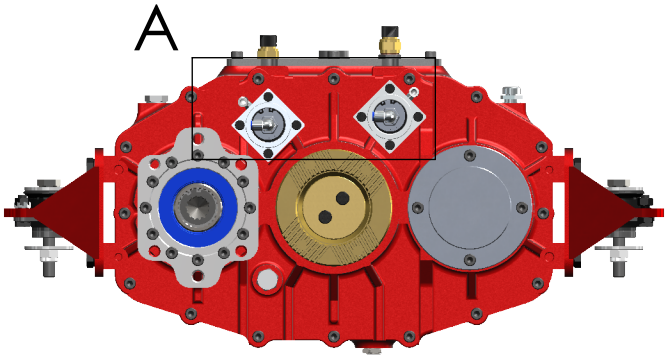
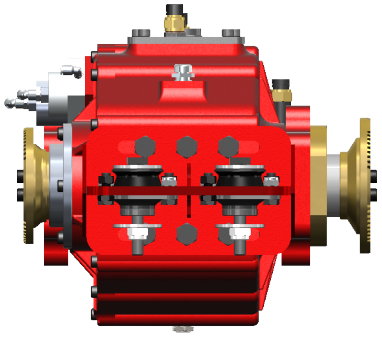
UARA.2501.K.1-1.3.A002
Main drive / pump engagement-disengagement
Pneumatic control system disassembly-assembly

KOZANOĞLU KOZMAKSAN

This document explains how to replace the seals, shift fork and fork shaft of the pneumatic system used to engage and disengage the main drive and pump on UARA.2501.K.1-1.3.A002.

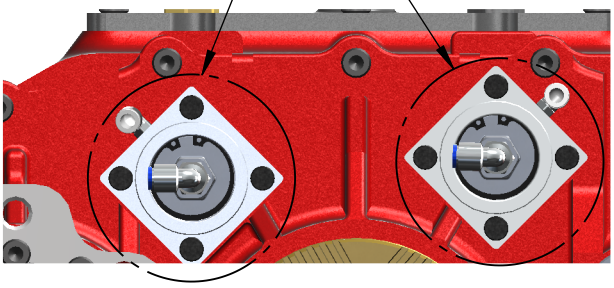


View from cab side

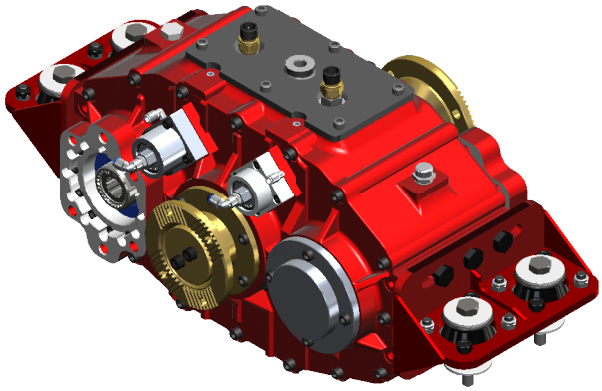


Main drive & hydraulic pump
engagement/disengagement
Pneumatic control system

Hydraulic motor (hydrostatic drive)
engagement/disengagement
Pneumatic control system



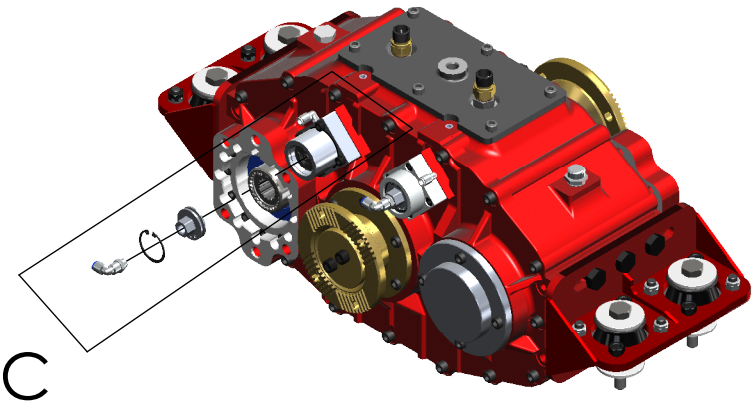
DETAIL A
SCALE 1 : 4



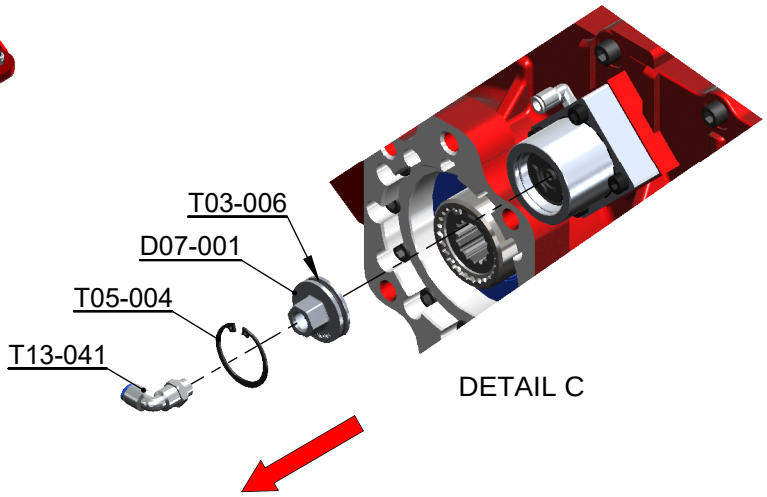
UARA.2501.K.1-1.3.A002
Main drive / pump engagement-disengagement
Pneumatic control system disassembly-assembly

