



Opti Control 2020

An update for the Attachment Control Switch Pack A36880,A36878,A36879

AVANT®

Luottamuksellinen

Opti Control, an up-dated electrical control for accessories

An update for the Attachment Control Switch Pack A36880, A36878, A36879 has been released in January 2020.

The Opti Control has been added to all of the latest installed Attachment Control Switch Pack installations.

The modification has been build in to the harnesses so that there is no greater differences to be seen at the updated harnesses except a new ON / OFF switch, which has been installed onto the instrument panels.

This instruction concentrates to the subject that this up-date can also easily be retrofitted to all of the existing Attachment Control Switch Pack.



AVANT®

Luottamuksellinen

Opti Control, an up-dated electrical control for accessories

Those Avant accessories, which contain two electrically controlled solenoid valves for hydraulic functions, can now benefit of this option. For instance, we now have the wing bucket and the V-snow plough available to clean off the snow from driveways, which attachments now became a lot simpler to operate, using this option. Soon many other accessories can also be supplied with twin solenoid controls.

The Attachment Control Switch Pack (A36880, A36878, A37879) will be required to use this option, which also can easily be retrofitted to the existing ones afterwards, using a retrofit kit A437338 there. This fits into all Avant articulated loaders, which presently are for sale today.

In addition to the Attachment Control Switch Pack the instrument panel of the loader receives one more ON/OFF selector switch. When this selector switch is on OFF state, you can control with the swing switches of the Attachment Control Switch Pack electrically operated functions, and whenever you switch this to ON position, the hydraulic functions can thus be controlled using the swing switches in all those loaders supplied with the 6- or 8-function joy-stick. Concerning the red & blue push button operated function of the joy-stick. This is how some Avant accessories can be operated efficiently in an ergonomic manner, and operator doesn't need to remove his hand off the control joy-stick handle.

Opti Control, an up-dated electrical control for accessories

In case a loader hasn't been equipped with either 6-, or 8-function joy-stick:

- The Attachment Control Switch Pack can only be used to operate the electrically controlled functions.

The loaders without the Opti Control system: (with the harness A3473 I)

- Using the ON/OFF switch of the Attachment Control Switch pack / with the harness A3473 I, you can select the right wing-, (ON) or the left wing (OFF) operation modes.

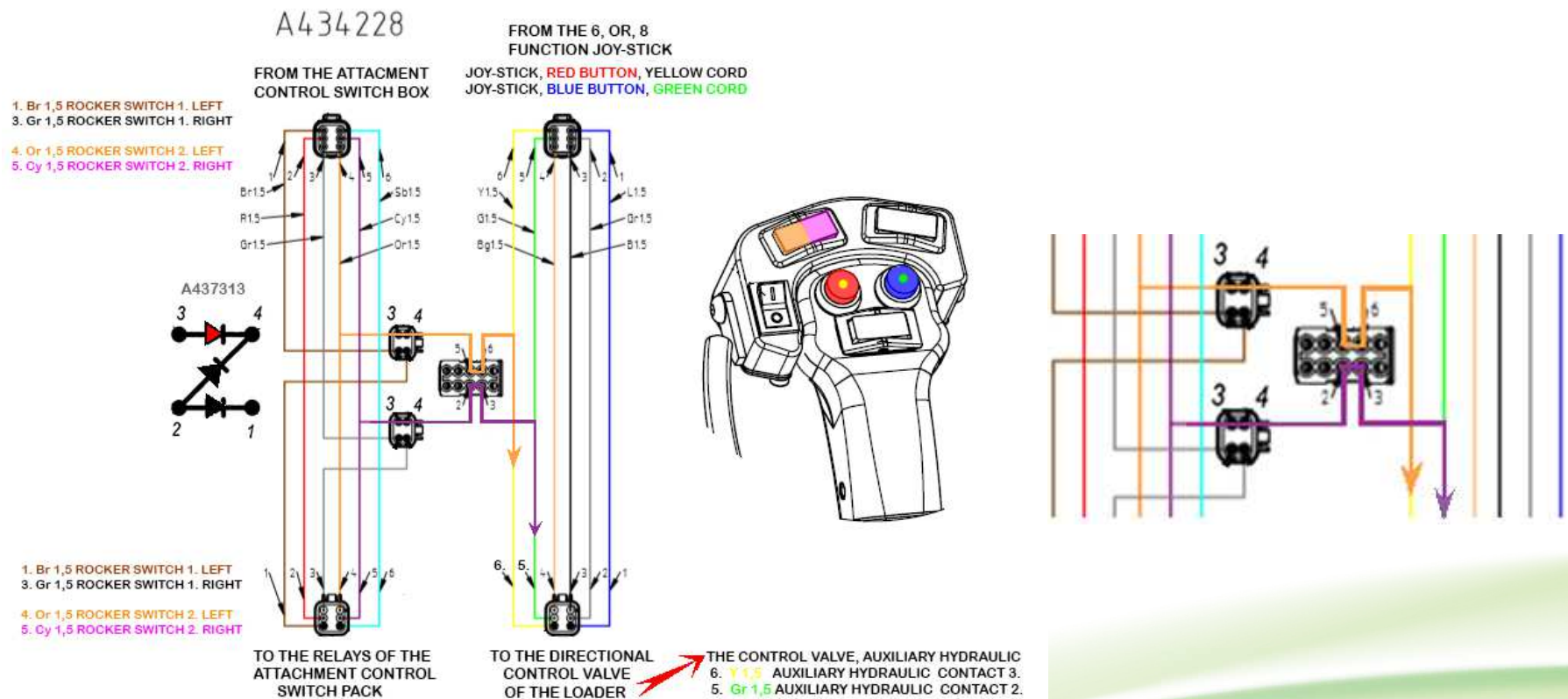
The loaders having the Opti Control: (with the harness A435498 two coils)

- By using the left swing switch No.1. of the Attachment Control Switch Pack, you can operate the left blade hydraulic.
- By using the right swing switch No: 2. of the Attachment Control Switch Pack, you can operate the right blade
- Using the push buttons BLUE & RED or the control lever of the auxiliary hydraulic: you can operate both blades diagonally simultaneously.
- If necessary, using the ON/OFF switch of the Attachment Control Switch Pack to its ON position: this overrides the function of the Opti Drive and then merely the left wing can be controlled by both swing switches.

The AVANT logo is rendered in a bold, red, sans-serif typeface. The letters are thick and blocky, with a registered trademark symbol (®) positioned at the top right of the final 'T'. The logo is set against a background of soft, horizontal green and white gradients.

