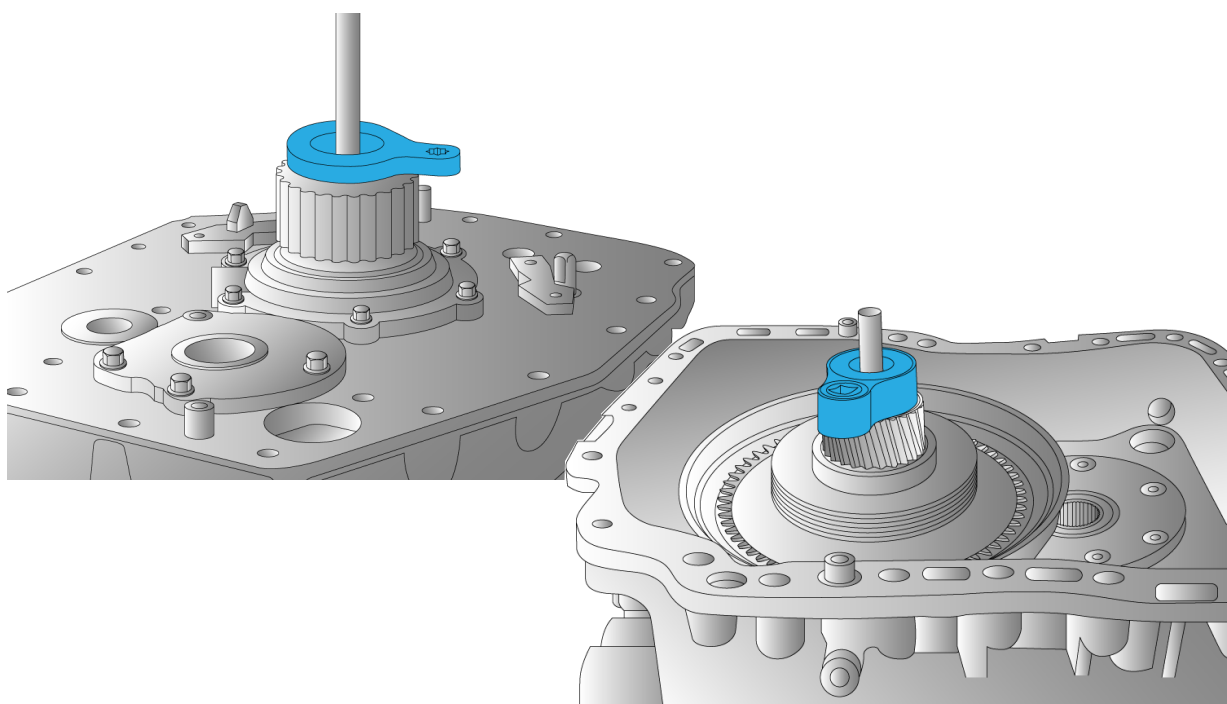
Reference: 50105109

[see on the website](#)



Reference: 50105127

[see on the website](#)

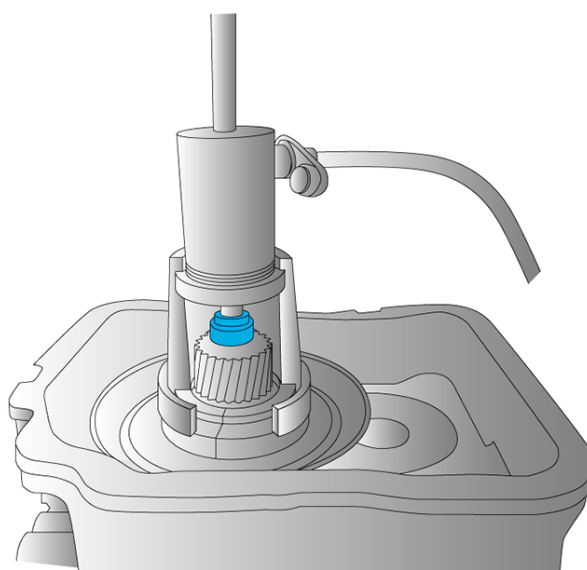


2.3 SCREW TO DISASSEMBLE/ASSEMBLE THE GEARBOX



Reference: 50105125

[see on the website](#)

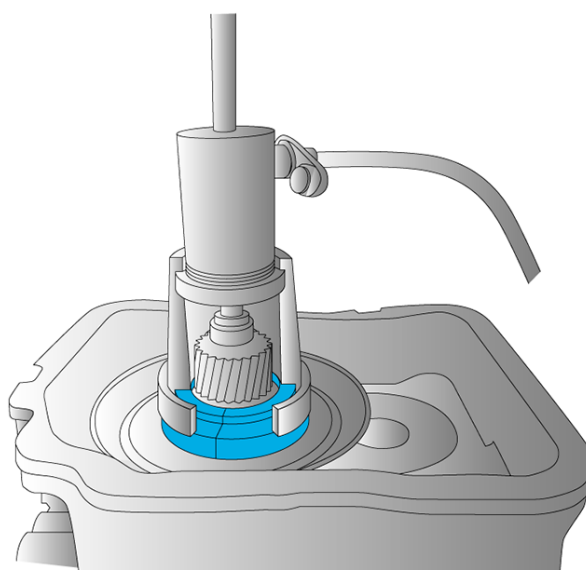


2.4 TOOL TO DISASSEMBLE/ASSEMBLE THE RANGE SYNCHRONISER RING.



Reference: 50105121

see on the website

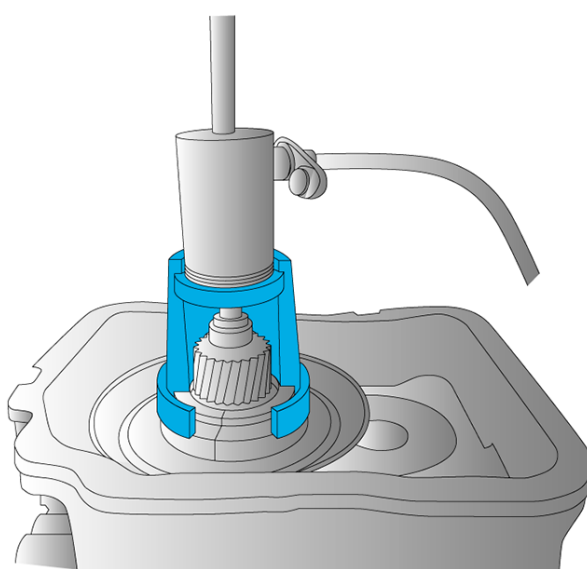


2.5 TOOL TO DISASSEMBLE/ASSEMBLE THE RANGE SYNCHRONISER RING



Reference: 50105120

[see on the website](#)

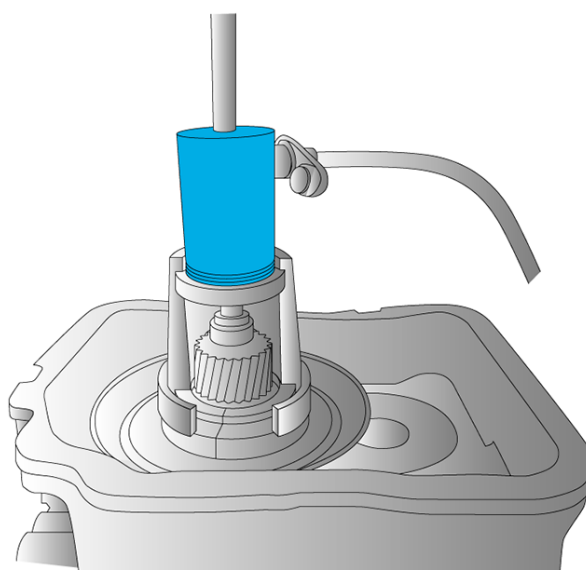


2.6 HYDRAULIC CYLINDER



Reference: 50105123

[see on the website](#)

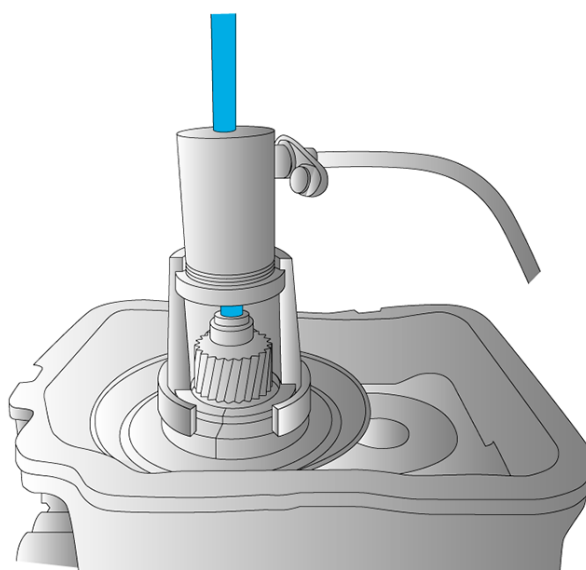


2.7 TOOL TO DISASSEMBLE/ASSEMBLE THE RANGE SYNCHRONISER RING. THREADED BAR.

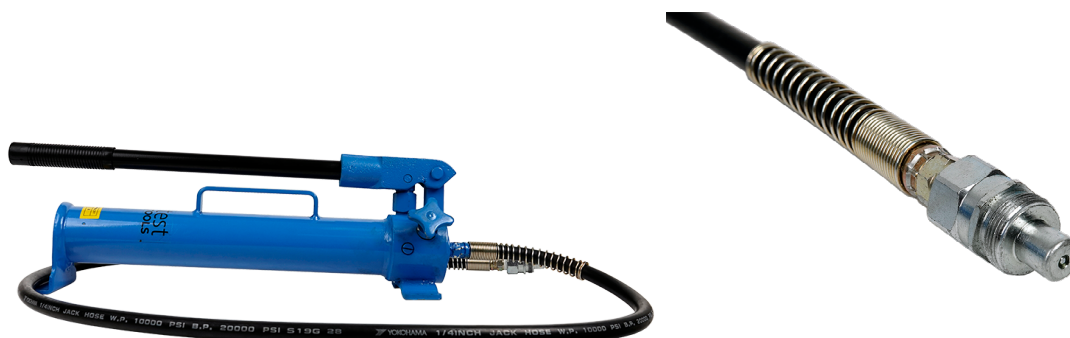


Reference: 50105122

[see on the website](#)

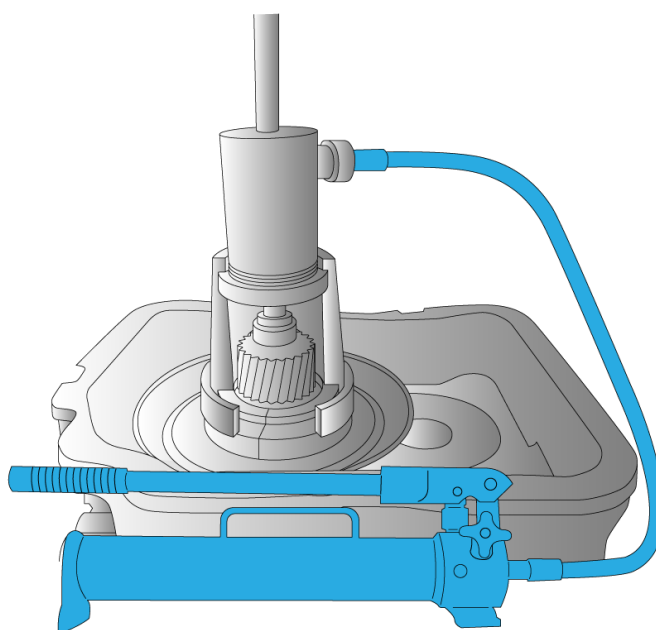


2.8 MANUAL HYDRAULIC PUMP



Reference: 50105119

see on the website

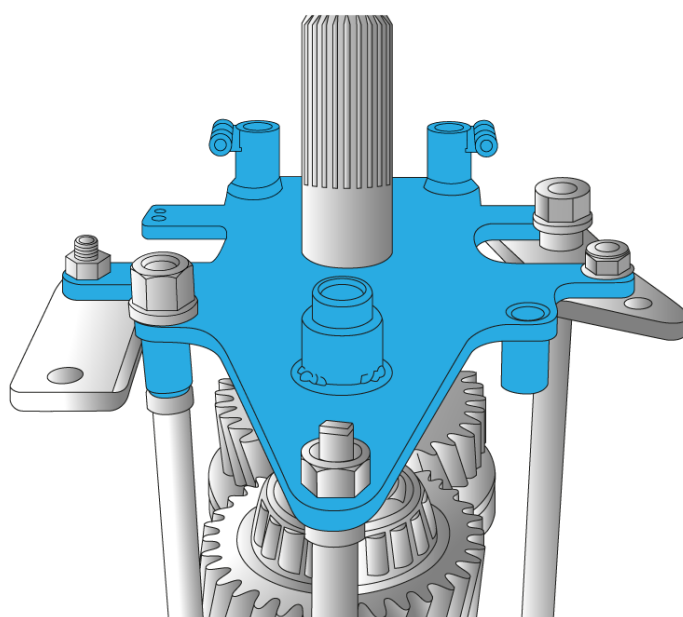


2.9 TOOL TO FIX AND LIFT THE SHAFT ASSEMBLY



Reference: 50105108

[see on the website](#)