KOZANOĞLU KOZMAKSAN

Step 1



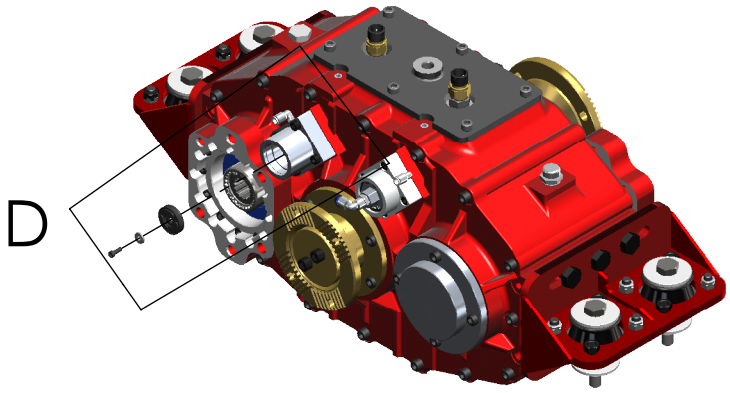
Part Code	Part Name
T13-041	Swivel elbow air fitting
T05-004	DIN 472x45 circlip
D07-001	Air cylinder cover
T03-006	O-RING



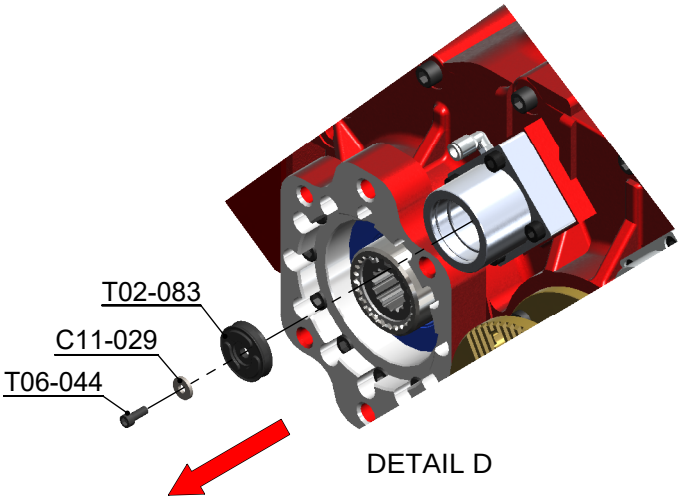
DETAIL C

Remove the components from the air cylinder in the sequence shown in Detail C.

Step 2



Part Code	Part Name
T06-044	M6 socket head screw
C11-029	Pneumatic seal washer
T02-083	Pneumatic seal



DETAIL D

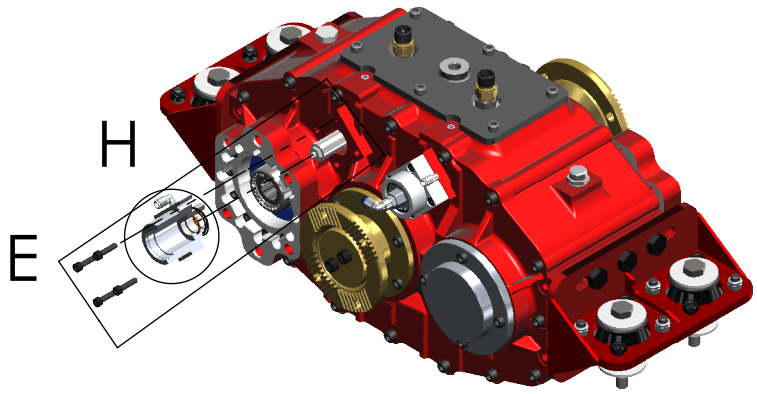
Remove the components from the air cylinder in the sequence shown in Detail D.

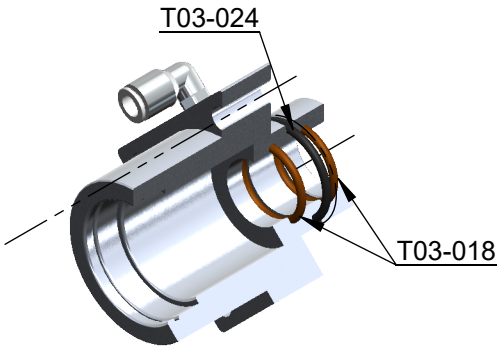
UARA.2501.K.1-1.3.A002
Main drive / pump engagement-disengagement
Pneumatic control system disassembly-assembly