Luottamuksellinen

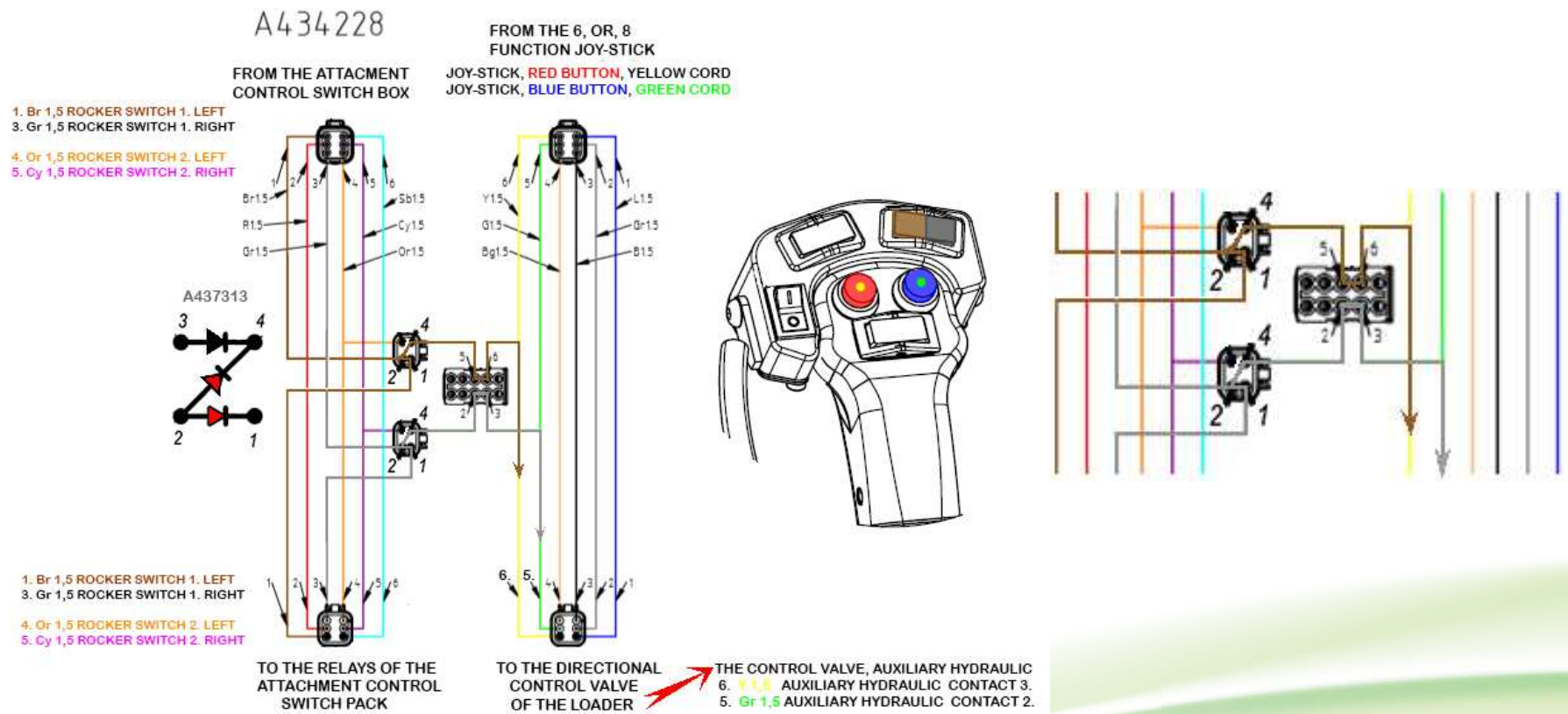
Opti Control, an up-dated electrical control for accessories



