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BACKFITTING OF INDEPENDENT SPEED CONTROL

The independent speed control is easily retrofit on following types: 20xx, 2120, 2122, 2126, 2138, 2748, 31xx and 4061.

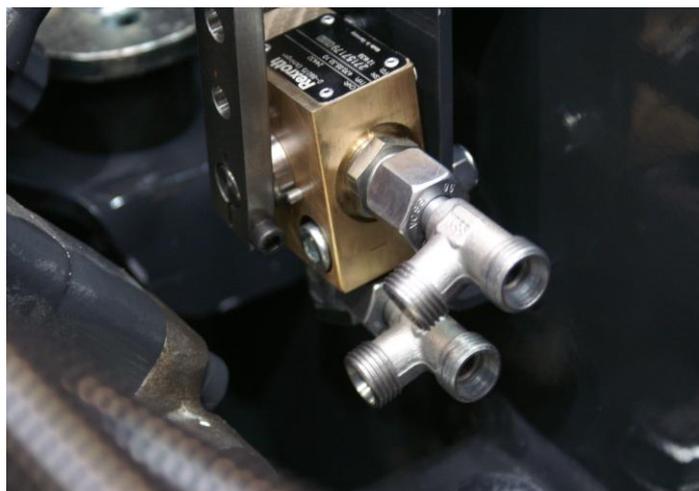
The independent speed control can be obtained as a spare part (spare part number 103002.1). The backfitting kit is fitting for all types of machines. So after mounting some parts who are not needed may left over.

The following instructions for the backfitting are in matter of the particular type

Instructions for 20xx series:

The installation of independent speed control for the 20xx series was not intended by us. However it is able to equip it on all machines with a Bosch-Rexroth plant. Machines with a Bondioli system require a different set of retrofit.

Since the installation in these machines was not intended by us, the required mounting holes have to be drilled during the backfitting.



The picture above shows the Inching-control unit of a 2138/KA. This control unit is also mounted on the 20xx series directly under the pedal.

Unscrew the hydraulic pipes of the control unit and set in the two t-fittings.



Drill a hole, in the hood plate, behind the hydraulic control unit and mount the control valve. Mount the electromagnetic valve on a strut member in near to the control valve.

Mount the hydraulic pipes in following 3 steps:

1. Connect one of the t-fittings with the electromagnetic valve.
2. Then connect the electromagnetic valve with the control valve.
3. At least connect the control valve to the second t-fitting of the inching-valve.

Tighten all pipes!



Set the switch into a free slot on the steering column. Take the electric power supply directly from the fuse box. (free slot opposite to a blue cable)

Install the cable to the electromagnetic valve. Connect the plug with the magnet.

Operating mode: Open the valve by turning the blue knob anti-clockwise. Adjust with this valve the needed driving speed while max rpm (full throttle). The driving speed can be adjusted all time to the specific needs.

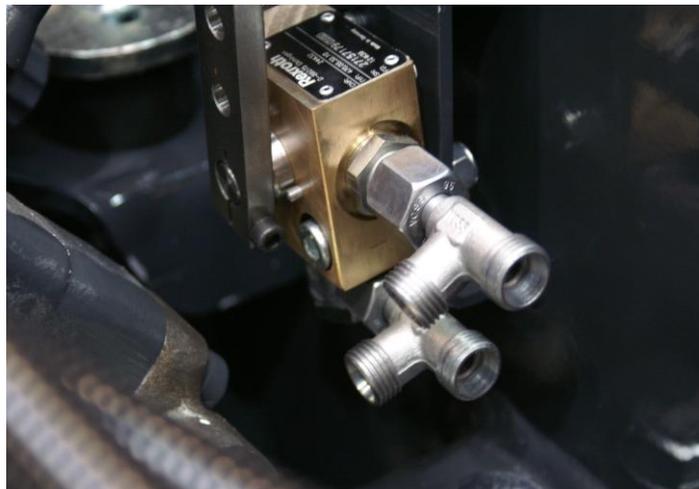
This setting can be disconnected by the switch (electromagnetic valve). The machine is now running with full speed. After pressing the switch again the machine is again running with the manual settings. (Use this only for short breaks!)

If the speed control is not needed, the valve has to be closed by turning the knob clockwise and switched off electromagnetic valve.

Attention: if this disconnection does not work, the cables on the electromagnetic valve have to be switched.

Instrucions for 21xx series:

The backfitting of the independent speed control on the 21xx series is possible without any higher effort. Addicted to the production date, only the drilling for the electromagnetic valve has to be made. From up to spring 2012 these drillings are present.



The picture shows the inching-valve on a 2138. Demount the loaders ground plate to reach the valve. Unscrew the hydraulic pipes of the control unit and set in the two t-fittings.