KOZANOĞLU KOZMAKSAN

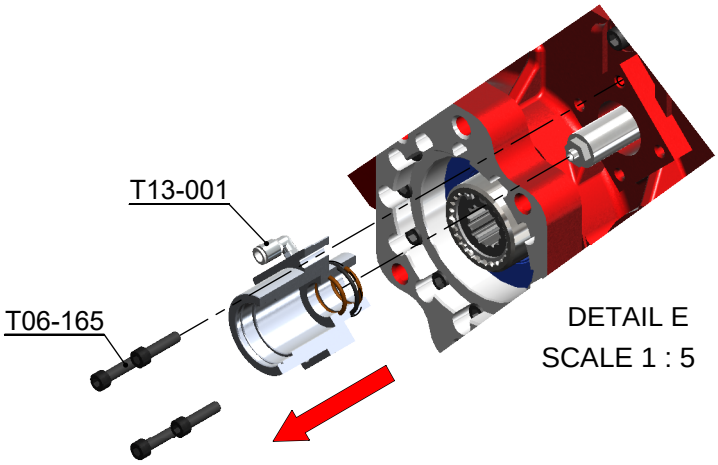
Step 3

Part Code	Part Name
T06-165	M8 socket head screw
C02-06-079	Air cylinder (main drive/pump engagement/disengagement)
T13-001	Swivel elbow air fitting
T03-024	O-RING
T03-018	O-RING





DETAIL H

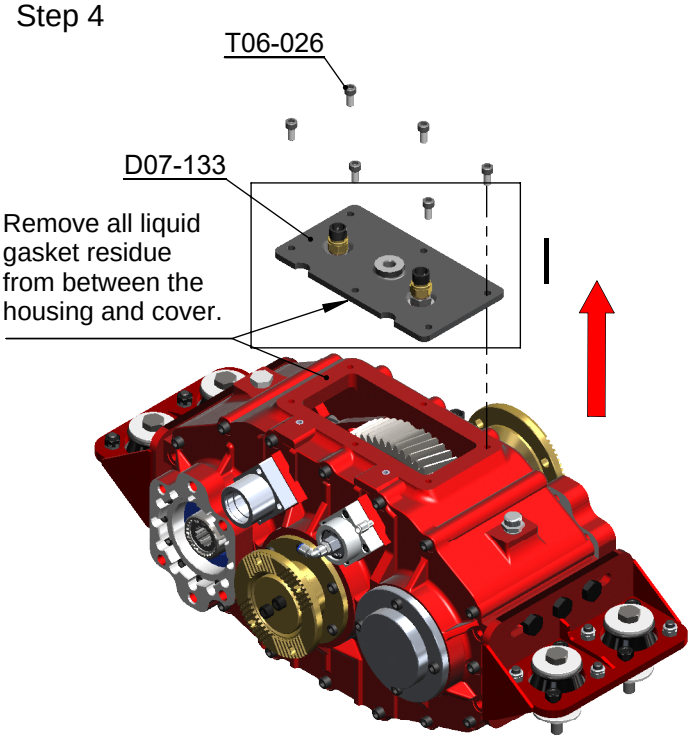


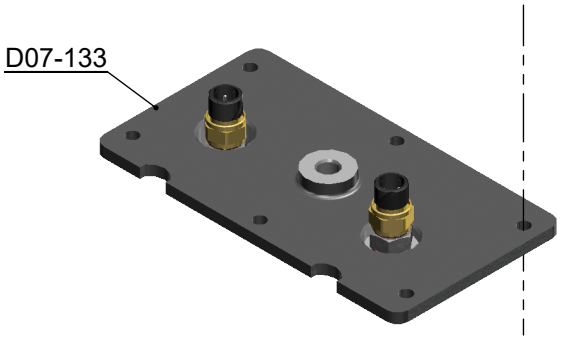
DETAIL E
SCALE 1 : 5

When the C02-06-079 air cylinder is removed, the T03-024 and T03-018 O-rings come out with it. Always replace these O-rings during reassembly.

Step 4

Part Code	Part Name
T06-026	M10 socket head screw
D07-133	Cast aluminium top cover