AVANT®

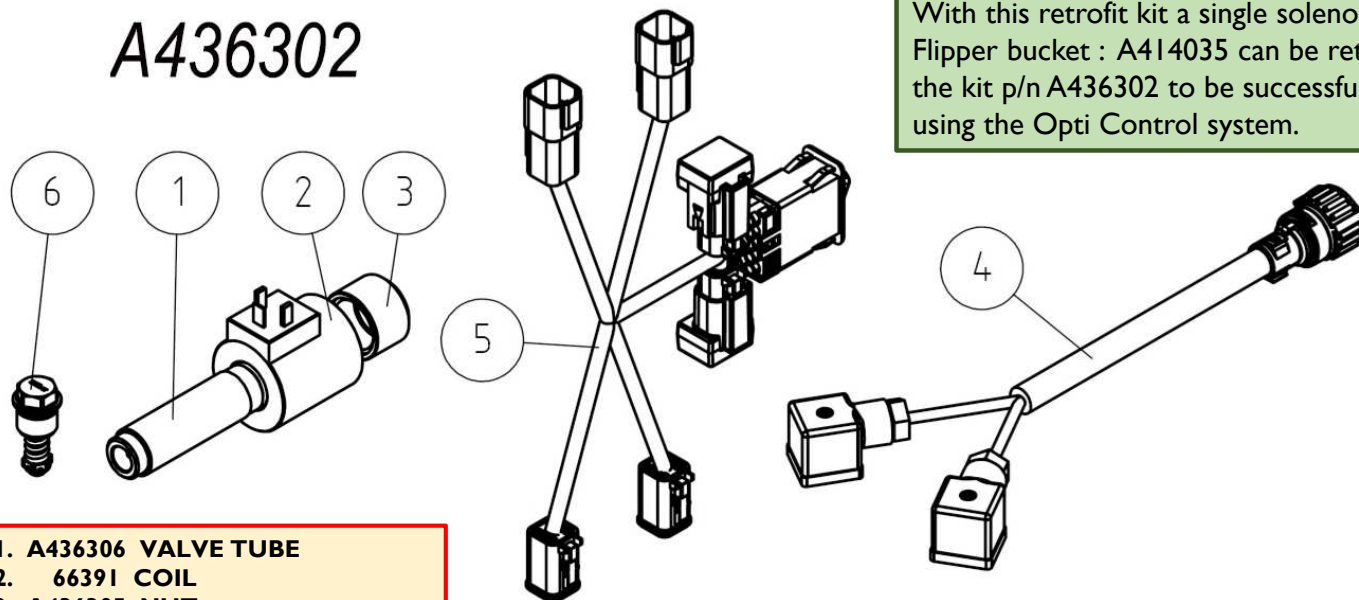
Luottamuksellinen

Opti Control, an up-dated electrical control for accessories



Opti Control, an up-dated electrical control for the Snow Plough

A436302



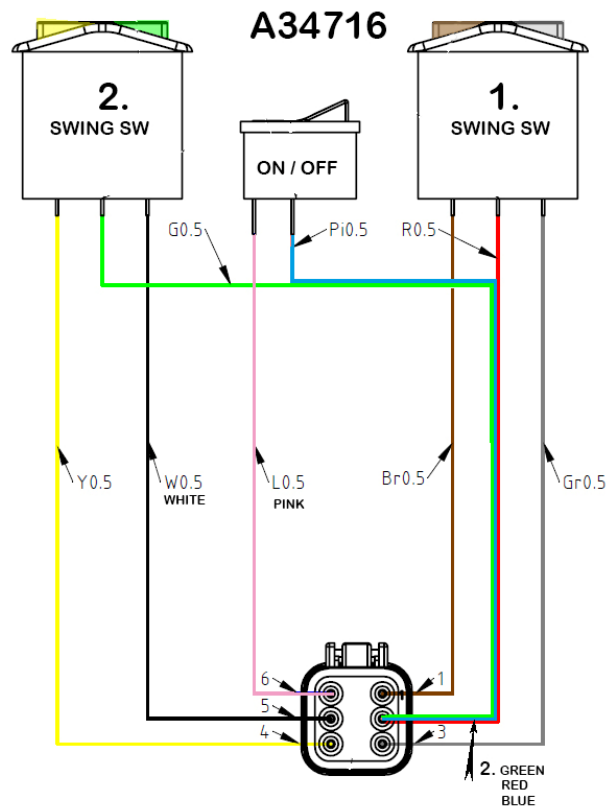
With this retrofit kit a single solenoid operated Flipper bucket : A414035 can be retrofitted by the kit p/n A436302 to be successfully operated using the Opti Control system.

- 1. A436306 VALVE TUBE
- 2. 66391 COIL
- 3. A436305 NUT
- 4. A435498 ELECTRICAL HARNESS
- 5. A437338 RETROFIT KIT
- 6. A439909 VALVE CARTRIDGE

AVANT®

Luottamuksellinen

Opti Control, an up-dated electrical control for accessories



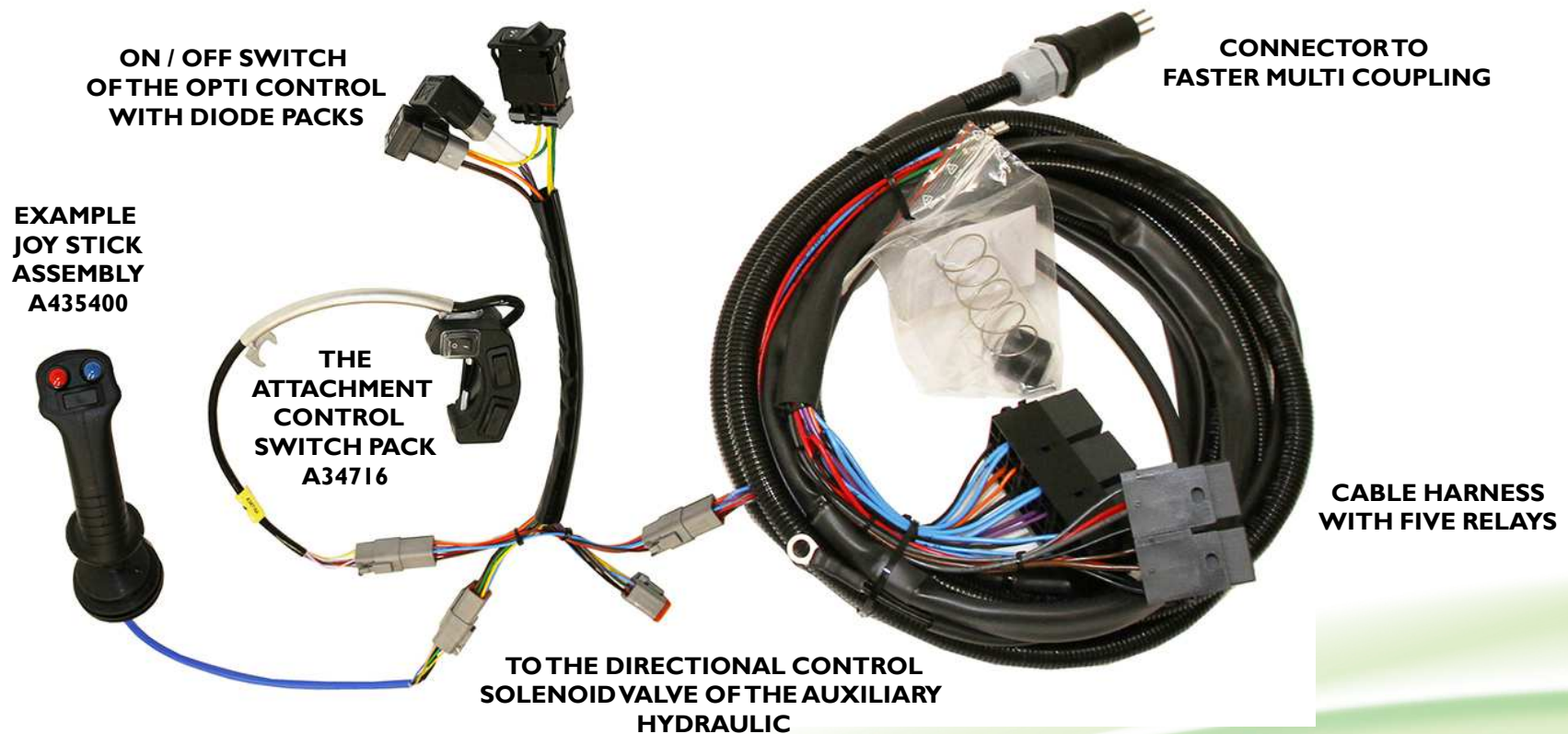
NOTICE:
The colours of the cables of the Attachment Control Switch Pack A34716, which will get connected to the retrofit kit A434228.



