

27 September 2025  
Version 1.7



*Snow* **STRIKER™**



# OWNER'S MANUAL

SML-PLOW

This manual replaces all editions with an earlier date.

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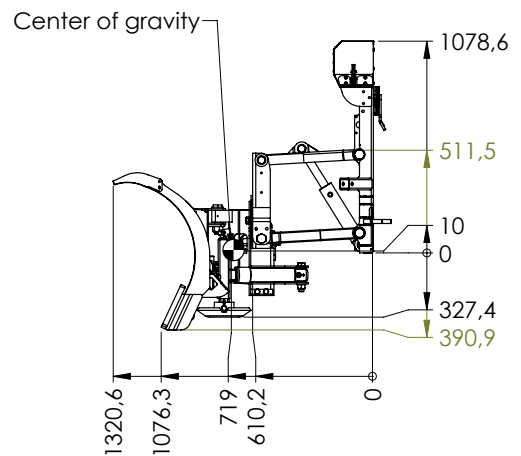
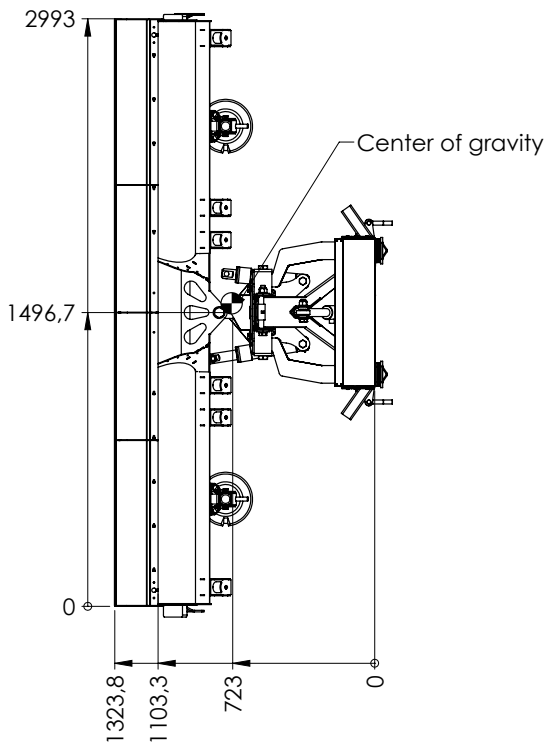
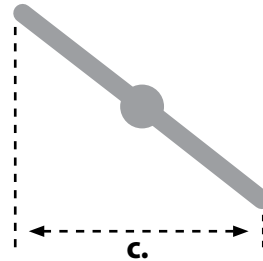
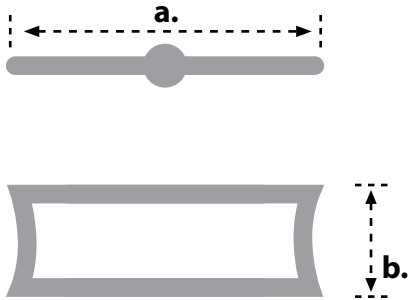
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**CAUTION** - Read this manual before installing or operating the snowplow

### Technical specifications

Model	2600-SML	2750-SML	3000-SML
Width (a.)	260 cm	275 cm	300 cm
Height (b.)	75 cm	75 cm	75 cm
Width, angled (c.)	225 cm	240 cm	260 cm
Weight	380 kg	395 kg	412 kg



## Safety instructions

Incorrect installation and operation can lead to serious personal injury and/or damage your equipment and property. Note and ensure that you understand this manual and all the labels before installing, operating or making adjustments to the snowplow.



### **WARNING**

Observe these safety precautions before, during and after operating the snowplow. You can prevent injury to persons and damage to the plow by following these precautions.



### **WARNING**

#### **Before operating snowplow:**

- Read this manual before operating the snowplow.
- Make sure that your vehicle total weight is not exceeded beyond payload limits.
- Inspect hydraulic components and hoses
- Check the snowplow and its components for cracks and defects before every plowing-session
- Replace any damaged or worn parts, a snowplow in need of repairs or maintenance should not be operated.
- Make sure the equipment is securely and correctly mounted.



### **WARNING**

#### **Maintenance of the snowplow:**

- Before removing or replacing any electrical components, always disconnect the battery.
- Use a piece of cardboard or wood to detect a suspected hose leak. Do NOT use your hand to locate it, hydraulic fluid can damage your skin.

**See page 10 for maintenance checklist**

### **Personal safety**

- To prevent accidents, secure long hair and do not wear jewelry or necktie, only wear tight-fitting clothes while working on your plow or vehicle.
- Protect your eyes with safety goggles to avoid damage from battery acid, gasoline, dirt and dust.



### **WARNING**

#### **While operating snowplow:**

- Make sure that bystanders keep a safe distance (3 m) when the blade is being operated, raised, lowered or angled. Don't stand between vehicle and blade, a moving or falling blade can cause personal injury.
- Transport speed should not exceed 70km/h
- Plowing speed should not exceed 40 km/h