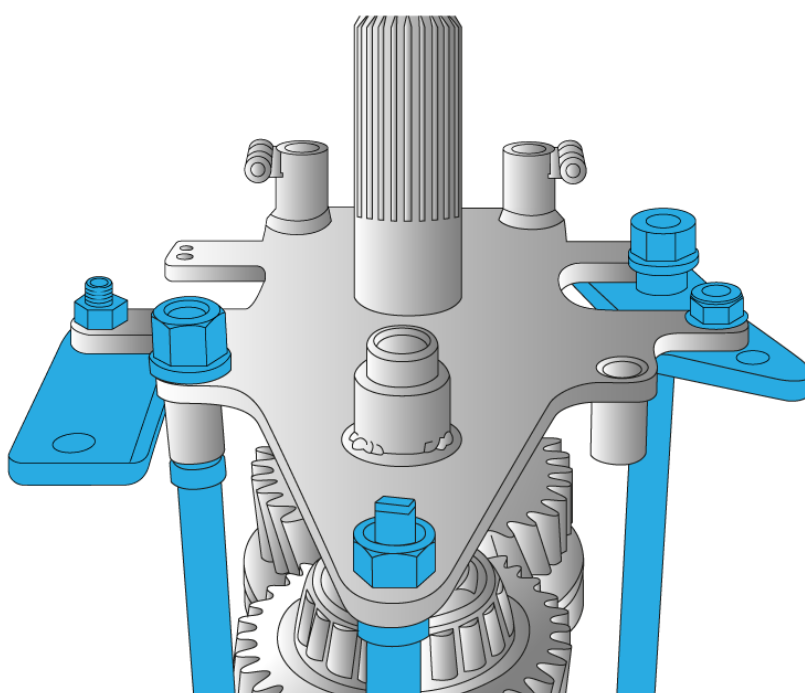


2.10 MANUAL HYDRAULIC PUMP.



Reference: 50105197

[see on the website](#)

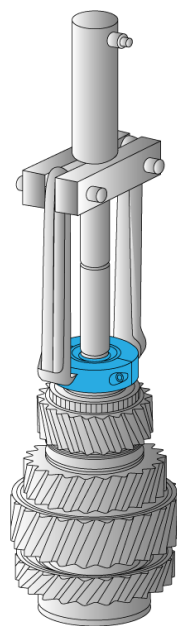


2.11 TOOL TO REMOVE THE PRIMARY SHAFT BEARING



Reference: 50105107

[see on the website](#)



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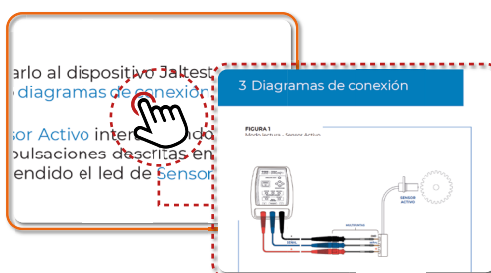
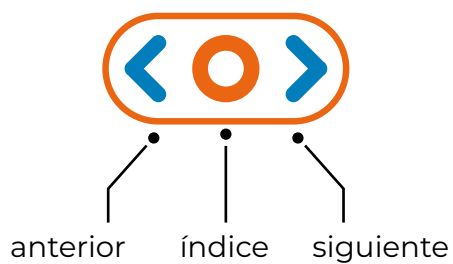


**Herramientas especiales
para desmontaje y montaje
de la caja de cambios**

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Fácil navegación



Accede más rápidamente al contenido que necesites haciendo clic

1 Información general

1.1 DESCRIPCIÓN

Conjunto de útiles y herramientas para realizar el desmontaje y montaje de los diferentes componentes de las cajas de cambio i-Shift/Optidriver AT.

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 50105210, 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](#)
10. Placa de sujeción [Ref. 50105108](#)
11. Complementos de sujeción [Ref. 50105197](#)
12. Útil para extracción de rodamiento de eje primario [Ref. 50105107](#) (no se incluye extractor)

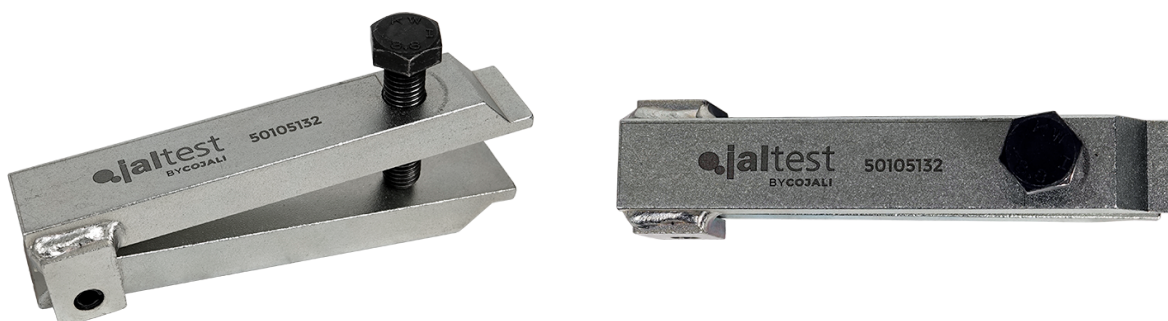


1.3 APLICACIÓN

Cajas de cambio i-Shift/Optidriver AT

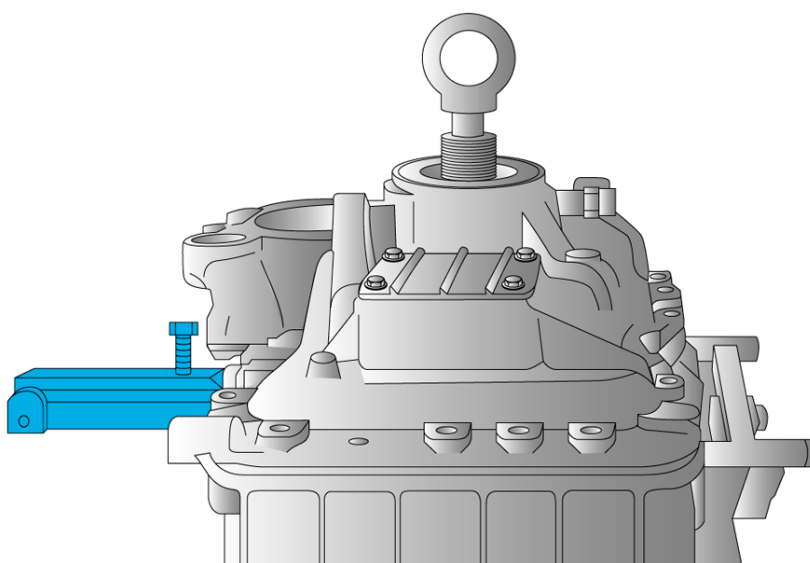
2 Referencias de componentes

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



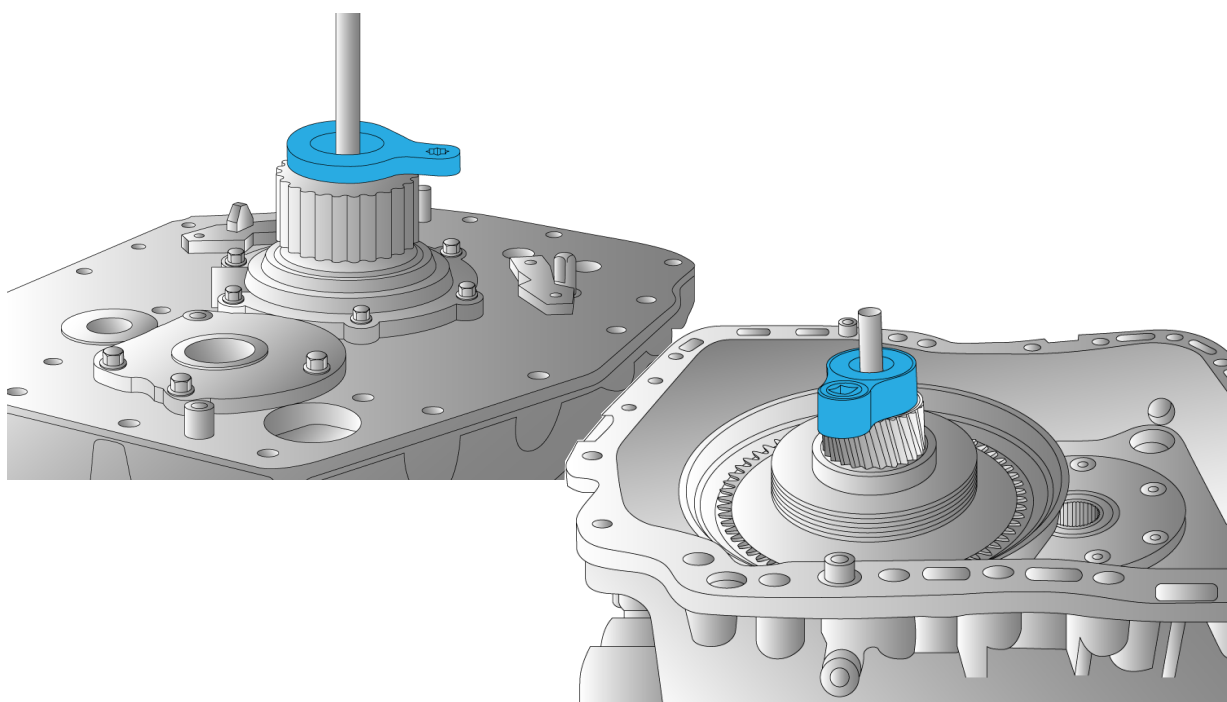
Referencia: 50105109

[ver en la web](#)



Referencia: 50105127

[ver en la web](#)

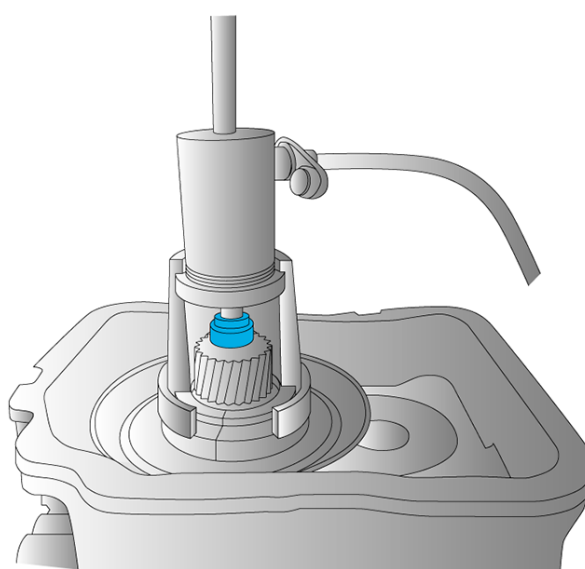


2.3 TORNILLO PARA DESMONTAJE/MONTAJE DE LA CAJA DE CAMBIOS



Referencia: 50105125

[ver en la web](#)

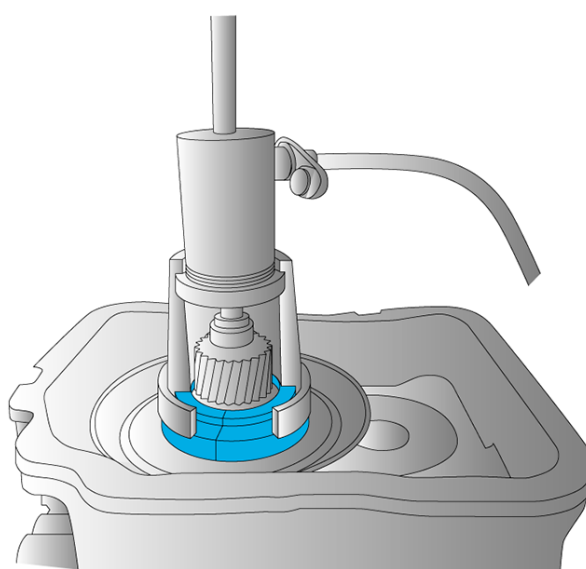


2.4 ÚTIL PARA DESMONTAJE/MONTAJE DEL ANILLO DEL SINCRONIZADOR DEL RANGE.