AVANT[®]

Luottamuksellinen

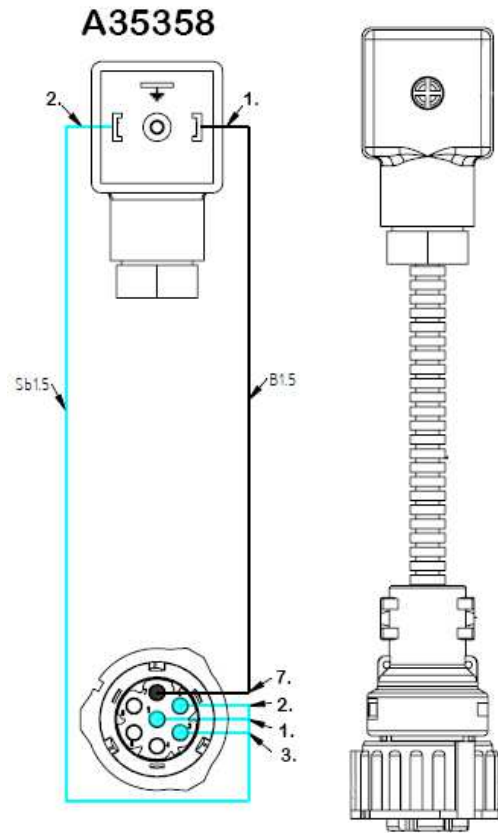
Opti Control, an up-dated electrical control for accessories



AVANT[®]

Luottamuksellinen

Opti Control, an up-dated electrical control for accessories



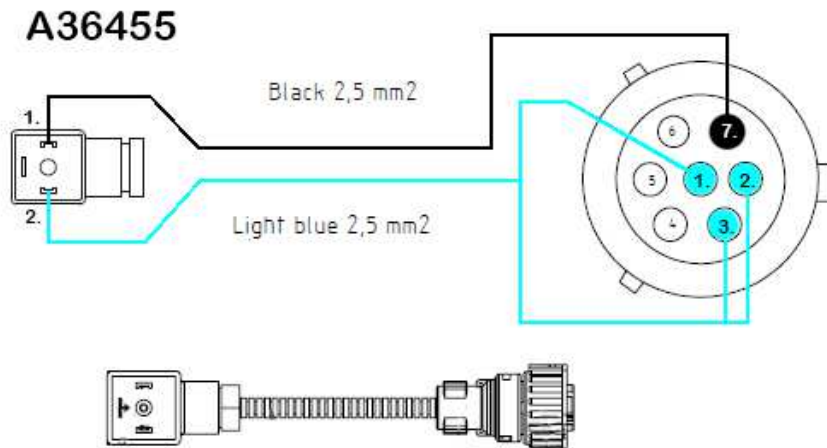
The cable harness p/n A35358 of the hydraulic Timber crab: A47456, the Pallet fork with side shift: A36279, the Flipper bucket: A414035 (before the up-date 2020) will be compatible beginning from the revision B of the harness.

Since then 4 pins have been connected, unlike the earlier versions, where there have been only two pins connected. In other words, those attachment can be made well-matched together with Opti Control just by replacing the originally delivered adapter cable. Within all new deliveries the modified harness: A45458 -revision B, will be standard.

AVANT®

Luottamuksellinen

Opti Control, an up-dated electrical control for accessories



Opti Control allows an easy operation for instance to the hydraulic operated Timber Crab, as one can completely avoid using the ON/OFF switch. You can rotate the crab using the push buttons and operate the rotator with the left swing switch No: 1. Also the use of the concrete mixing bucket can be made simple likewise, replacing the existing harness: A36455 to an up-dated one.

Also, the Snow Plow: A36795 and the A35796 can be modified with the kit A436302 to make it possible to operate each individual wing separately, as the flaps of the Flipper Bucket: A414035 are now. The new kit will soon be ready for this.

AVANT[®]

Luottamuksellinen

Opti Control, an up-dated electrical control for accessories 400- 500 series

Retrofit installation of Opti Control for the 400 and 500 models.

Not to make things too easy there are additional two extra triangle shape electrical Deutsch connectors, in the retrofit kits.

Avant 400 and 500 series loaders equipped with the 6-function joysticks have corresponding triangle Deutsch connectors with only three cables because only one hydraulically operated segment must get controlled with it.

That is why the A434228 harness assembly must get modified with a male and a female Deutsch connector before it can be fitted in line.

The task is simple.

Just disassemble the square shape sockets first which belong to the joy-stick side. There is an easy-to-recognise yellow-, and green cable indicating the correct set of cables which must get modified. Save the female and male pins on their original positions, but remove the other components of the 6-pin sockets.

Then cut off the BLUE-, BROWN-, and ORANGE-colour cables.

Then just install the triangle connectors accordingly the remaining male and female pins following the instructions concerning the positions and colours of the remaining three cables.

You can notice that the male and female end have changed positions, but in practice it does not matter.

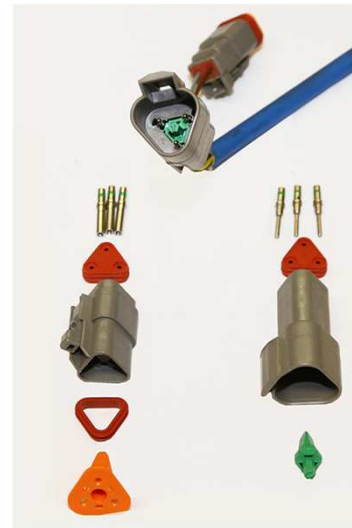
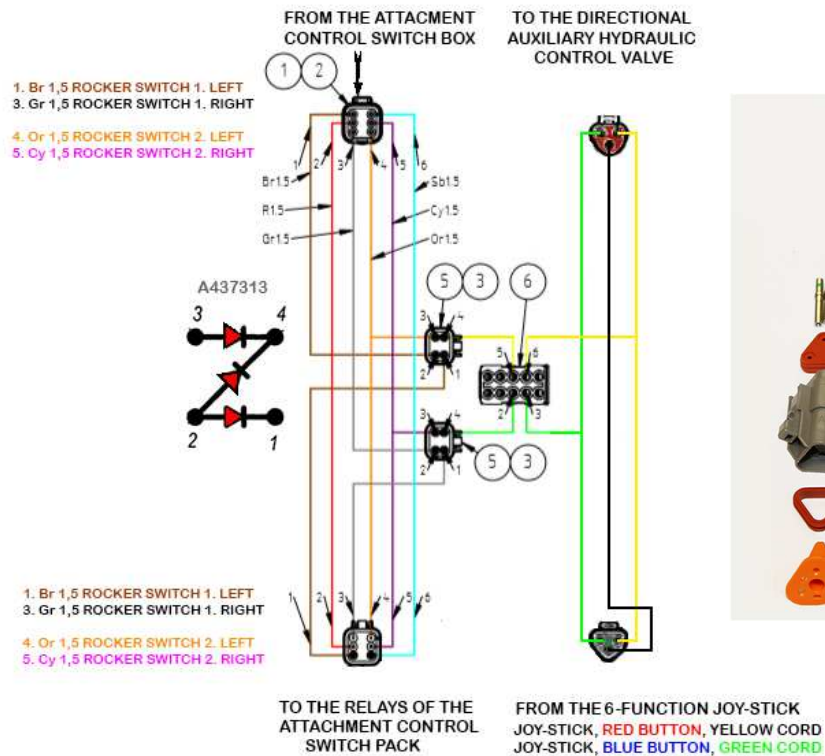
Then just install the system with the joy-stick connector and the cable connector of the solenoid operated directional control valve.