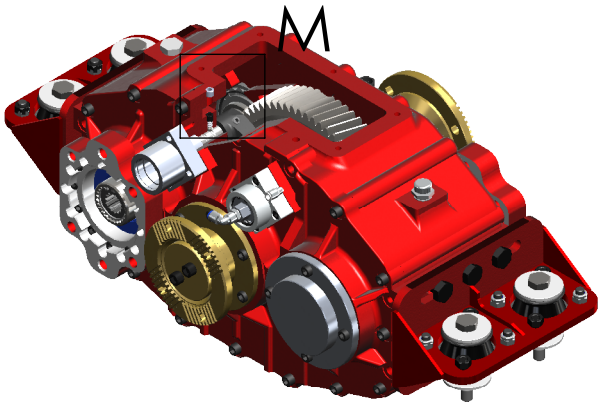
DETAIL I
SCALE 1 : 5

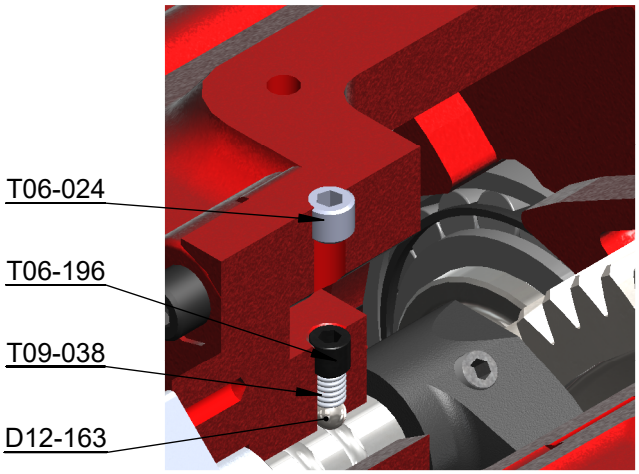
The top cover is removed together with the engaged/disengaged position sensors. Do not remove the sensors from the aluminium cover.

UARA.2501.K.1-1.3.A002
Main drive / pump engagement-disengagement
Pneumatic control system disassembly-assembly

KOZANOĞLU KOZMAKSAN

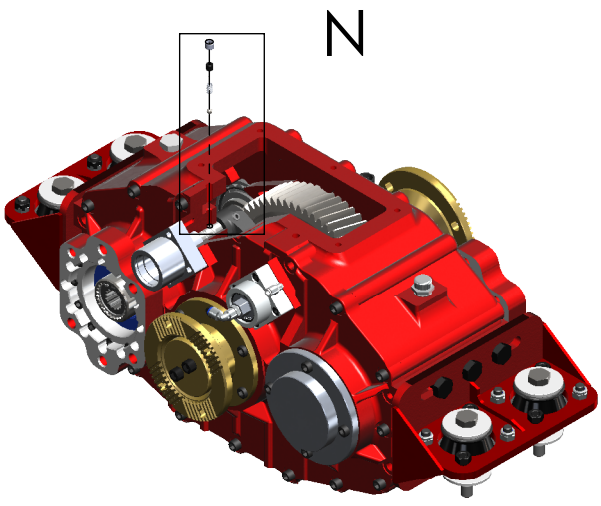
Step 5

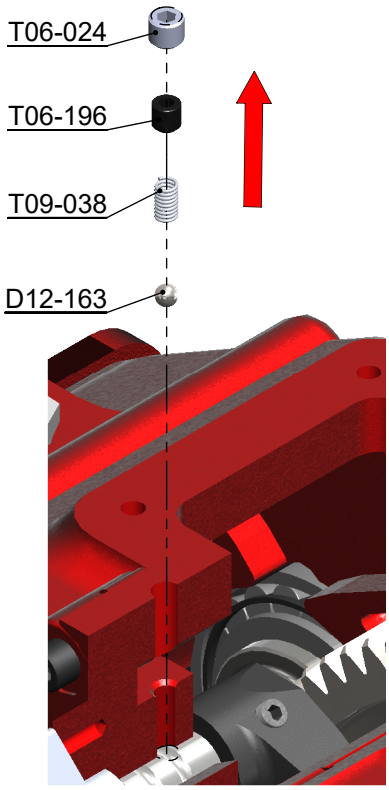




DETAIL M

Part Code	Part Name
T06-024	M12 set screw
T06-196	M10 set screw
T09-038	Detent spring
D12-163	Detent ball





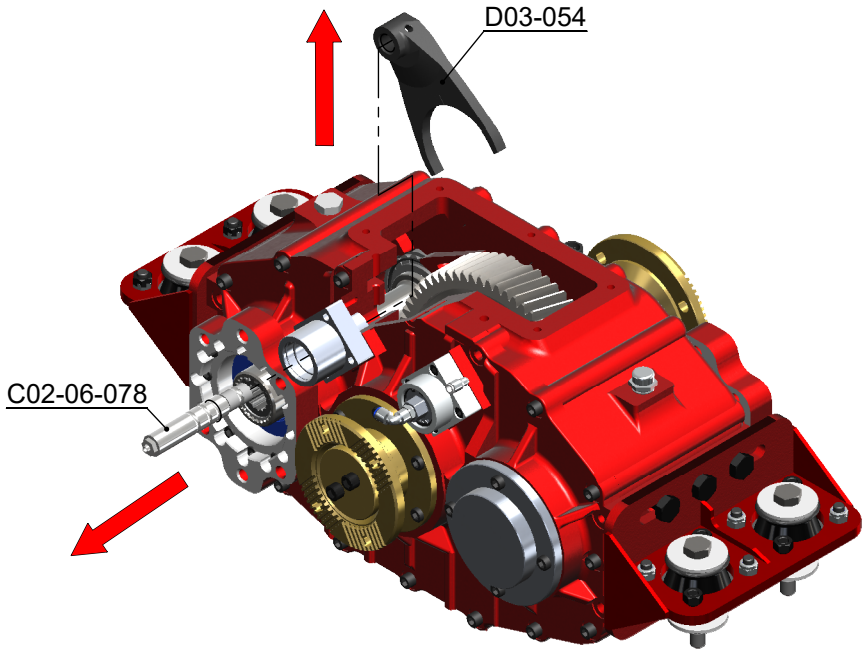
DETAIL N

Disassemble in the sequence shown in Detail N. When removing the T06-196 M10 set screw, the T09-038 spring may spring out of its bore. Disassemble with care.

