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DISASSEMBLING THE TRANSFER GEAR BOX AND THE GROUPS

Disassembling the transfer gear box and the groups



Picture 1



Picture 2



Picture 3

Before disassembling and checking the groups of transfer gear box, the lubricating oil must be drained off. (used oil must be disposed according to the law in force).

Remove the plug and drain off the oil (pic.1, 2).

For better draining, remove the upper filling plug. (pic.3)



Picture 4

For better working condition screw backward the plug and tight by hand (pic.4)



Picture 5

Unscrew the lock ball plug for both speed shifting mechanism and remove the washer and springs. (pic.5, 6, 7)



Picture 6



Picture 7

Remove the oil sight glass (pic.8, 9)



Picture 8



Picture 9

Unscrew the breathing plug (pic.10, 11)



Picture 10



Picture 11



Picture 12

Before fixing the transfer gear box into the rotative stand, 3080A018 tilt it and remove the lock bolts (pic.12)



Picture 13

Fix the gear box into the rotative stand, 3080A018 with both shafts downwards (pic.13, 14, 15).



Picture 14



Picture 15



Picture 17

Rotate the fixed gear box by 180°, unscrew the all hexagonal socked-head screw from the shaft covers and remove the both Bowden brackets (pic.17, 18, 19, 20).



Picture 18



Picture 19



Picture 20



Picture 21

Release the screws from selector rods and remove the levers (pic.21, 22, 23, 24).



Picture 22



Picture 23



Picture 24



Picture 25

Fix the supporting plate into the rotative stand (pic.25)



Picture 26

Rotate the gear box by 180°, and remove the differential lock switch (pic.26)



Picture 27

Remove the speed sensor (pic.27) and PTO cover (pic.28, 29)



Picture 28



Picture 29



Picture 30

Release the hexagonal socket-head screw and remove the lower rear shaft (pic.30, 31)



Picture 31



Picture 32

To remove the flange, fix the assembled shaft into the Support 3080A180 and unscrew the nut by means of special socket wrench 30803015: M35x1,5 (pic.32).



Picture 33

Remove the flange and assembled shaft cover (pic.33).



Picture 34

Remove the O ring from the assembled spline shaft (pic.34).



Picture 35

Remove the spread wheel (pic.35, 36, 37). If necessary, use universal extractor.



Picture 36



Picture 37

Fix the shaft into the Support 3080A180 and remove the bearing by means of hammer (pic.37).

PAY ATTENTION: this operation can be destructive (damaging the bearing).



Picture 38

Remove the retaining ring from the upper rear shaft bearing (pic.38).



Picture 39

Get loose the cases and central flange joints and remove the rear case (pic.39, 40)

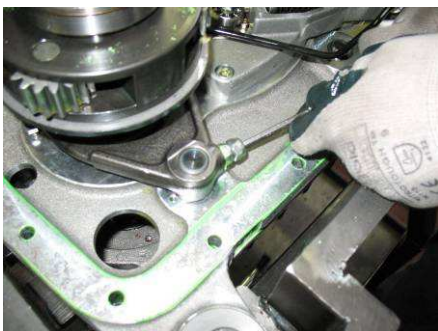


Picture 40



Picture 41

Release the cup-point set screw and nut from the selector rod for reduced (high and low) speed and remove the speed change fork (pic. 41, 42, 43).



Picture 42



Picture 43



Picture 44

Remove the assembled planet carrier for reduced (high and low) speed from the upper rear shaft (pic.44).



Picture 45

Remove the Seeger ring (pic.45)



Picture 46

Apply universal extractor to pull down the bearing from planet carrier (pic.46)



Picture 47

Release the countersink screws from the holding down ring and retainer half-rings and remove its (pic.47, 48)



Picture 48



Picture 49

Remove the sun wheel and all of satellite gears (pic.49, 50).



Picture 50