It is ready for a test.



Opti Control, an up-dated electrical control for accessories 400 – 500 series

A434228 MODIFIED FOR THE 400-500 SERIES

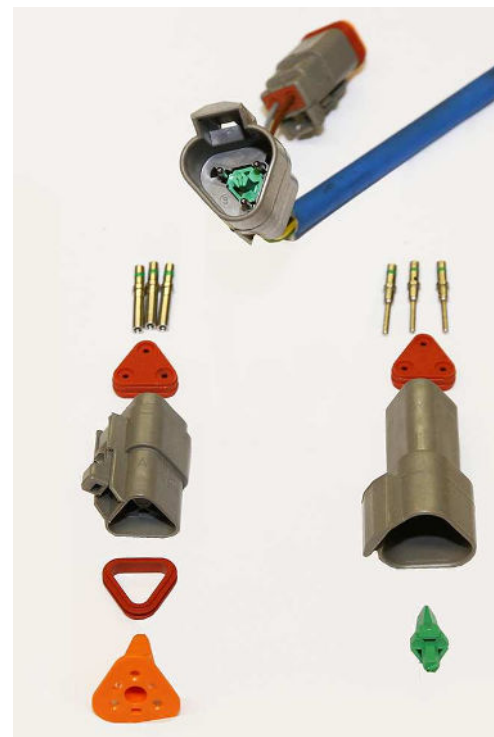
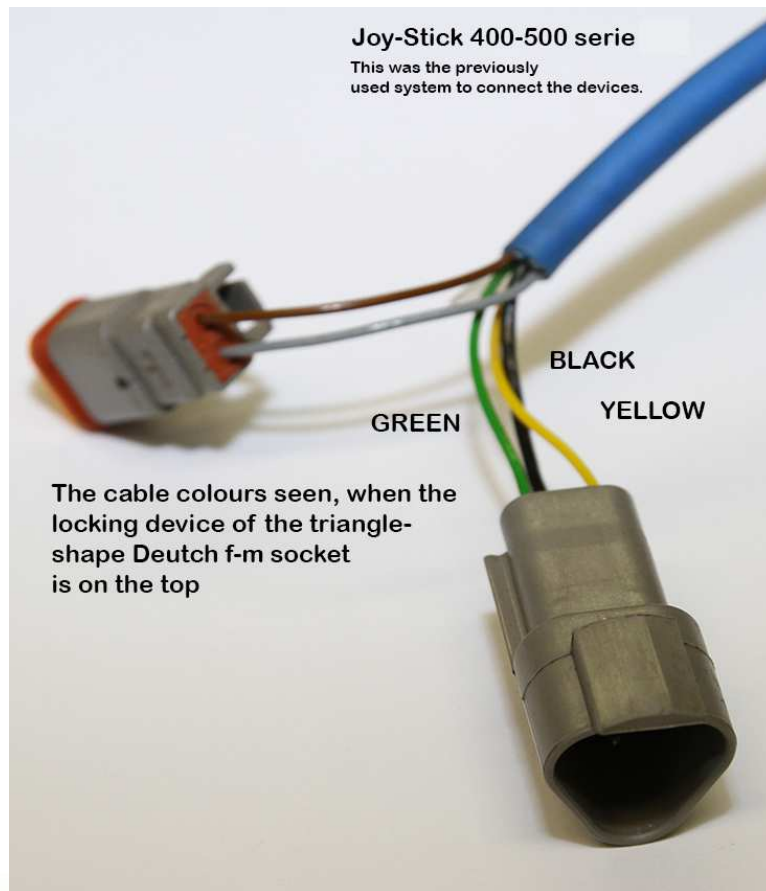


Existing cable harness must be modified to retrofit A434228 for Avant 400-, and 500 series loaders.

AVANT®

Luottamuksellinen

Opti Control, an up-dated electrical control for accessories 400- 500 series

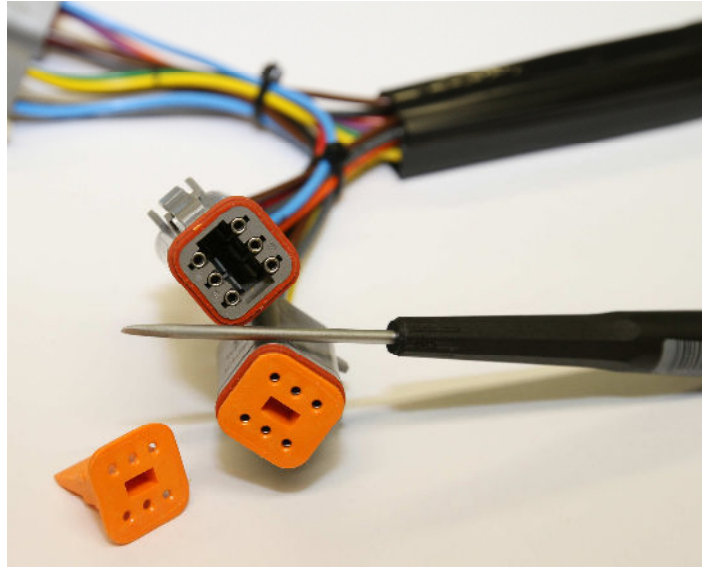
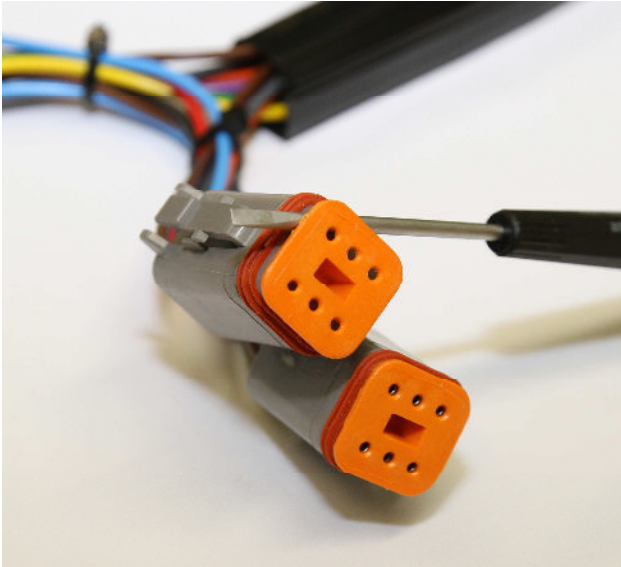