UARA.2501.K.1-1.3.A002
Main drive / pump engagement-disengagement
Pneumatic control system disassembly-assembly

KOZANOĞLU KOZMAKSAN

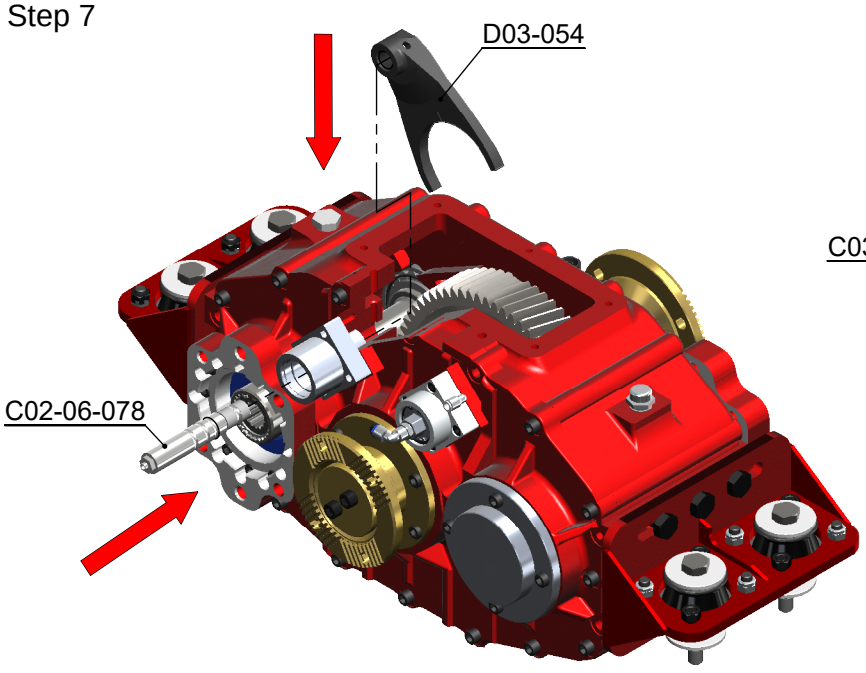
Step 6



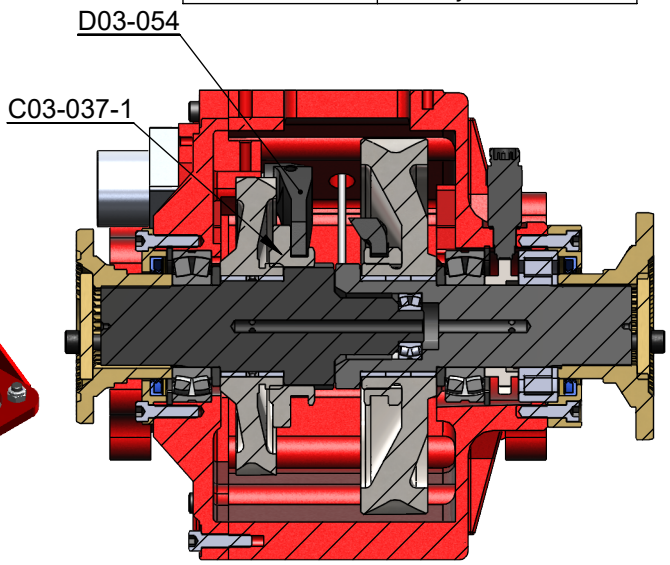
Part Code	Part Name
C02-06-078	Fork shaft
D03-054	Shift fork

Use a suitable tool on the 17 mm across-flats wrenching section of the C02-06-078 fork shaft to detach the D03-054 shift fork. Prevent the fork from falling into the housing once it has been detached.

Step 7



Part Code	Part Name
C02-06-078	Fork shaft
D03-054	Shift fork
C03-037-1	Synchronizer

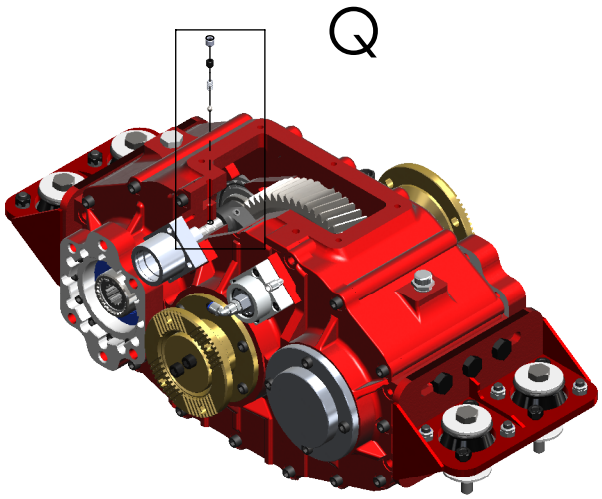


First, fit the D03-054 shift fork into the fork groove of the C03-037-1 synchronizer. Then tighten the C02-06-078 fork shaft into the fork using the 17 mm across-flats wrenching section. Apply threadlocking compound to the fork shaft threads before tightening.