Mount the control valve with the bracket on the engine bridge as seen on the picture. Mount the electromagnetic valve on the bridge on opposite to the hydraulic control unit. (see picture)
Potentially the holes need to be drilled here. Please note that directly behind the bridge the main control unit is mounted, that should be drilled under no circumstances.

Mount the hydraulic pipes in following 3 steps:

1. Connect one of the t-fittings with the electromagnetic valve.
2. Then connect the electromagnetic valve with the control valve.
3. At least connect the control valve to the second t-fitting of the inching-valve.

Tighten all pipes!



Set the switch into a free slot on the steering column. Take the electric power supply directly from the fuse box. (free slot opposite to a blue cable)

Install the cable to the electromagnetic valve. Connect the plug with the magnet.

Operating mode: Open the valve by turning the blue knob anti-clockwise. Adjust with this valve the needed driving speed while max rpm (full throttle). The driving speed can be adjusted all time to the specific needs.

This setting can be disconnected by the switch (electromagnetic valve). The machine is now running with full speed. After pressing the switch again the machine is again running with the manual settings. (Use this only for short breaks!)

If the speed control is not needed, the valve has to be closed by turning the knob clockwise and switched off electromagnetic valve.

Attention: if this disconnection does not work, the cables on the electromagnetic valve have to be switched.

Instructions 30xx series:

The installation of independent speed control for the 30xx series was not intended by us. However it is able to equip it on all machines with a Bosch-Rexroth plant. Machines with a Bondioli system require a different set of retrofit.

Since the installation in these machines was not intended by us, the required mounting holes have to be drilled during the backfitting.



Picture shows axial piston pump:

Demount the locking cap and mount the screw connection XGEM12x1,5 – 10L



Drill a hole, in the hood plate, behind the hydraulic control unit and mount the control valve. Mount the electromagnetic valve on a strut member in near to the control valve.

Mount the hydraulic pipes in following steps:

1. Connect screw connection on the axial piston pump with the electromagnetic valve.
2. Then connect the electromagnetic valve with the control valve.
3. At least connect the control valve with the gathering pipe behind the rear axle.
 - 3a) dump the hydraulic oil into a clean container for a re-use
 - 3b) unscrew the pipe between the gathering pipe and the hydraulic tank
 - 3c) mount the t-fitting (EVL22L) and the reducing (KOR22L – 10L)
 - 3d) connect the 2 pipes

Tighten all pipes and **REFILL THE HYDRAULIC TANK**



Set the switch into a free slot on the steering column. Take the electric power supply directly from the fuse box. (free slot opposite to a blue cable)

Install the cable to the electromagnetic valve. Connect the plug with the magnet.

Operating mode: Open the valve by turning the blue knob anti-clockwise. Adjust with this valve the needed driving speed while max rpm (full throttle). The driving speed can be adjusted all time to the specific needs.

This setting can be disconnected by the switch (electromagnetic valve). The machine is now running with full speed. After pressing the switch again the machine is again running with the manual settings. (Use this only for short breaks!)

If the speed control is not needed, the valve has to be closed by turning the knob clockwise and switched off electromagnetic valve.

Attention: if this disconnection does not work, the cables on the electromagnetic valve have to be switched.

Instructions for the 2748 series:

The backfitting of the independent speed control on the 2748 series is possible without any higher effort. All needed drillings and connections are present.



Picture shows axial piston pump. Please note that this pump is laterally rotated (45°) at the 2748 series.

Demount the locking cap and mount the screw connection XGEM12x1,5 – 10L.