At disassembly some small sharp pitched pliers become handy whenever the green colour internal locking pin must be pulled out.

AVANT[®]

Luottamuksellinen

Opti Control, an up-dated electrical control for accessories 400- 500 series

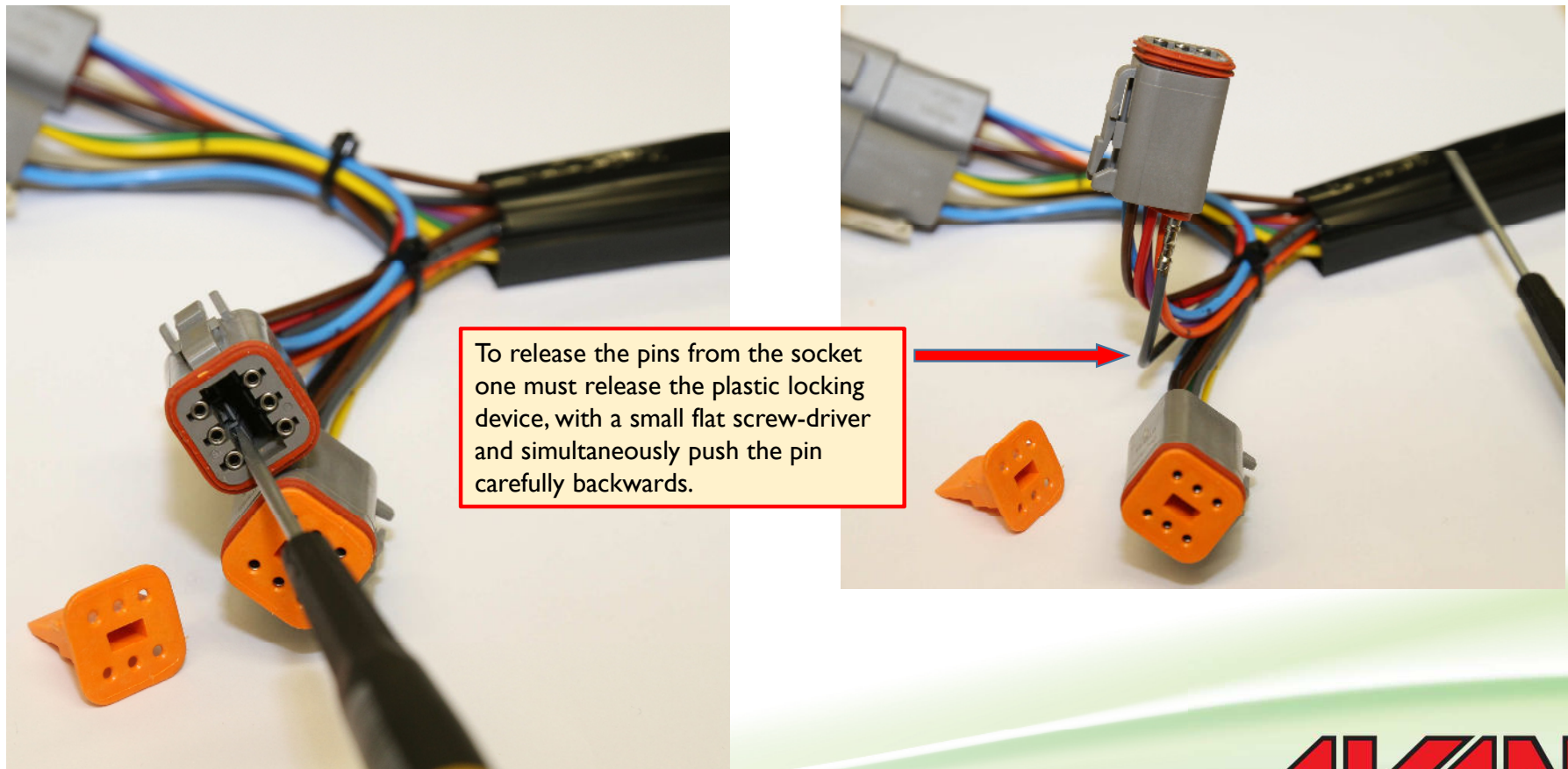


To disassemble the Deutsch connector you need just a small flat screw driver.

AVANT[®]