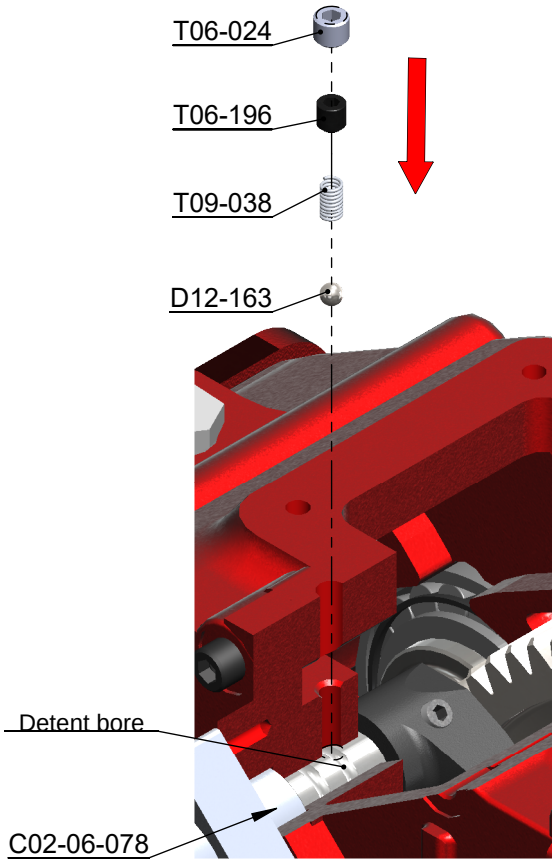
UARA.2501.K.1-1.3.A002
Main drive / pump engagement-disengagement
Pneumatic control system disassembly-assembly

KOZANOĞLU KOZMAKSAN

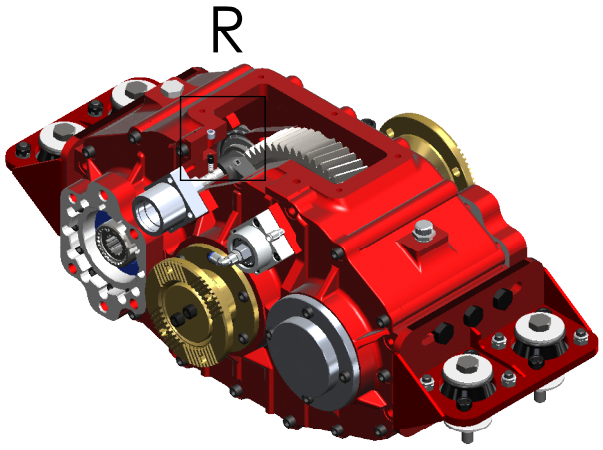
Step 8

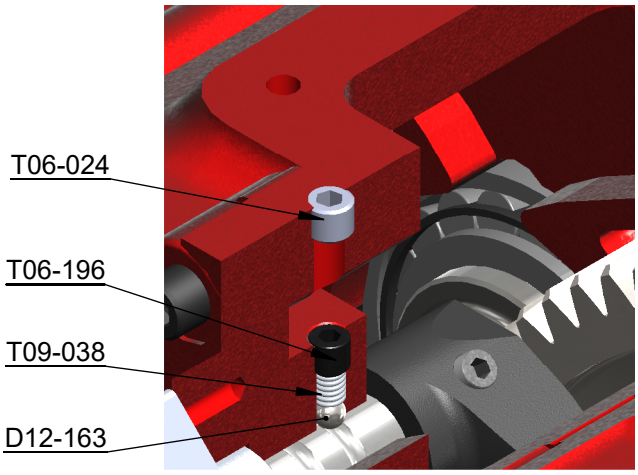


Part Code	Part Name
T06-024	M12 set screw
T06-196	M10 set screw
T09-038	Detent spring
D12-163	Detent ball



DETAIL Q





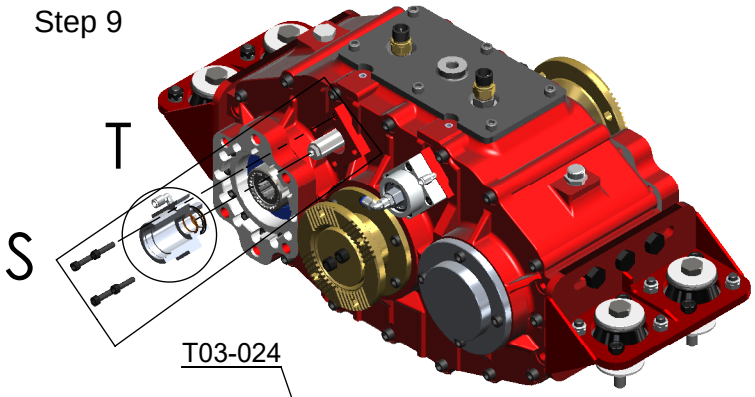
DETAIL R

With the C02-06-078 fork shaft in position, install D12-163, T09-038 and T06-196 into the detent bore in that order. Finally, install the T06-024 set screw in the housing directly above the detent assembly to complete the installation.