Referencia: 50105121

[ver en la web](#)

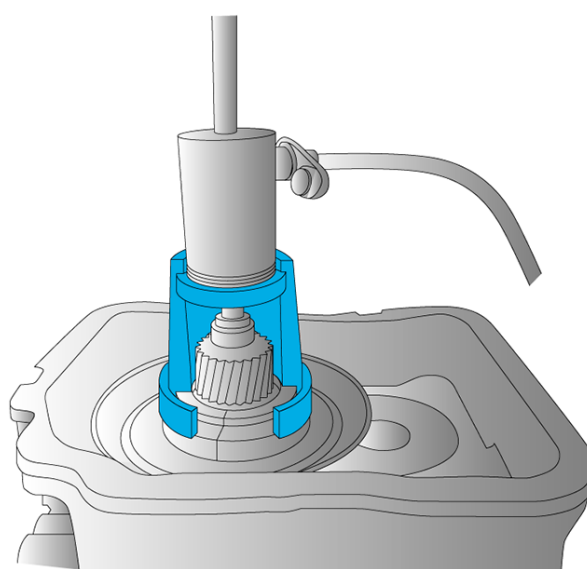


2.5 ÚTIL PARA DESMONTAJE/MONTAJE DEL ANILLO DEL SINCRONIZADOR DEL RANGE.



Referencia: 50105120

[ver en la web](#)

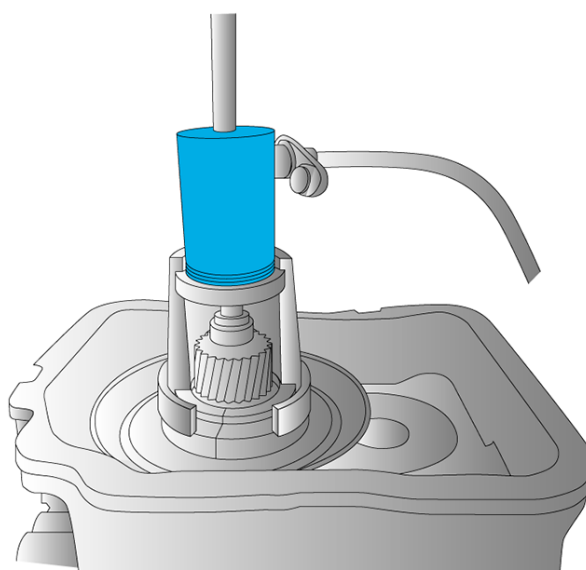


2.6 CILINDRO HIDRÁULICO



Referencia: 50105123

[ver en la web](#)

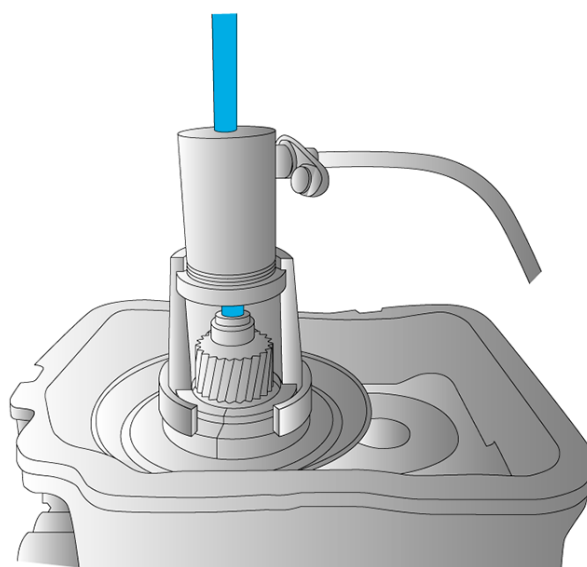


2.7 ÚTIL PARA DESMONTAJE/MONTAJE DEL ANILLO DEL SINCRONIZADOR DEL RANGE. BARRA ROSCADA

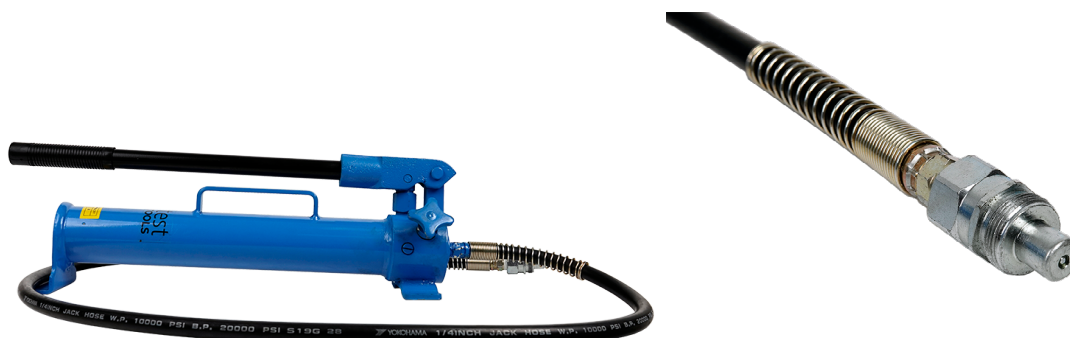


Referencia: 50105122

[ver en la web](#)

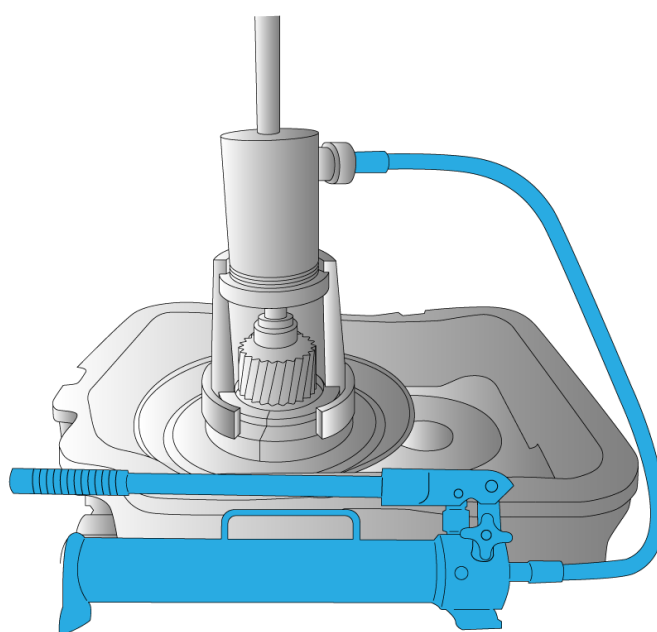


2.8 BOMBA HIDRÁULICA MANUAL



Referencia: 50105119

[ver en la web](#)

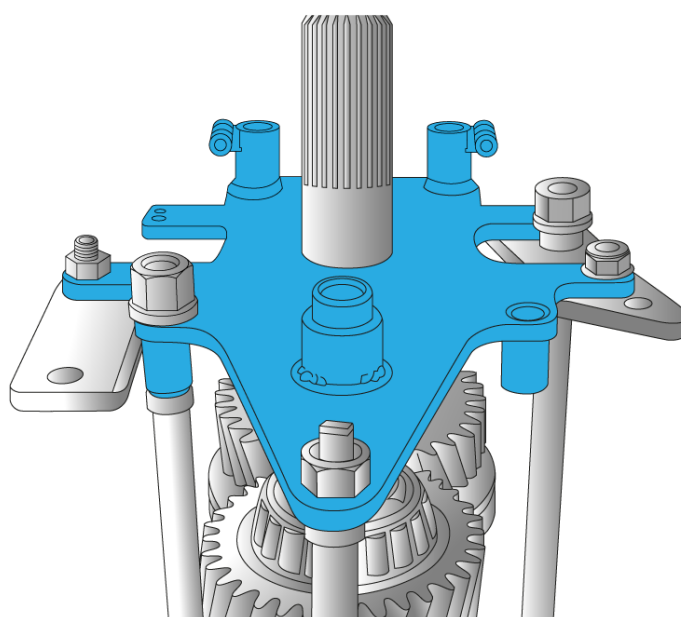


2.9 ÚTIL PARA FIJACIÓN Y ELEVACIÓN DEL CONJUNTO DE EJES

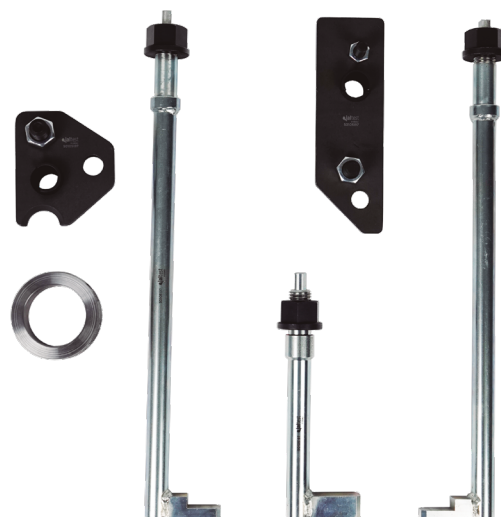


Referencia: 50105108

[ver en la web](#)

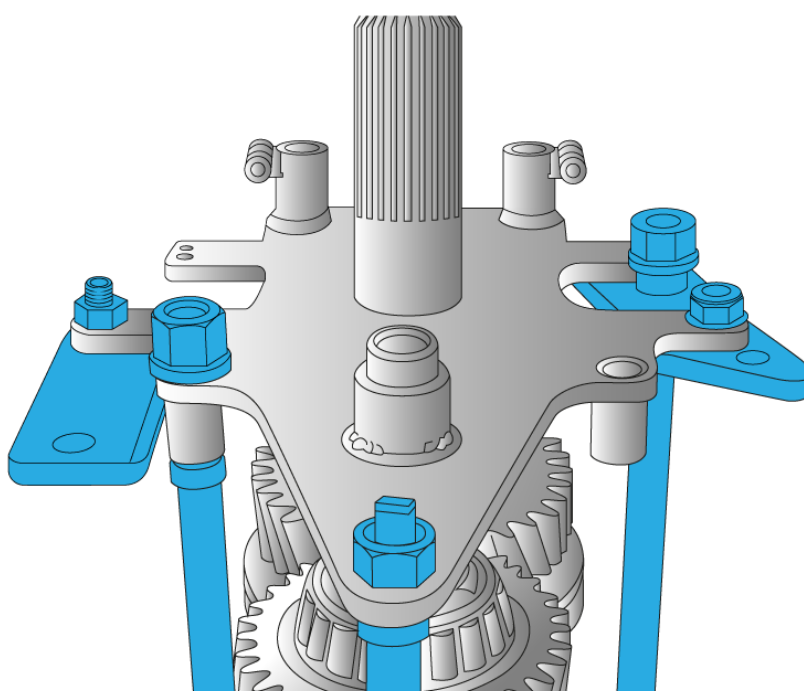


2.10 BOMBA HIDRÁULICA MANUAL



Referencia: 50105197

[ver en la web](#)

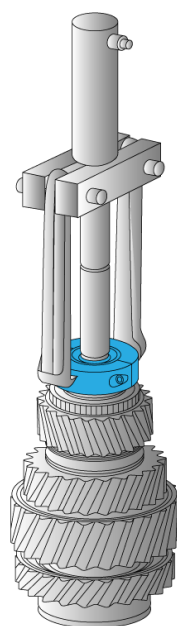


2.11 ÚTIL PARA EXTRACCIÓN DE RODAMIENTO DE EJE PRIMARIO



Referencia: 50105107

[ver en la web](#)





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Outils spéciaux pour le
démontage et le montage
de la boîte de vitesses

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Outils spéciaux pour le
démontage et le montage de
la boîte de vitesses



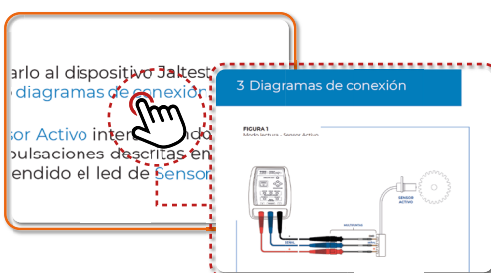
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Accédez plus rapidement au contenu dont vous avez besoin en cliquant

1 Information générale

1.1 DESCRIPTION

Ensemble des outils pour réaliser le démontage et le montage des différents composants des boîtes de vitesses i-Shift/Optidriver AT.