Luottamuksellinen

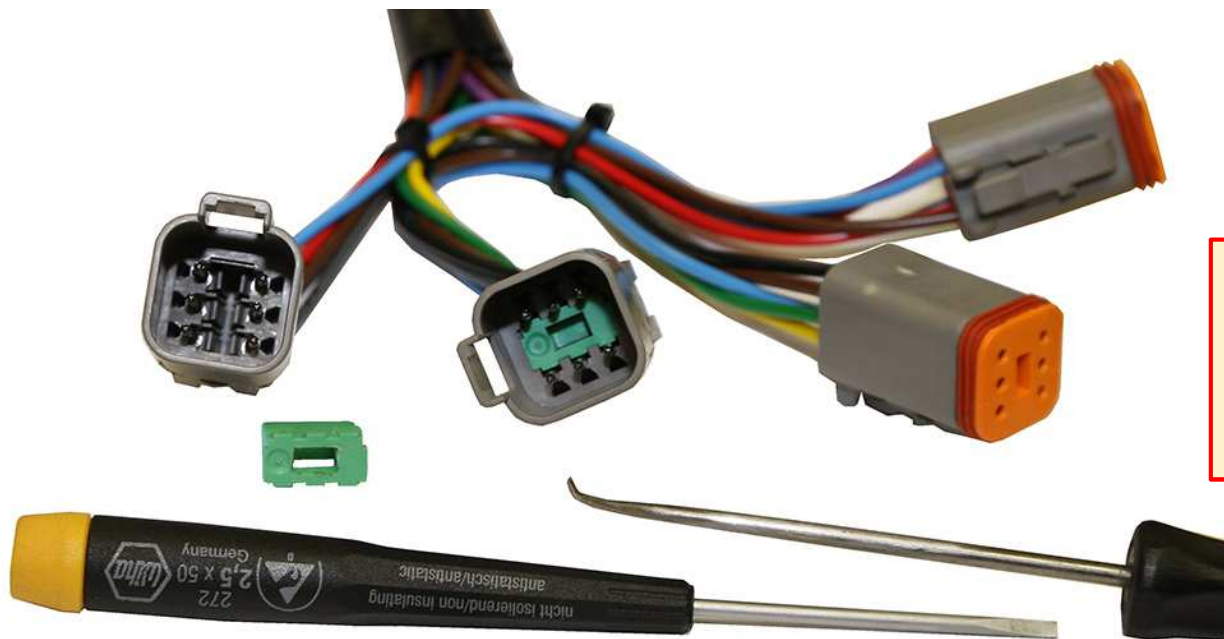
Opti Control, an up-dated electrical control for accessories 400 – 500 series



AVANT®

Luottamuksellinen

Opti Control, an up-dated electrical control for accessories 400- 500 series



To release the pins from the socket one must release the plastic locking device, with a small flat screw-driver and simultaneously push the pin carefully backwards. Similar as shown at the earlier example.

A small hook type tool is handy to pull out the green colour locking device From the female connector.

AVANT[®]

Luottamuksellinen

Opti Control, an up-dated electrical control for the Snow Plough



Avant Optidrive option Avant Snow Ploughs A36795 and A36796 have now two new improved control systems available for the ploughing blades.

Whenever the Optidrive has been activated to ON position: One can operate the right hand side blade individually, using the right side swing switch No:1, of the Attachment Control Switch Box.

The diagonal movement; swinging both blades simultaneously together, can then be controlled, using the red and blue buttons of the joy-stick.

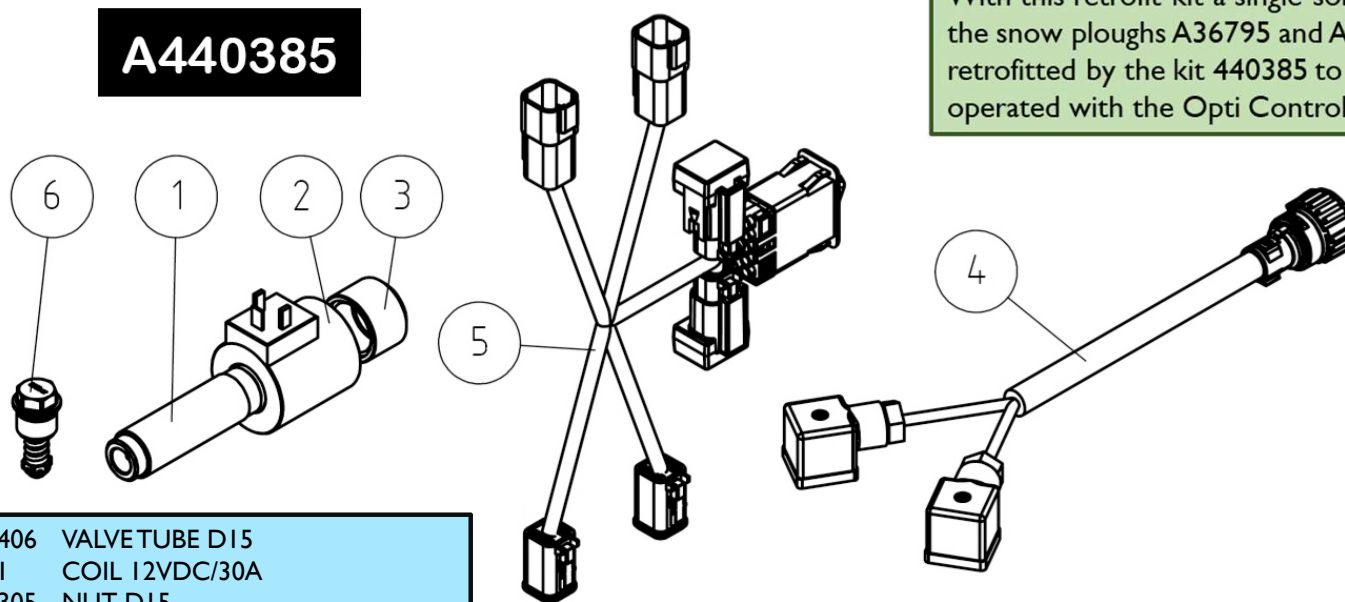
A further improved result can be achieved, if a retrofit kit p/n A440385 will be used, to make small modification to the existing solenoid control valve of the plough. With the help of the second solenoid coil and a new cable harness, for the double solenoid valve control, it will be possible to have also the left side blade operated individually, by using the left swing switch No: 2.

AVANT®

Luottamuksellinen

Opti Control, an up-dated electrical control for the Snow Plough

A440385



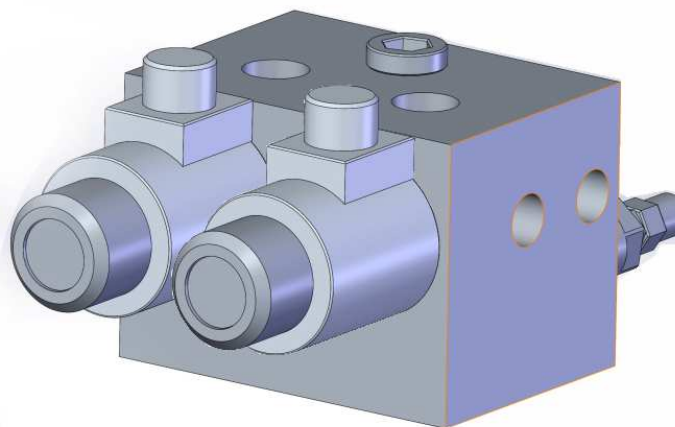
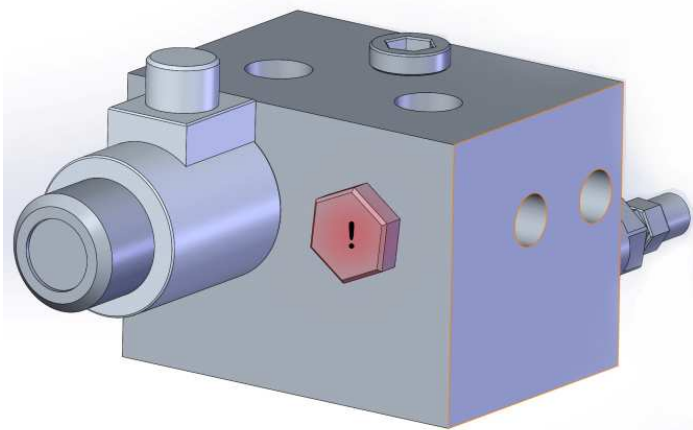
With this retrofit kit a single solenoid operated the snow ploughs A36795 and A36796 can get retrofitted by the kit 440385 to be successfully operated with the Opti Control system.