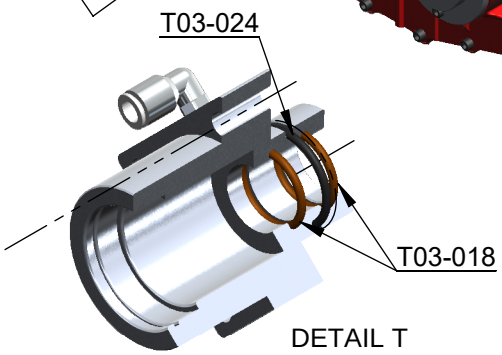
UARA.2501.K.1-1.3.A002
Main drive / pump engagement-disengagement
Pneumatic control system disassembly-assembly

KOZANOĞLU KOZMAKSAN

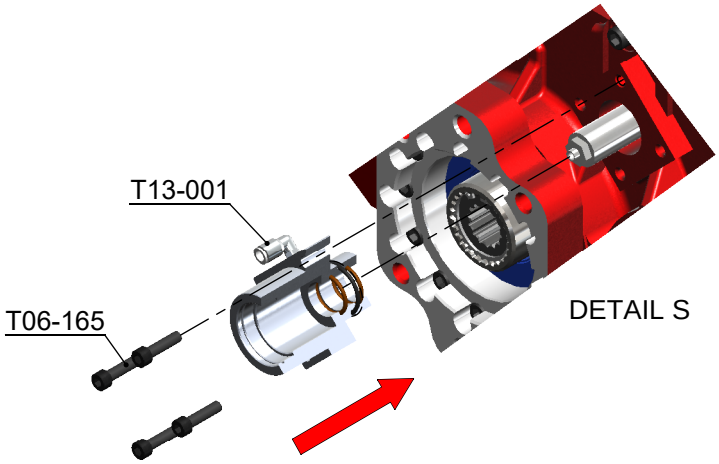
Step 9



Part Code	Part Name
T06-165	M8 socket head screw
C02-06-079	Air cylinder (main drive/pump engagement/disengagement)
T13-001	Swivel elbow air fitting
T03-024	O-RING
T03-018	O-RING



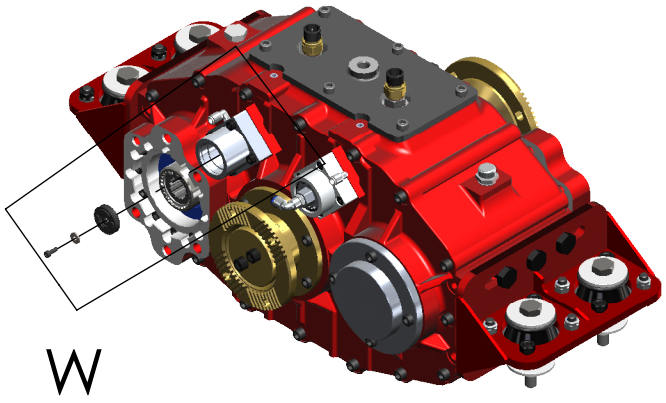
DETAIL T



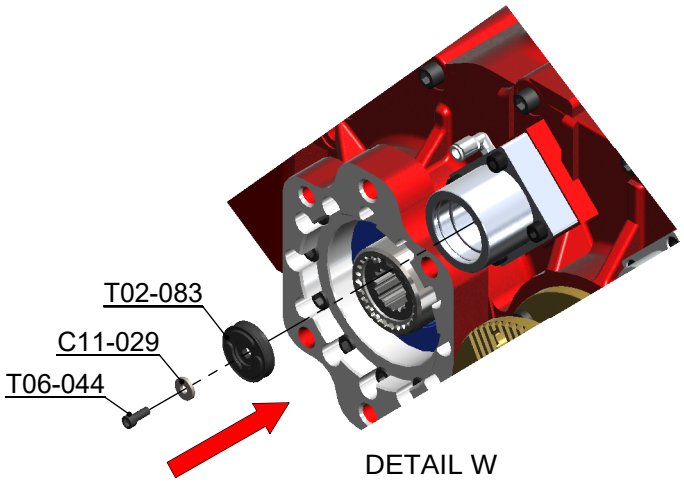
DETAIL S

When installing the C02-06-079 air cylinder, always replace the T03-024 and T03-018 O-rings. Apply grease when fitting the O-rings. Also apply grease when fitting the C02-06-079 air cylinder to the housing.

Step 10



Part Code	Part Name
T06-044	M6 socket head screw
C11-029	Pneumatic seal washer
T02-083	Pneumatic seal



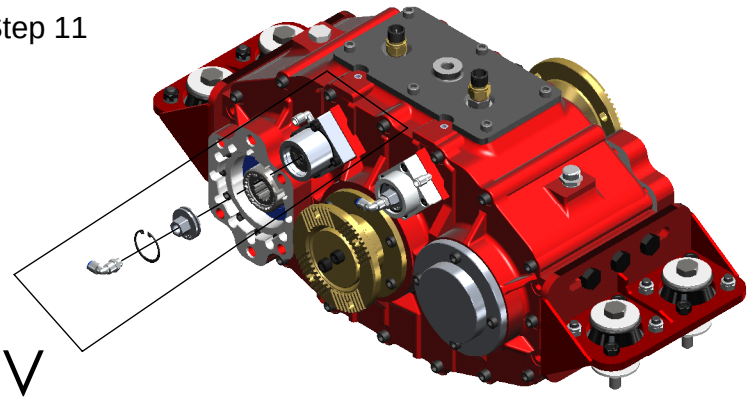
DETAIL W

Install the T02-083 pneumatic seal, C11-029 washer and T06-044 screw, in that order.