1.2 COMPOSITION

1. Outil d'extraction du carter du groupe multiplicateur du range. [Ref. 50105132](#)
- Note: 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. [Ref. 50105109](#)
3. Outil pour écrou hexagonal d'arbre secondaire de boîte de vitesses, d. 3/4", 50 mm. [Ref. 50105127](#)
4. Vis pour le démontage/montage du module range de la boîte de vitesses. [Ref. 50105125](#)
5. Bague d'appui pour le démontage/montage de l'anneau du module range de la boîte de vitesses. [Ref. 50105121](#)
6. Bague d'appui pour le démontage/montage de l'anneau du module range de la boîte de vitesses. [Ref. 50105120](#)
7. Vérin hydraulique. [Ref. 50105123](#)
8. Tige filetée pour le démontage/montage de l'anneau du groupe multiplicateur du range. [Ref. 50105122](#)
9. Pompe hydraulique manuelle. [Ref. 50105119](#)
10. Plaque de fixation. [Ref. 50105108](#)
11. Compléments de fixation [Ref. 50105197](#)
12. Outil pour l'extraction de roulement de l'essieu primaire Réf. [Ref. 50105107 \(extracteur non-inclus\)](#)

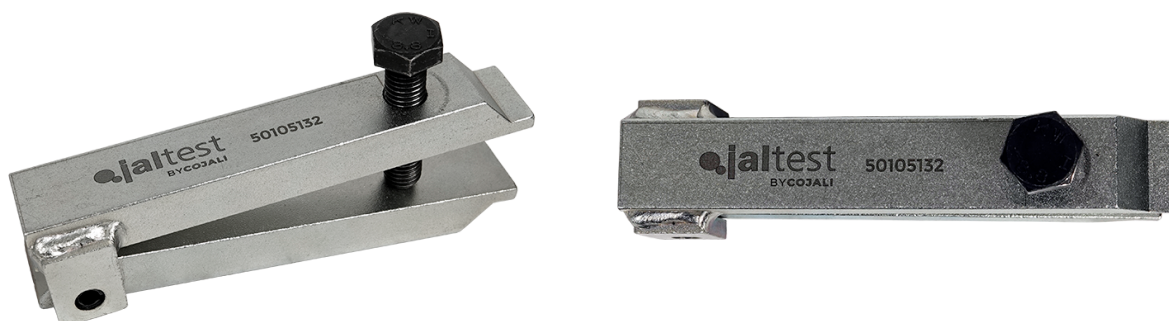


1.3 APPLICATION

Boîte de vitesses i-Shift/Optidriver AT

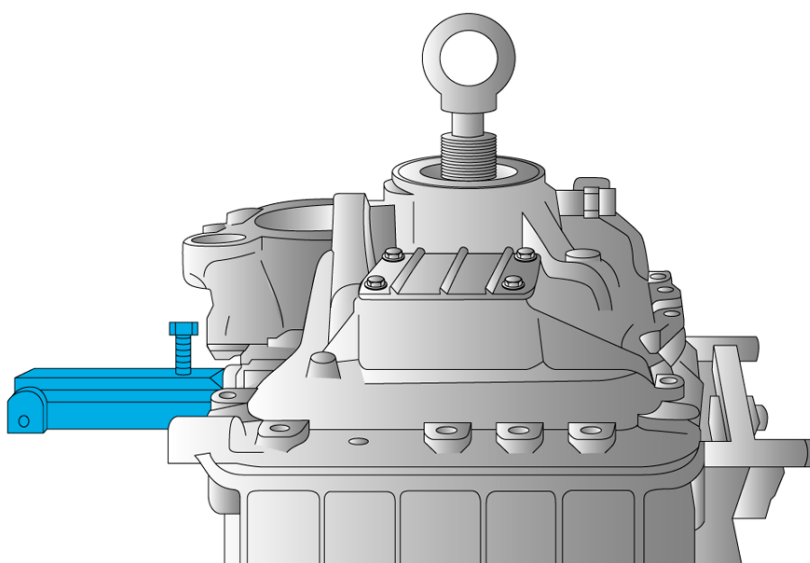
2 Références des composants

2.1 OUTIL D'EXTRACTION DU CARTER DU GROUPE MULTIPLICATEUR (RANGE)



Référence: 50105132

[voir sur le site web](#)



2.2 OUTIL POUR ÉCROU HEXAGONAL D'ARBRE SECONDAIRE DE BOÎTE DE VITESSE (1/2") 74 MM



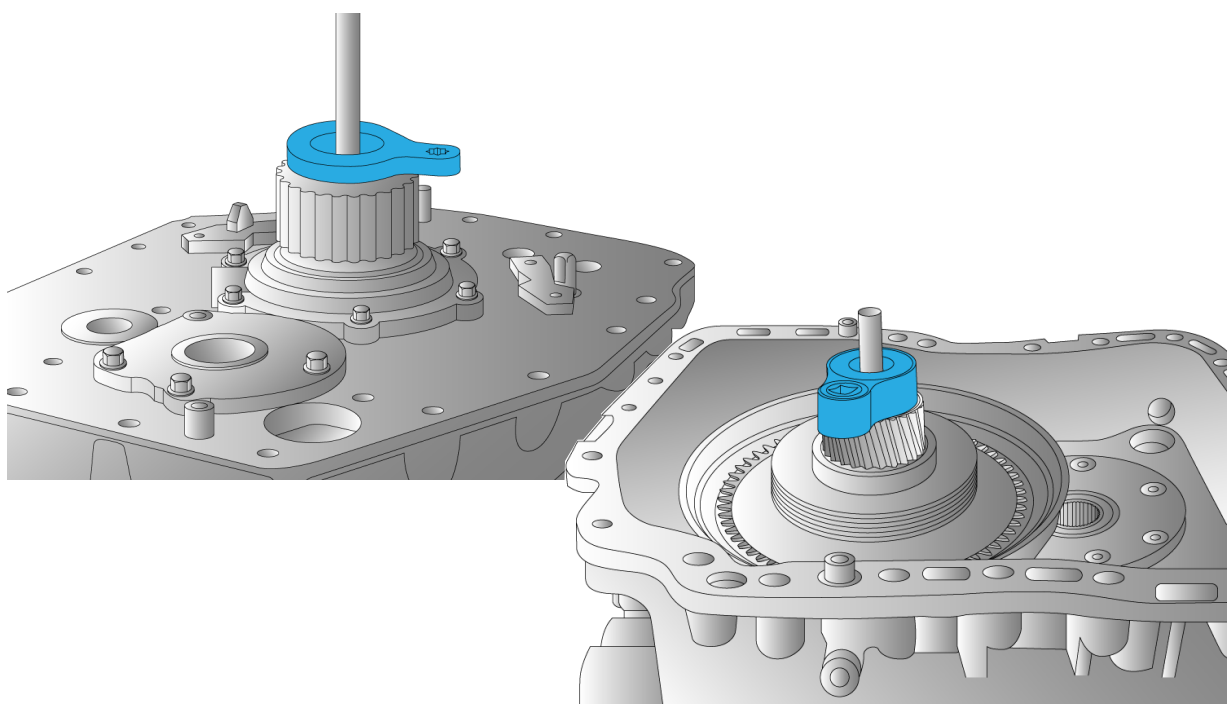
Référence: 50105109

[voir sur le site web](#)



Référence: 50105127

[voir sur le site web](#)



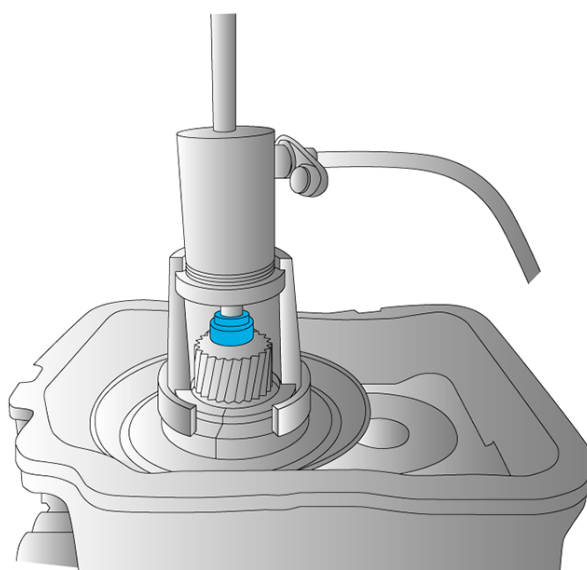


2.3 VIS POUR LE DÉMONTAGE/MONTAGE DU MODULE RANGE DE LA BOÎTE DE VITESSES



Référence: 50105125

[voir sur le site web](#)

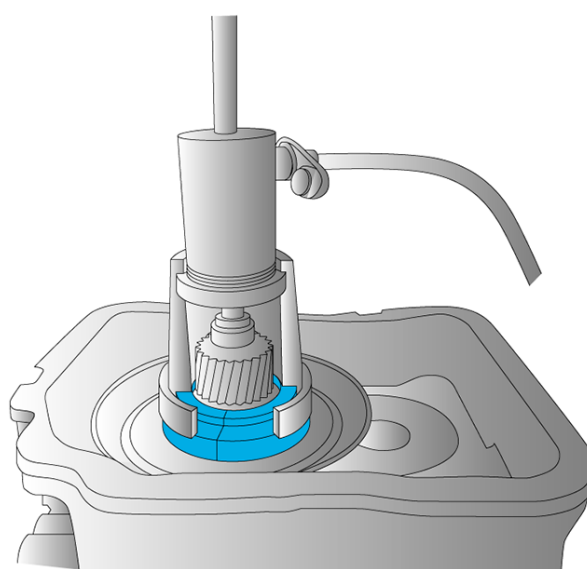


2.4 BAGUE D'APPUI POUR LE DÉMONTAGE/ MONTAGE DE L'ANNEAU DU MODULE RANGE DE LA BOÎTE DE VITESSES



Référence: 50105121

[voir sur le site web](#)

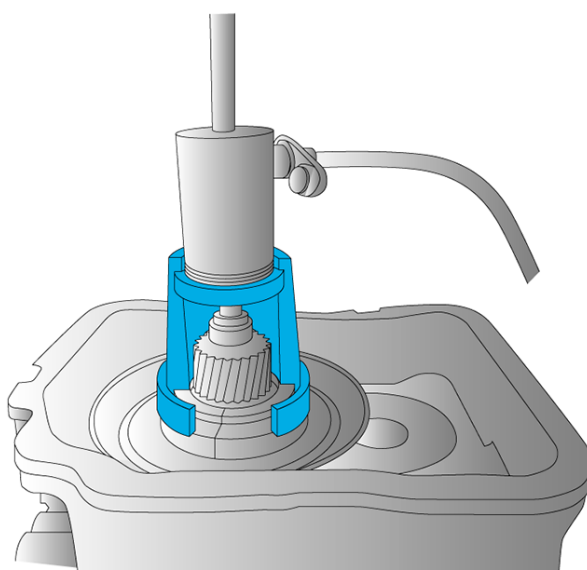


2.5 BAGUE D'APPUI POUR LE DÉMONTAGE/ MONTAGE DE L'ANNEAU DU MODULE RANGE DE LA BOÎTE DE VITESSES



Référence: 50105120

voir sur le site web

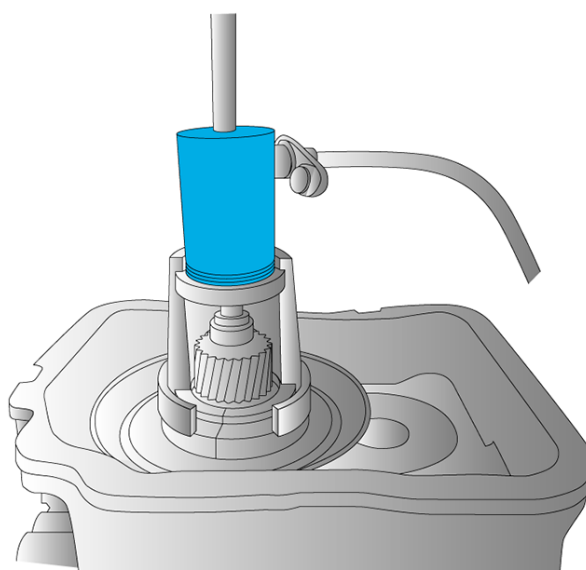


2.6 VÉRIN HYDRAULIQUE



Référence: 50105123

[voir sur le site web](#)

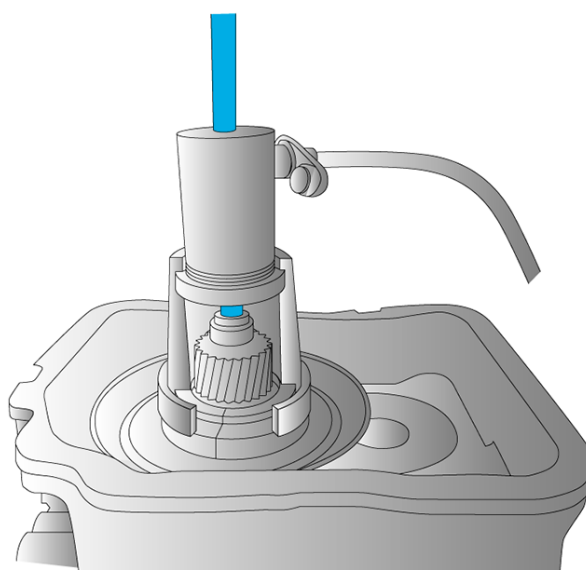


2.7 TIGE FILETÉE POUR LE DÉMONTAGE/MONTAGE DE L'ANNEAU DU GROUPE MULTIPLICATEUR (RANGE)

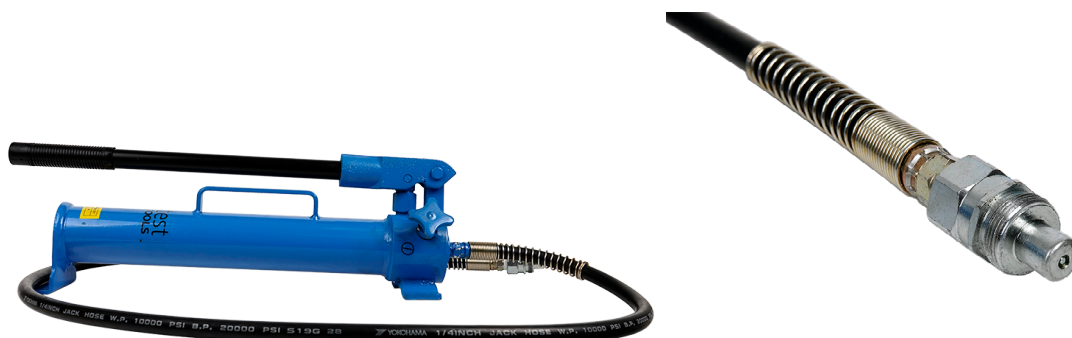


Référence: 50105122

[voir sur le site web](#)