- | | | |
|----|---------|----------------------------|
| 1. | A436406 | VALVETUBE D15 |
| 2. | 66391 | COIL 12VDC/30A |
| 3. | A436305 | NUT D15 |
| 4. | A440387 | ELECTRICAL HARNESS 2-COILS |
| 5. | A437338 | RETROFIT KIT OIL-ON-DEMAND |

AVANT[®]

Luottamuksellinen

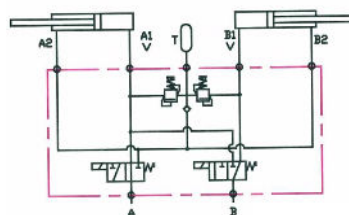
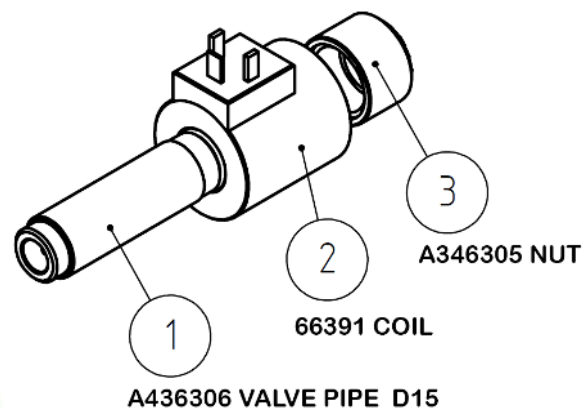
Opti Control, an up-dated electrical control for the Snow Plough



In this picture, the red colour plug has been replaced, installing another solenoid valve coil p/n 66391 to the originally used valve block p/n 66067,

After the modification the new p/n for this valve assembly is : A439139

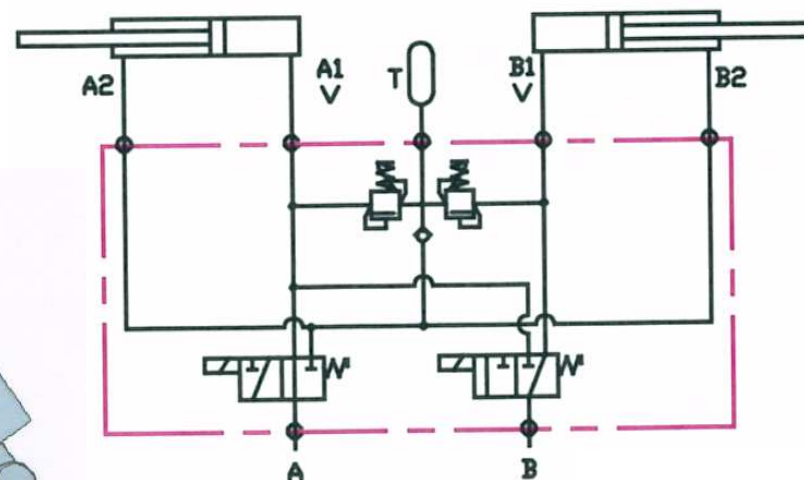
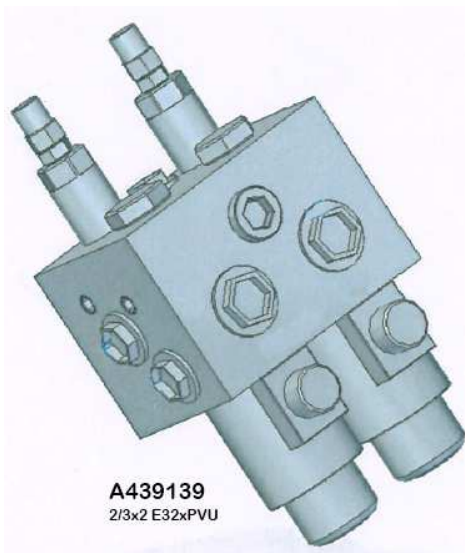
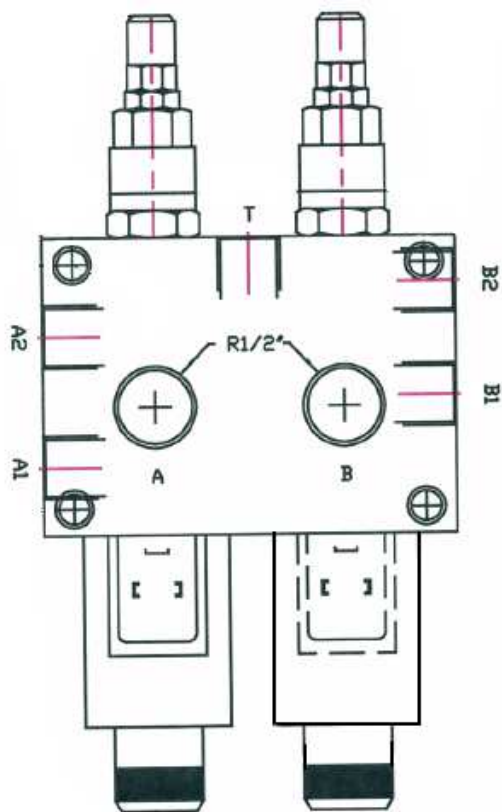
The new hydraulic schematic shown also, attached beneath.



AVANT[®]

Luottamuksellinen

Opti Control, an up-dated electrical control for the Snow Plough



AVANT®

Luottamuksellinen

Opti Control, an up-dated electrical control for accessories

AVANT[®]

Luottamuksellinen