UARA.2501.K.1-1.3.A002
Main drive / pump engagement-disengagement
Pneumatic control system disassembly-assembly

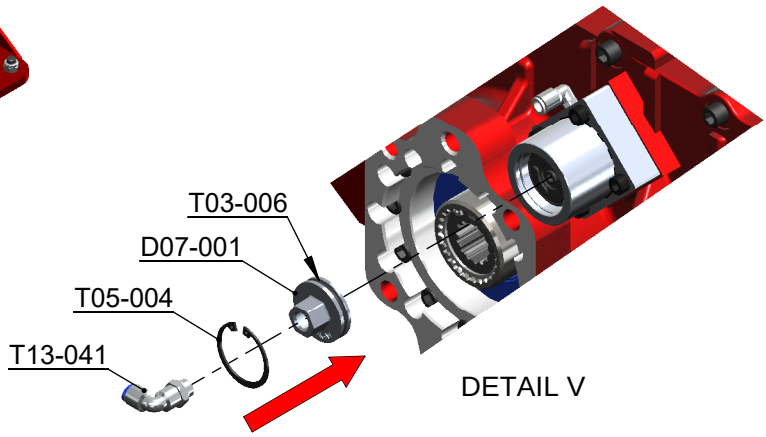
KOZANOĞLU KOZMAKSAN

Step 11



Part Code	Part Name
T13-041	Swivel elbow air fitting
T05-004	DIN 472x45 circlip
D07-001	Air cylinder cover
T03-006	O-RING

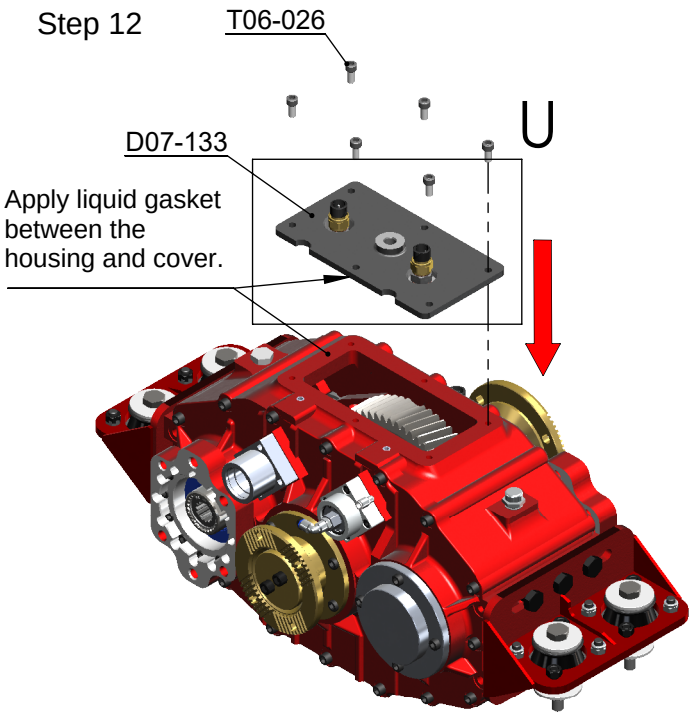
First, replace the T03-006 O-ring on the D07-001 air cylinder cover. Grease the air cylinder cover before fitting it to the air cylinder.



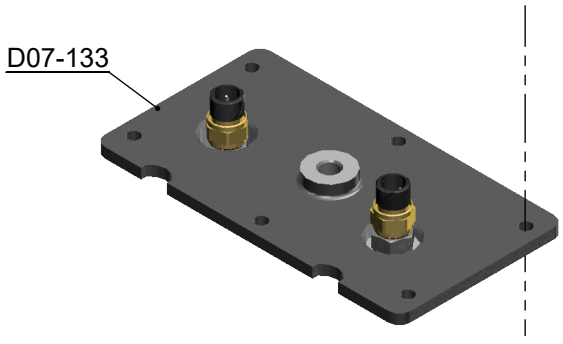
DETAIL V

After completing the assembly in Step 12, test engagement and disengagement of the main drive and side hydraulic pump. Proceed to Step 13 only after confirming that both functions operate correctly. If any engagement or disengagement problem is detected, disassemble the components as described and reassemble them. Take the necessary precautions to avoid damaging the air piston and O-rings during disassembly and assembly.

Step 12



Part Code	Part Name
T06-026	M10 socket head screw
D07-133	Cast aluminium top cover



DETAIL U

Secure the D07-133 aluminium cover to the housing with the screws, keeping the engaged/disengaged position sensors attached as they were during removal.