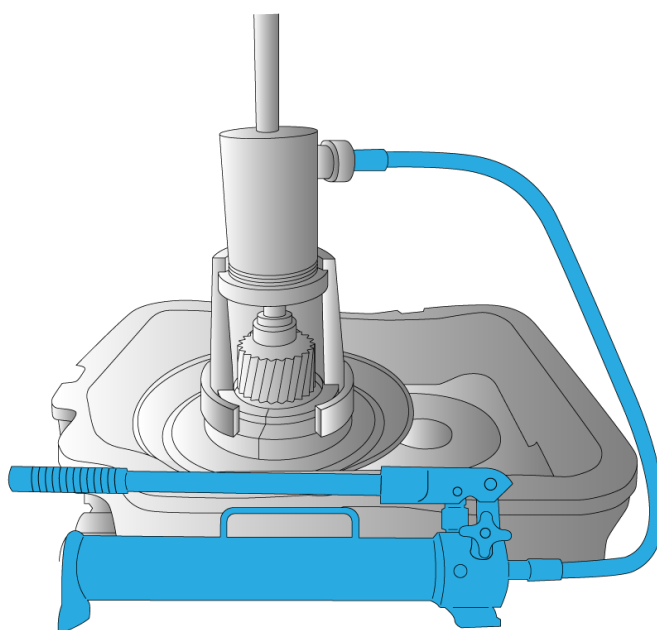


2.8 POMPE HYDRAULIQUE MANUELLE



Référence: 50105119

[voir sur le site web](#)

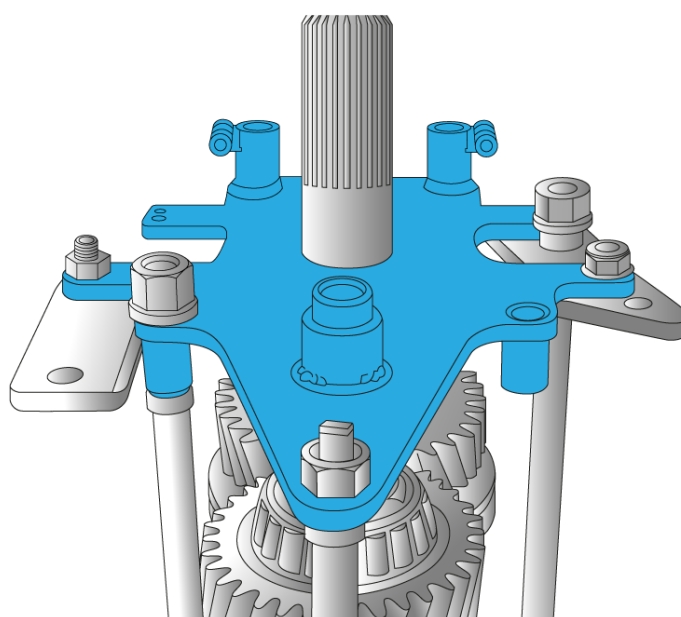


2.9 OUTIL POUR LA FIXATION ET LE LEVAGE DE L'ENSEMBLE DES ESSIEUX

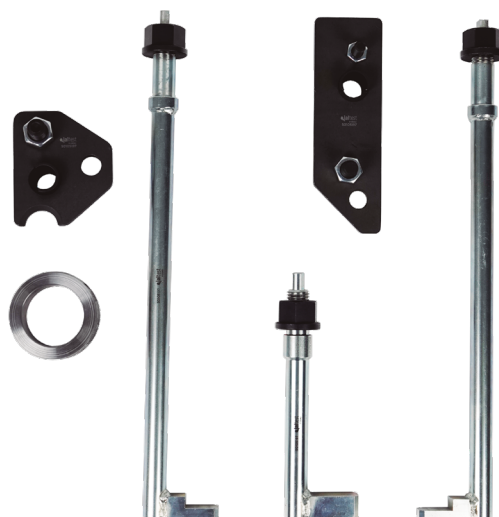


Référence: 50105108

[voir sur le site web](#)

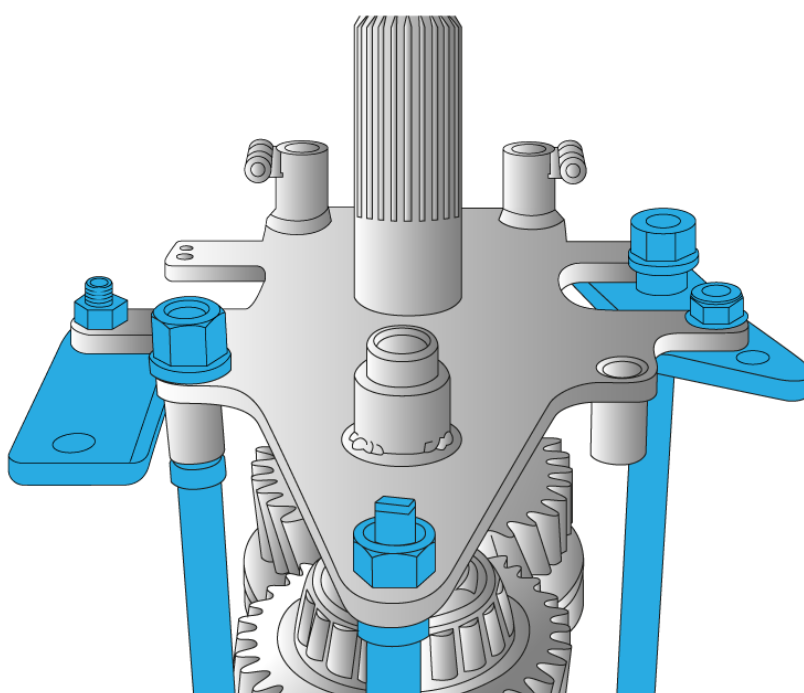


2.10 OUTIL POUR LA FIXATION ET LE LEVAGE DE L'ENSEMBLE DES ESSIEUX



Référence: 50105197

[voir sur le site web](#)

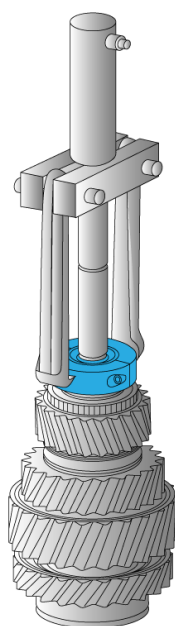


2.11 ANNEAU POUR EXTRACTION DU ROULEMENT DE L'ARBRE PRIMAIRE DE BOÎTE DE VITESSES



Référence: 50105107

[voir sur le site web](#)





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**Attrezzi speciali per
smontare e montare la
scatola del cambio**

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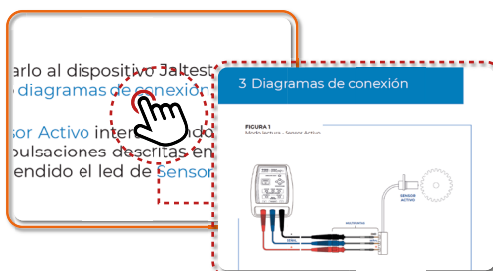
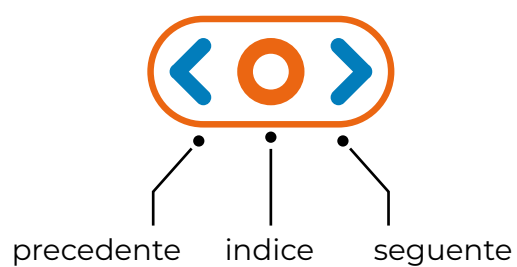


**Attrezzi speciali per
smontare e montare la
scatola del cambio**

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2. Referenze dei componenti	5

Navigazione facilitata



Accedere al
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un click

1 Informazioni generali

1.1 DESCRIZIONE

Insieme di utensili e attrezzi per smontare e montare l'anello dei vari componenti delle scatole del cambio i-Shift/Optidriver AT.

1.2 COMPOSIZIONE

1. Utensile per smontare il tappo del range. [Ref. 50105132](#)
Nota: se si acquista la referencia 50105132 separatamente, la confezione contiene 1 pezzo. Quando si acquista il kit 50105208, i pezzi forniti sono 2.
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. 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. 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](#)
10. Piastra di sostegno [Ref. 50105108](#)
11. Accessori di fissaggio [Ref. 50105197](#)
12. Utensile per l'estrazione del cuscinetto dell'albero primario. [Ref. 50105107](#) (estrattore non incluso)

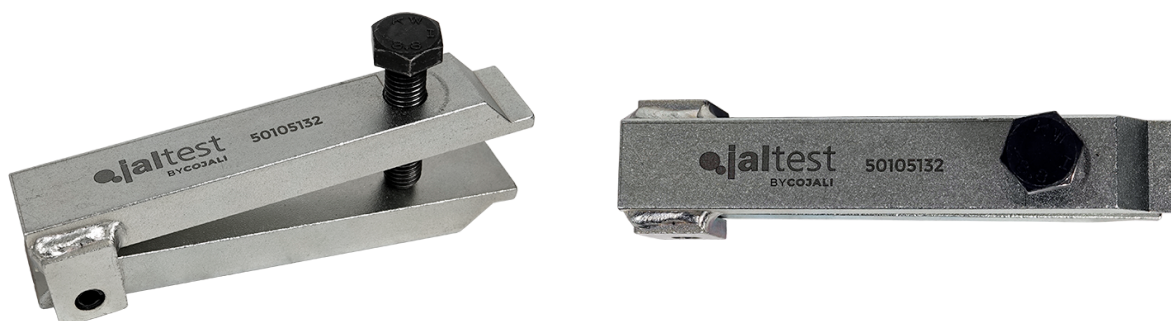


1.3 APPLICAZIONI

Scatole del cambio i-Shift/Optidriver AT

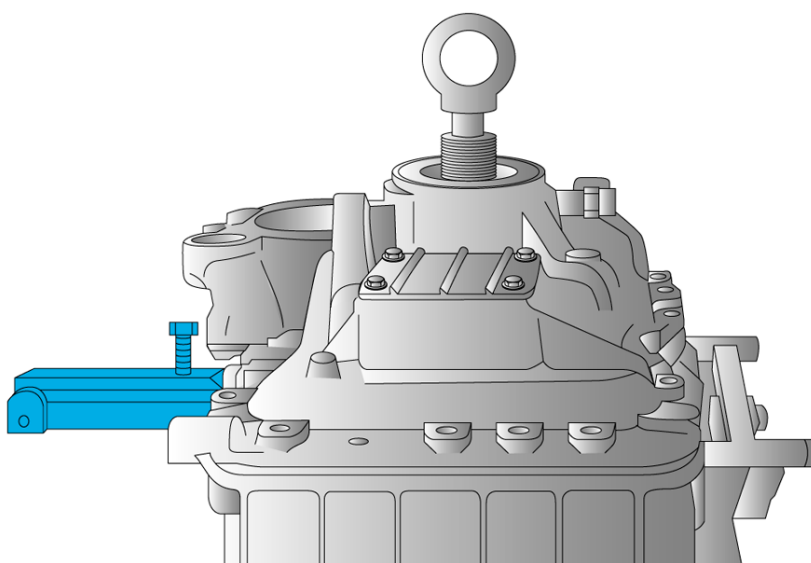
2 Referenze dei componenti

2.1 UTENSILE PER SMONTARE IL TAPPO DEL RANGE



Referenza: 50105132

[vedere nel sito web](#)