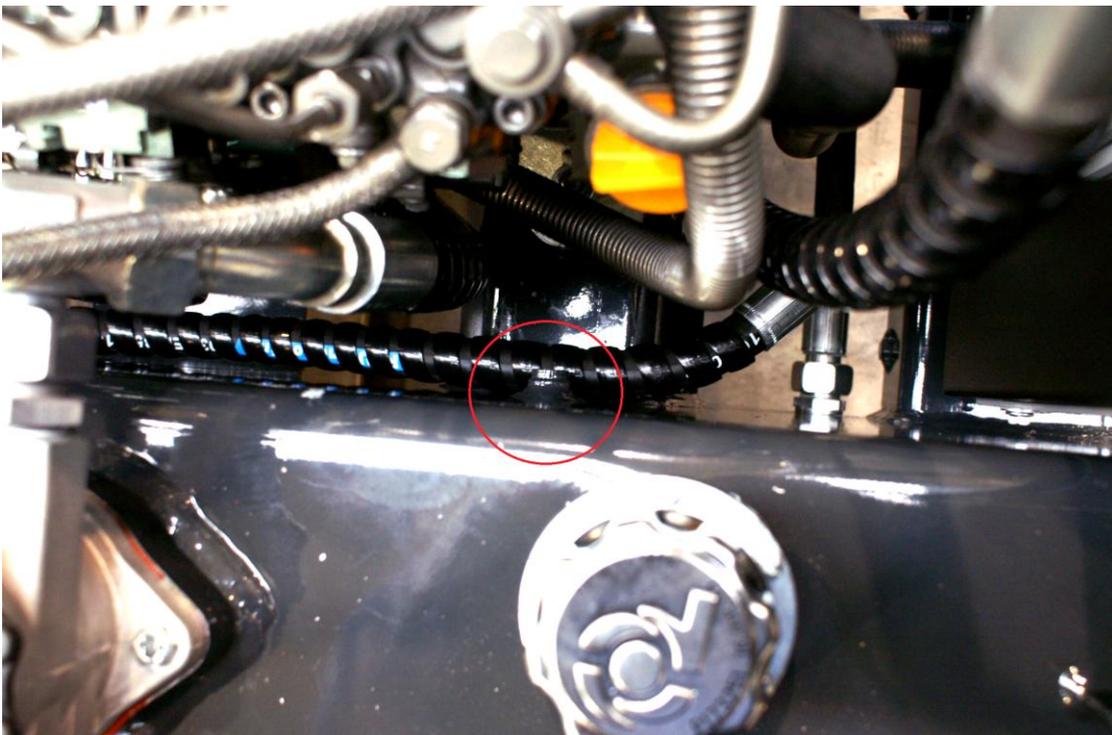


Mount the control valve with the bracket on the engine bridge as seen on the picture. Mount the electromagnetic valve on the bridge backside to the control valve. (see picture)

Mount the hydraulic pipes in following steps:

1. Connect screw connection on the axial piston pump with the electromagnetic valve.
2. Then connect the electromagnetic valve with the control valve.
3. At least connect the control valve with the hydraulic tank
 - 3a) dump the hydraulic oil into a clean container for a re-use
 - 3b) unscrew the locking cap of the hydraulic tank (see picture below)
 - 3c) mount the screw connection
 - 3d) connect the control valve pipe

Tighten all pipes and **REFILL THE HYDRAULIC TANK**





Set the switch into a free slot on the steering column. Take the electric power supply directly from the fuse box. (free slot opposite to a blue cable)

Install the cable to the electromagnetic valve. Connect the plug with the magnet.

Operating mode: Open the valve by turning the blue knob anti-clockwise. Adjust with this valve the needed driving speed while max rpm (full throttle). The driving speed can be adjusted all time to the specific needs.

This setting can be disconnected by the switch (electromagnetic valve). The machine is now running with full speed. After pressing the switch again the machine is again running with the manual settings. (Use this only for short breaks!)

If the speed control is not needed, the valve has to be closed by turning the knob clockwise and switched off electromagnetic valve.

Attention: if this disconnection does not work, the cables on the electromagnetic valve have to be switched.

Instructions for 31xx and 40xx series:

The installation of independent speed control for the 31xx and 40xx series was not completely intended by us. However it is able to equip it on them.

It is possible that the required mounting holes have to be drilled during the backfitting on older machines.



Picture shows axial piston pump

Demount the locking cap and mount the screw connection XGEM12x1,5 – 10L.



Drill a hole, in the hood plate, behind the hydraulic control unit and mount the control valve. On machines with a plastic plate, the hole has to be drilled in the drivers station. This secures a higher stability.

Set in the control valve.



Mount the electromagnetical valve beneath the driver station on a strut member. You have to demount the tire and the fender, too.



Picture shows the hydraulic tank-nozzle:

Mount the new tank-nozzle with the screw connection.

The tank strainer has to be removed to avoid flooding.

Mount the hydraulic pipes in following 3 steps:

1. Connect one the screw connection of the axial piston pump with the electromagnetic valve.
2. Then connect the electromagnetic valve with the control valve.
3. At least connect the control valve to the screw connection on the tank-nozzle.

Tighten all pipes!



Set the switch into a free slot on the steering column. Take the electric power supply directly from the fuse box. (free slot opposite to a blue cable)

Install the cable to the electromagnetic valve. Connect the plug with the magnet.

Operating mode: Open the valve by turning the blue knob anti-clockwise. Adjust with this valve the needed driving speed while max rpm (full throttle). The driving speed can be adjusted all time to the specific needs.

This setting can be disconnected by the switch (electromagnetic valve). The machine is now running with full speed. After pressing the switch again the machine is again running with the manual settings. (Use this only for short breaks!)

If the speed control is not needed, the valve has to be closed by turning the knob clockwise and switched off electromagnetic valve.

Attention: if this disconnection does not work, the cables on the electromagnetic valve have to be switched.

Work amount addicted to the machine type: **45 – 90 minutes**

Best Regards

Thaler Johann jun.

Spare parts / technical support

Rauch Tobias

warranty / spare parts