2.2 CHIAVE PER DADO ASSE ESAGONALE, DR. 1/2", 74 MM



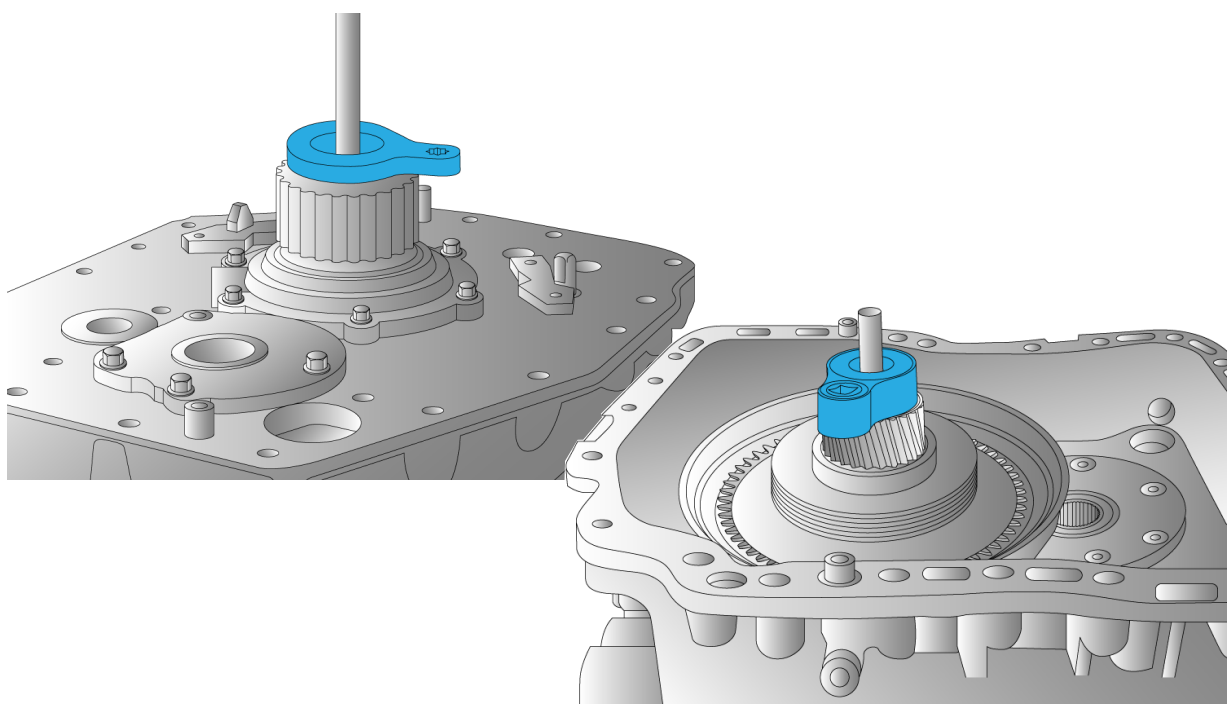
Referenza: 50105109

[vedere nel sito web](#)



Referenza: 50105127

[vedere nel sito web](#)

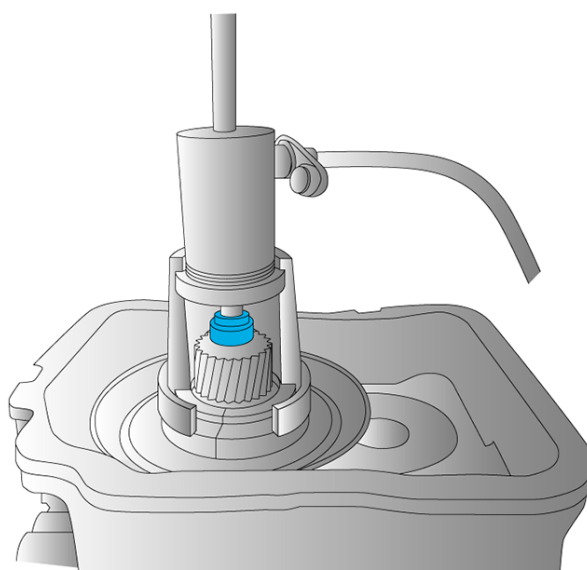


2.3 VITE PER SMONTAGGIO/MONTAGGIO DELLA SCATOLA DEL CAMBIO



Referenza: 50105125

[vedere nel sito web](#)

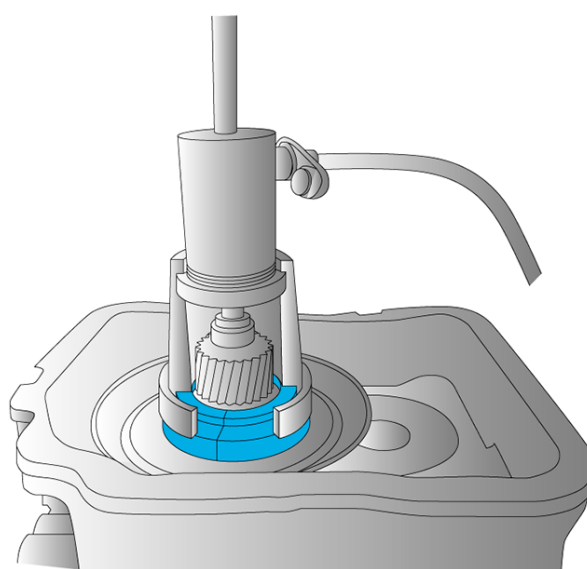


2.4 UTENSILE PER SMONTAGGIO/MONTAGGIO DELL'ANELLO DEL SINCRONIZZATORE DEL RANGE



Referenza: 50105121

[vedere nel sito web](#)

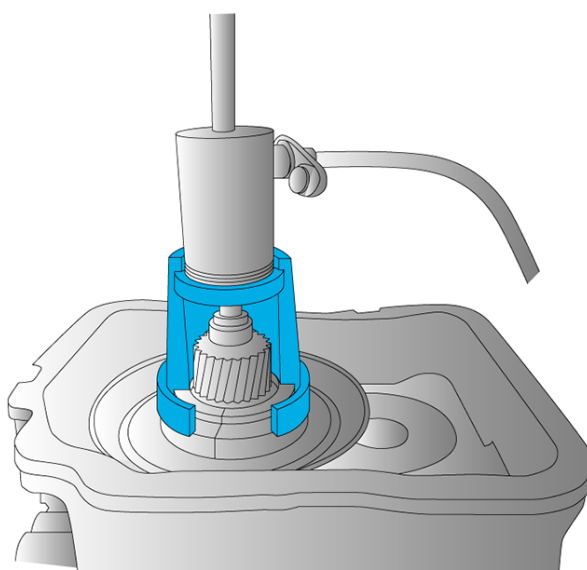


2.5 UTENSILE PER SMONTAGGIO/MONTAGGIO DELL'ANELLO DEL SINCRONIZZATORE DEL RANGE



Referenza: 50105120

vedere nel sito web

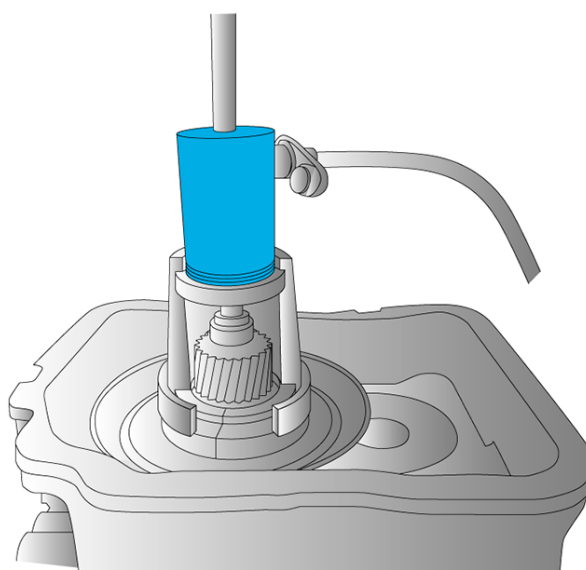


2.6 CILINDRO IDRAULICO



Referenza: 50105123

[vedere nel sito web](#)

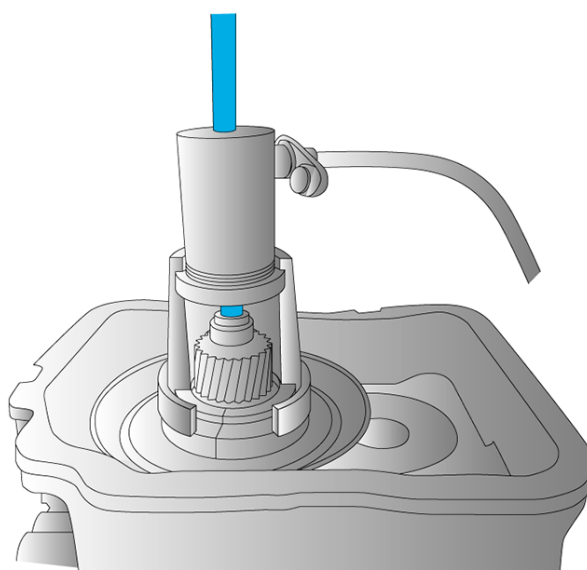


2.7 UTENSILE PER SMONTAGGIO/MONTAGGIO DELL'ANELLO DEL SINCRONIZZATORE DEL RANGE.

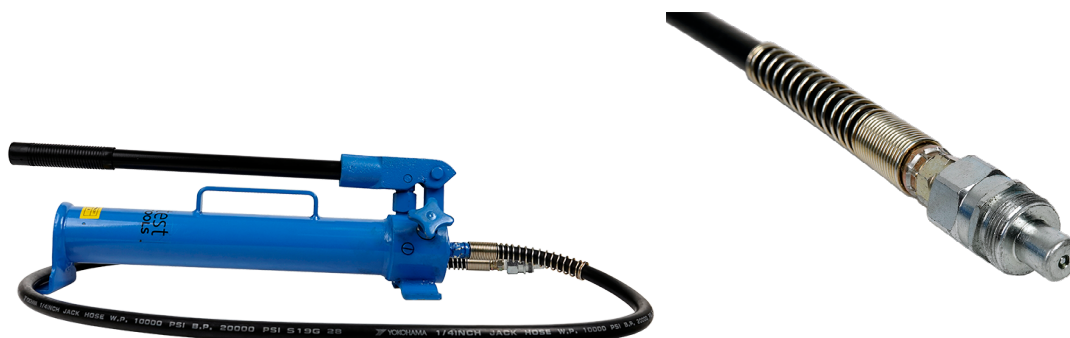


Referenza: 50105122

[vedere nel sito web](#)

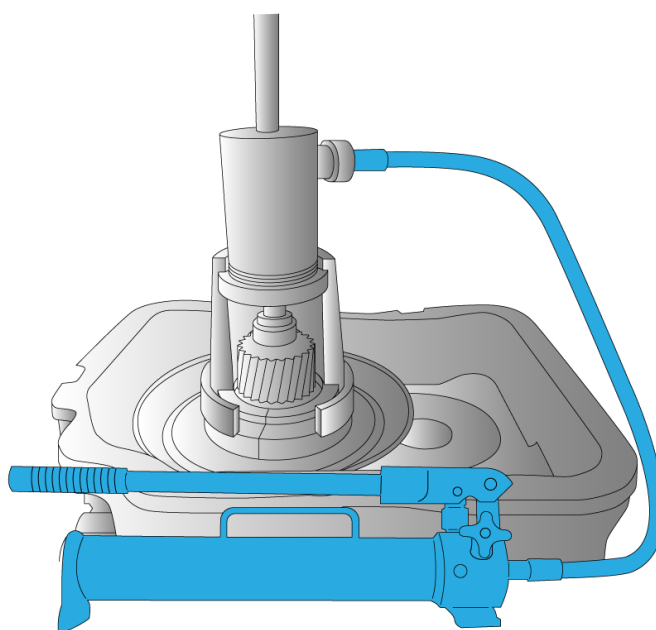


2.8 POMPA IDRAULICA MANUALE



Referenza: 50105119

[vedere nel sito web](#)

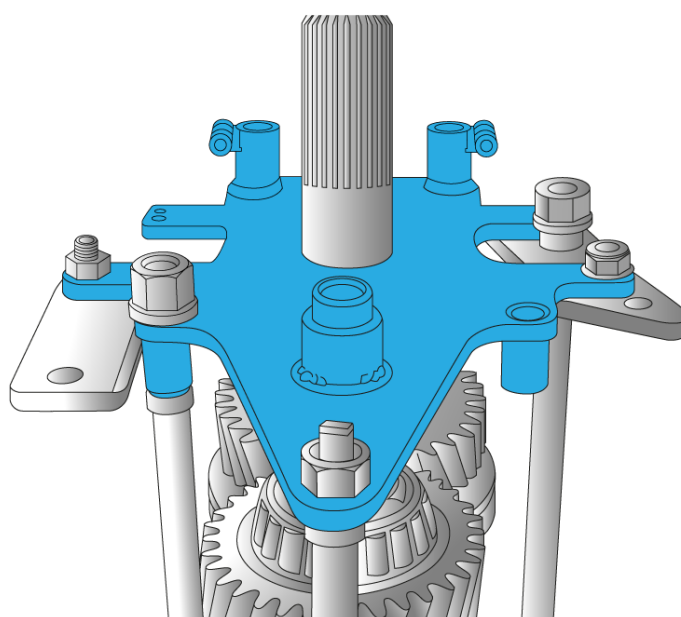


2.9 UTENSILE PER FISSARE E SOLLEVARE L'INSIEME DI ALBERI



Referenza: 50105108

[vedere nel sito web](#)

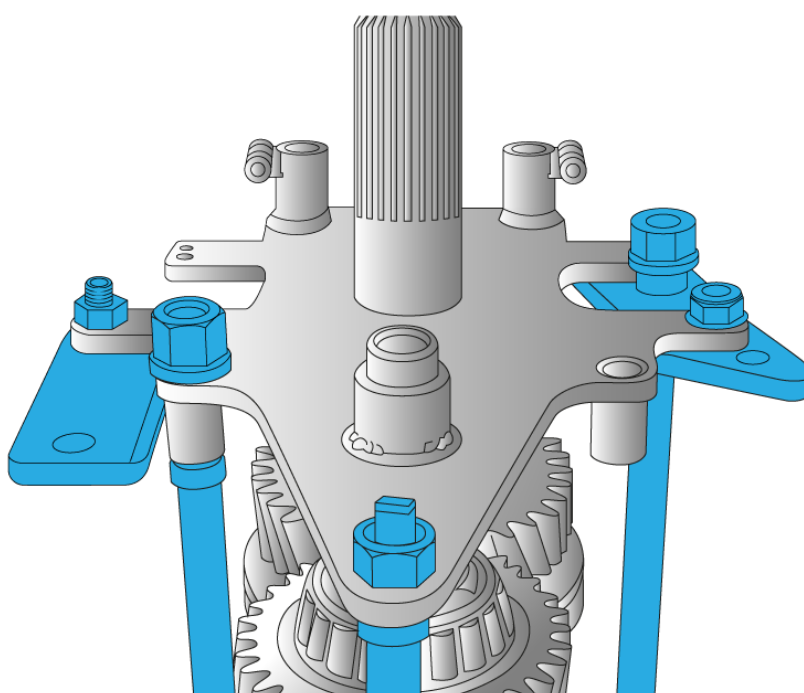


2.10 UTENSILE PER FISSARE E SOLLEVARE L'INSIEME DI ALBERI



Referenza: 50105197

[vedere nel sito web](#)

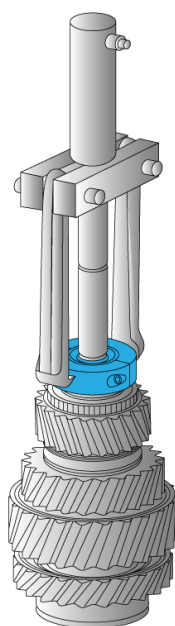


2.11 UTENSILE PER L'ESTRAZIONE DEL CUSCINETTO DELL'ALBERO PRIMARIO



Referenza: 50105107

[vedere nel sito web](#)



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Ferramentas especiais
para a desmontagem e
montagem da caixa de
velocidades

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INNOVATION & TECHNOLOGY



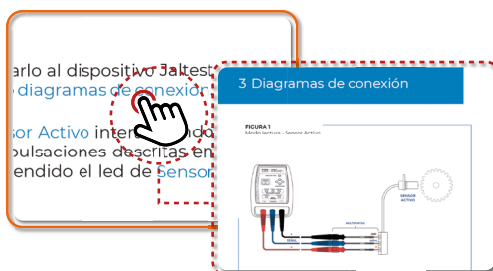
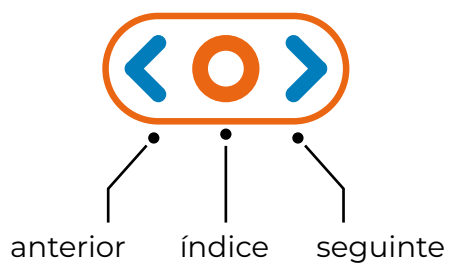
**Ferramentas especiais para a
desmontagem e montagem
da caixa de velocidades**



Índice

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2. Referências de componentes	5

Navegação fácil



Aceda mais rapidamente ao conteúdo de que necessita, clicando

1 Informação geral

1.1 DESCRIÇÃO

Conjunto de ferramentas e utensílios para realizar a desmontagem e montagem dos diferentes componentes das caixas de velocidades i-Shift/Optidriver AT.

1.2 COMPOSIÇÃO

1. Ferramenta para a desmontagem da tampa da gama. [Ref. 50105132](#)
Nota: Se a referência 50105132 for adquirida separadamente, a caixa contém 1 unidade. Ao adquirir o kit 50105208, são incluídas 2 unidades.
2. Chave para porca de eixo hexagonal, dr. 1/2", 74 mm. [Ref. 50105109](#)
3. Chave para porca de eixo hexagonal, dr. 3/4", 50 mm. [Ref. 50105127](#)
4. Parafuso para desmontagem/montagem da caixa de velocidades. [Ref. 50105125](#)
5. Ferramenta para desmontagem/montagem do anel sincronizador da gama. [Ref. 50105121](#)
6. Ferramenta para desmontagem/montagem do anel sincronizador da gama. [Ref. 50105120](#)
7. Cilindro hidráulico. [Ref. 50105123](#)
8. Ferramenta para desmontagem/montagem do anel sincronizador da gama. Barra roscada. [Ref. 50105122](#)
9. Bomba hidráulica manual. [Ref. 50105119](#)
10. Placa de fixação [Ref. 50105108](#)
11. Acessórios de fixação [Ref. 50105197](#)
12. Ferramenta para extração de rolamento de eixo primário [Ref. 50105107 \(extrator não incluído\)](#)

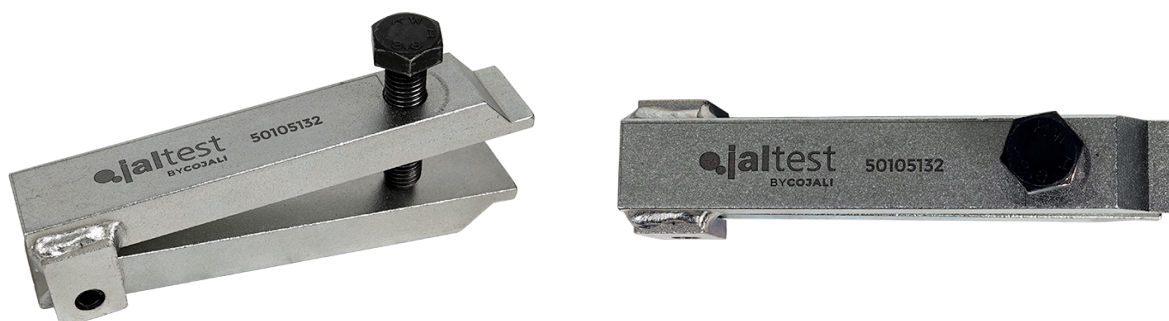


1.3 APLICAÇÃO

Caixas de velocidades i-Shift/Optidriver AT

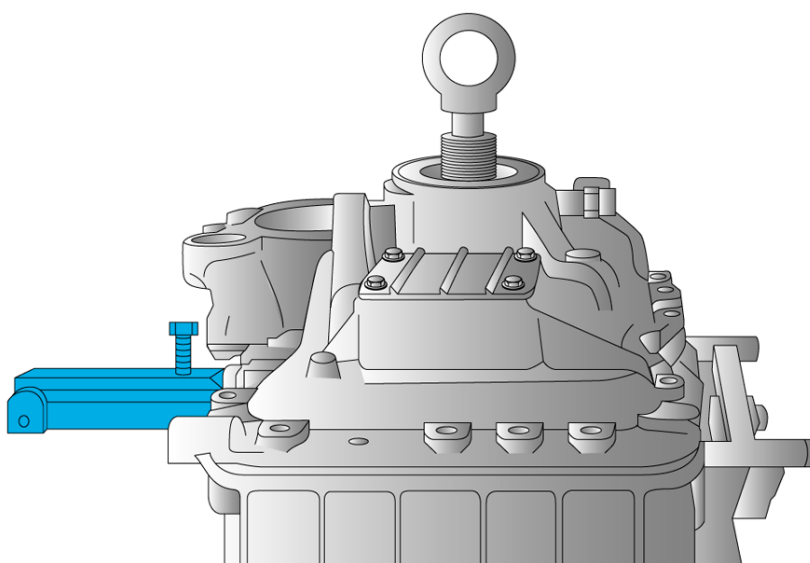
2 Referências de componentes

2.1 FERRAMENTA PARA DESMONTAR A TAMPA DA GAMA



Referência: 50105132

[ver na web](#)



2.2 CHAVE PARA PORCA DE EIXO HEXAGONAL, DR. 1/2", 74 MM



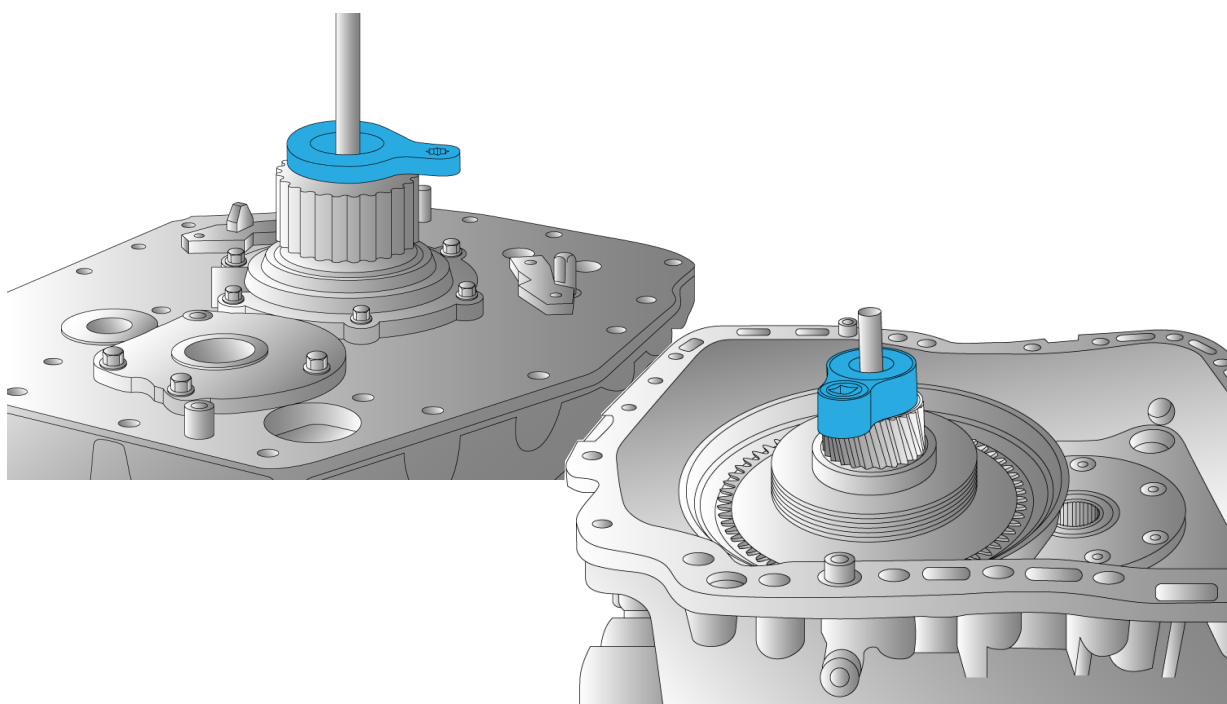
Referência: 50105109

[ver na web](#)



Referência: 50105127

[ver na web](#)

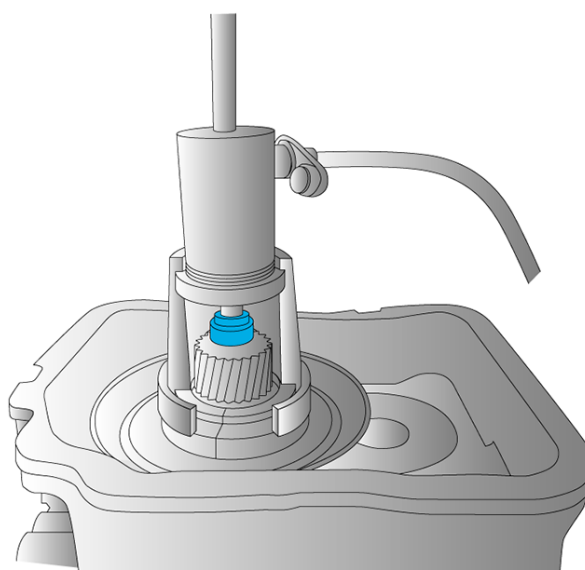


2.3 PARAFUSO PARA DESMONTAGEM/MONTAGEM DA CAIXA DE VELOCIDADES



Referência: 50105125

[ver na web](#)

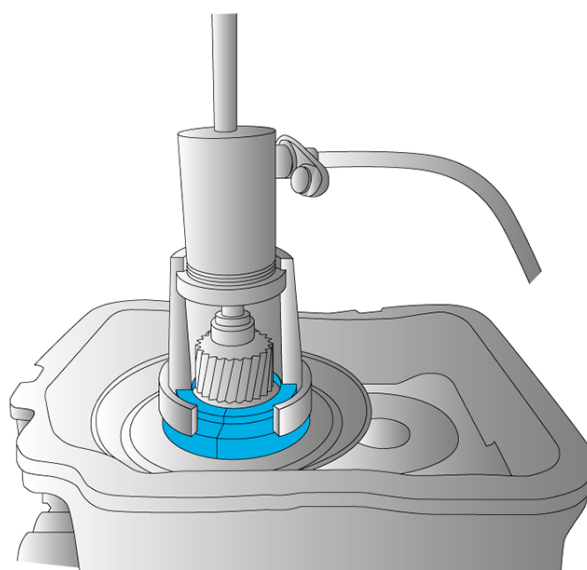


2.4 FERRAMENTA PARA DESMONTAGEM/ MONTAGEM DO ANEL SINCRONIZADOR DA GAMA



Referência: 50105121

[ver na web](#)

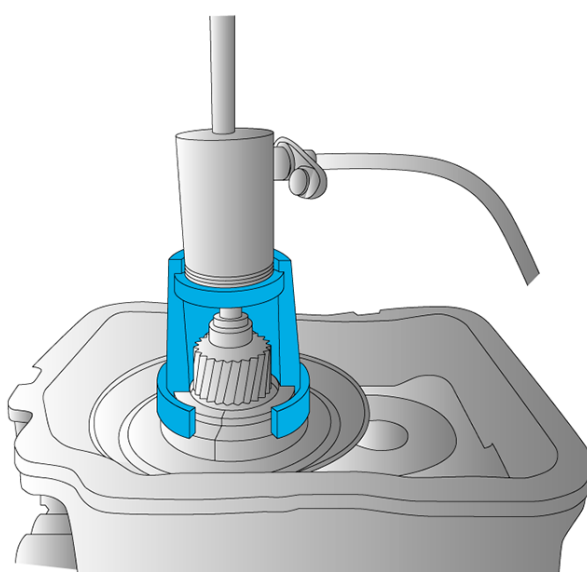


2.5 FERRAMENTA PARA DESMONTAGEM/ MONTAGEM DO ANEL SINCRONIZADOR DA GAMA



Referência: 50105120

[ver na web](#)

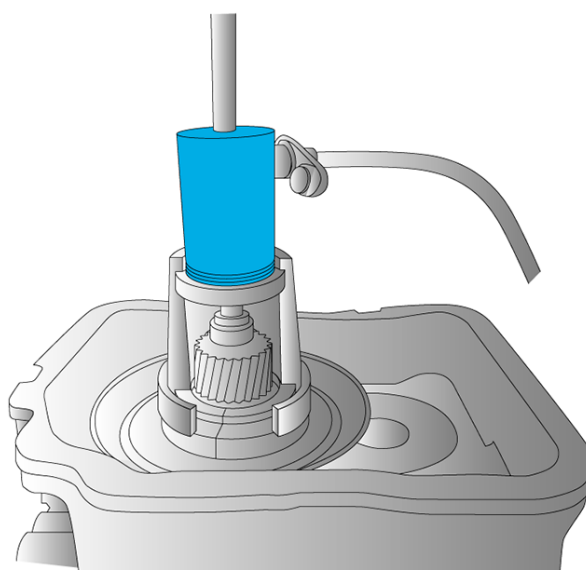


2.6 CILINDRO HIDRÁULICO



Referência: 50105123

[ver na web](#)

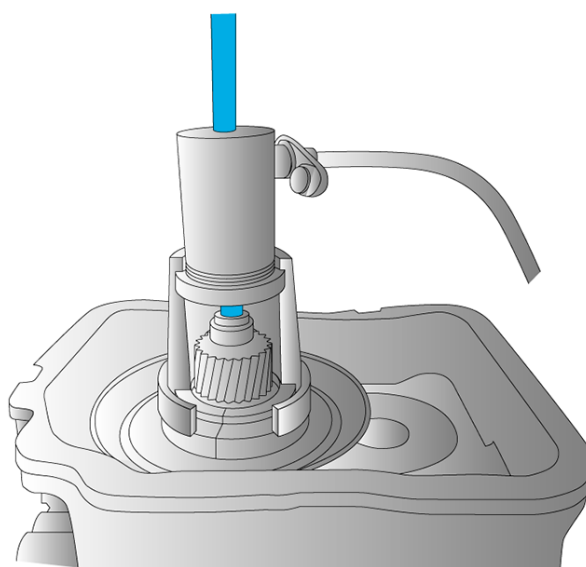


2.7 FERRAMENTA PARA DESMONTAGEM/ MONTAGEM DO ANEL SINCRONIZADOR DA GAMA. BARRA ROSCADA.

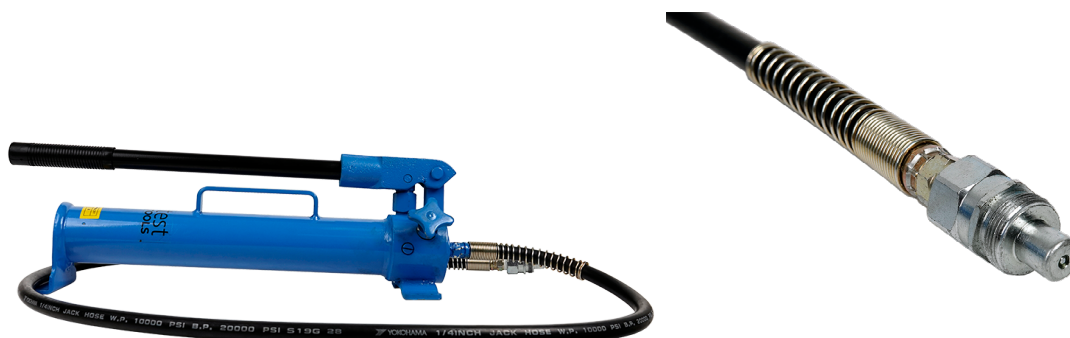


Referência: 50105122

[ver na web](#)

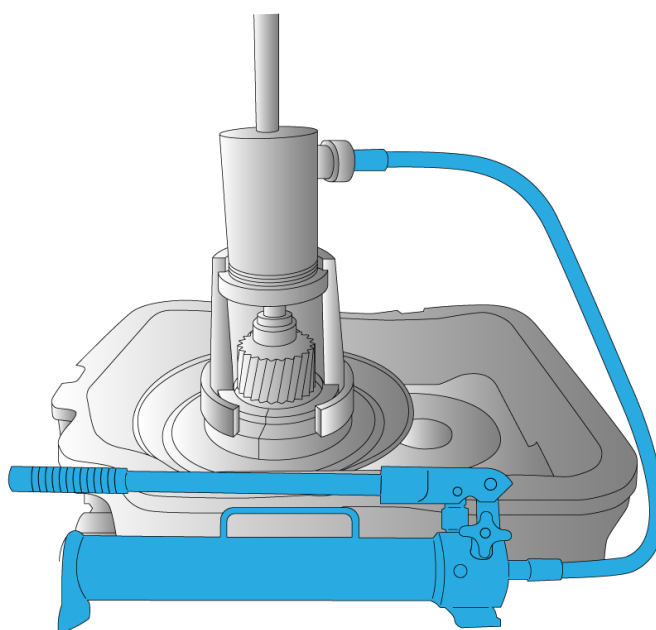


2.8 BOMBA HIDRÁULICA MANUAL



Referência: 50105119

[ver na web](#)

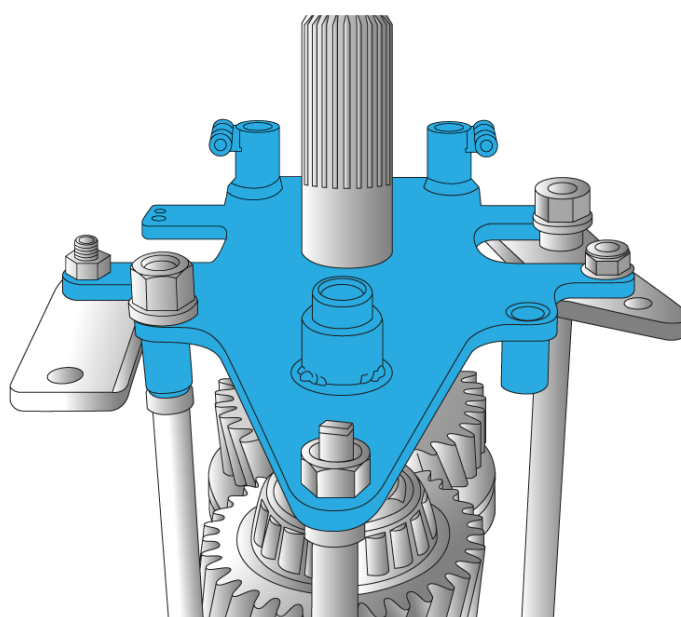


2.9 FERRAMENTA PARA FIXAÇÃO E ELEVAÇÃO DO CONJUNTO DO EIXO

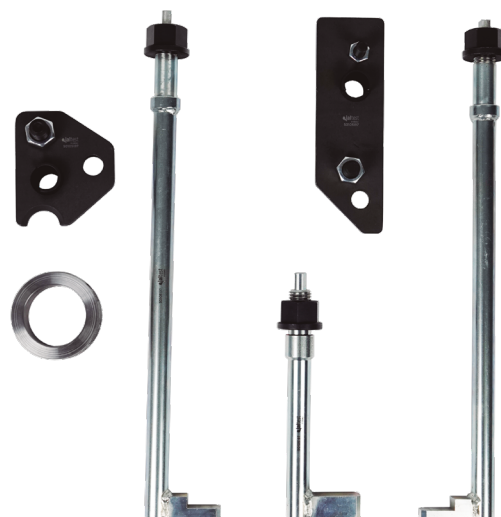


Referência: 50105108

[ver na web](#)

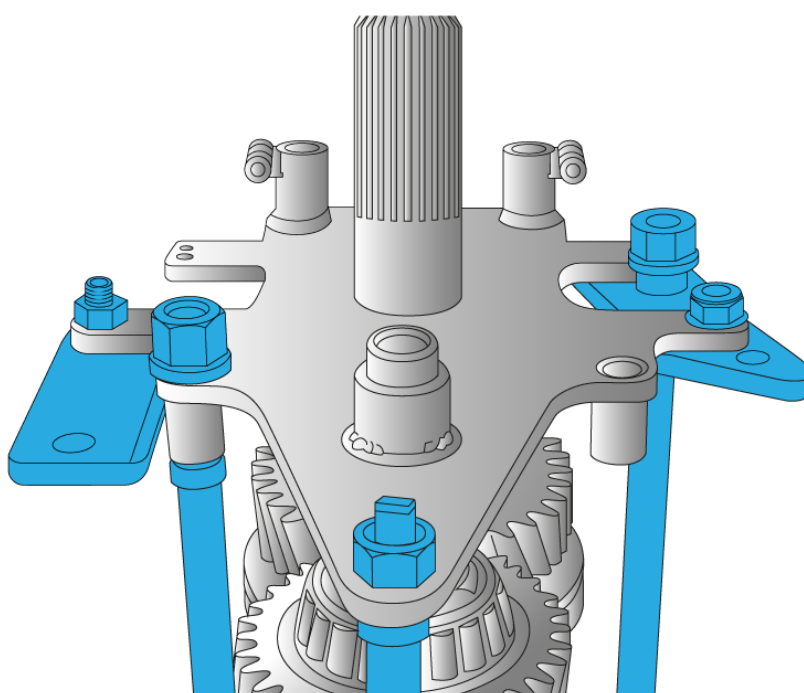


2.10 FERRAMENTA PARA FIXAÇÃO E ELEVAÇÃO DO CONJUNTO DO EIXO



Referência: 50105197

[ver na web](#)

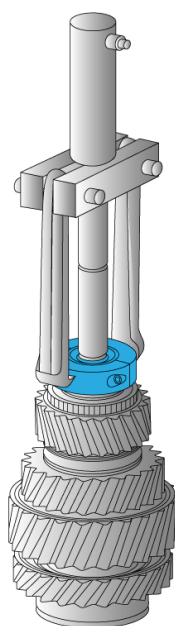


2.11 FERRAMENTA DE EXTRACÇÃO DO ROLAMENTO DO EIXO PRIMÁRIO



Referência: 50105107

[ver na web](#)



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