### **WARNING**

#### **After operating snowplow:**

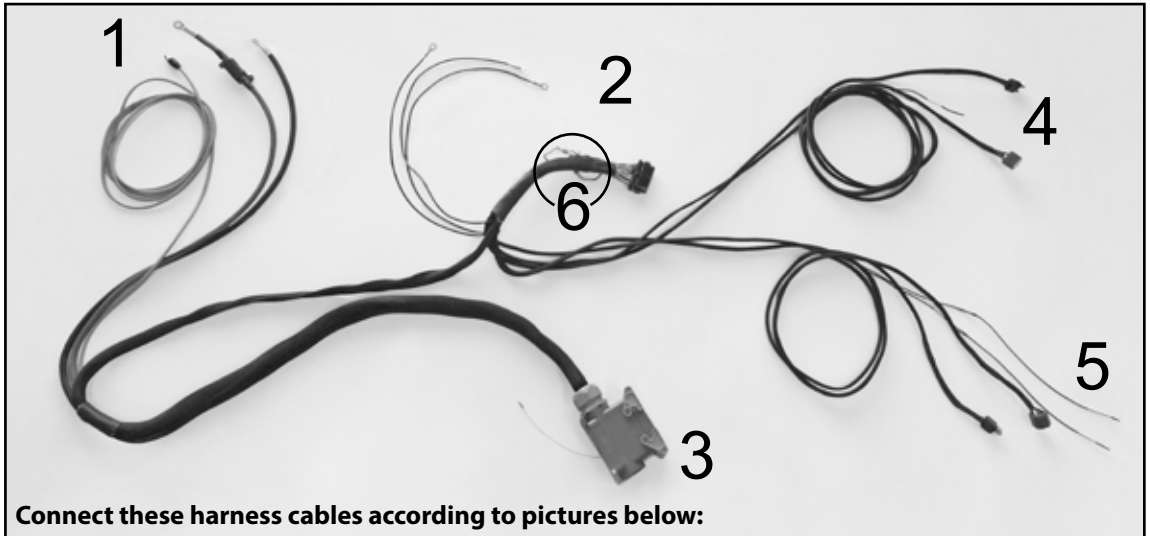
- Lower the plow when vehicle is parked. The hydraulic pressure can change if temperature changes, causing an unexpected plow drop which can lead to plow damage or personal injury.

## Warning and caution labels

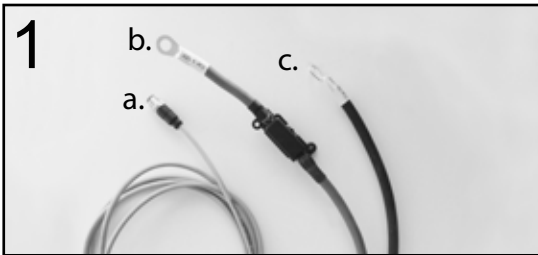
Please become familiar with these warning and caution labels on the plow.



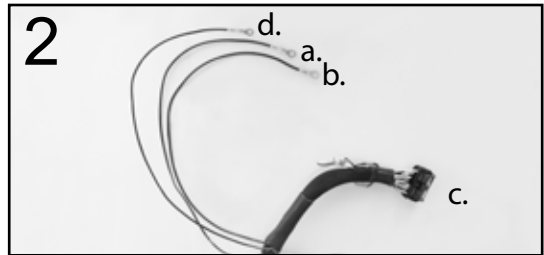
Vehicle harness



Connect these harness cables according to pictures below:



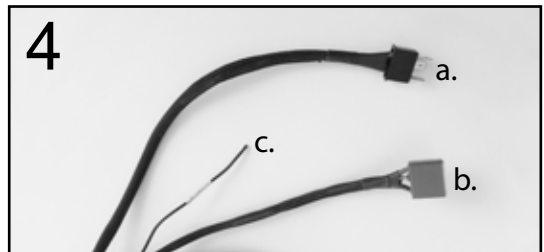
**1a.** Joystick cable    **1b.** Car + 12V (red)  
**1c.** Car ground



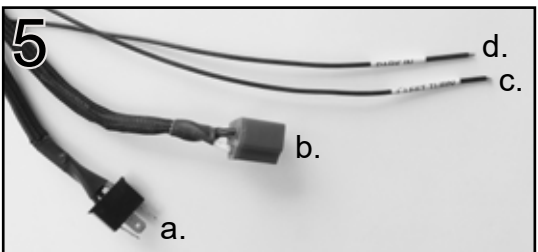
**2a.** Car +12V (VCC +12V)    **2b.** Car ground (GND)  
**2c.** Light module    **2d.** Car +12V



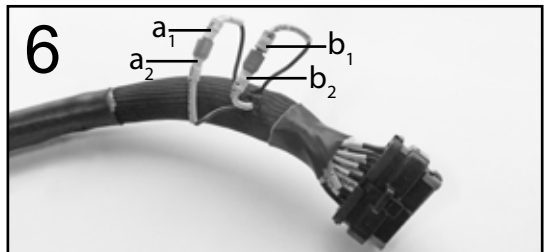
Plow connector



**4a.** Light connector (vehicle harness)  
**4b.** Vehicle light bulb    **4c.** Right turn

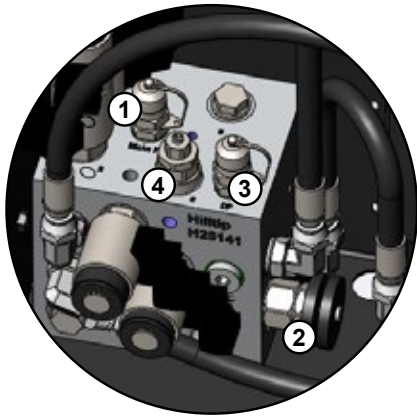


**5a.** Light connector (vehicle harness)  
**5b.** Light connector (bulb)  
**5c.** Left turn    **5d.** Park



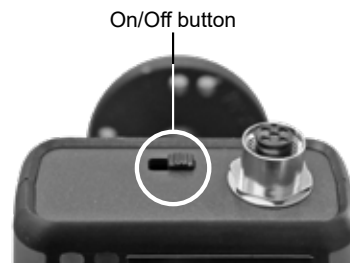
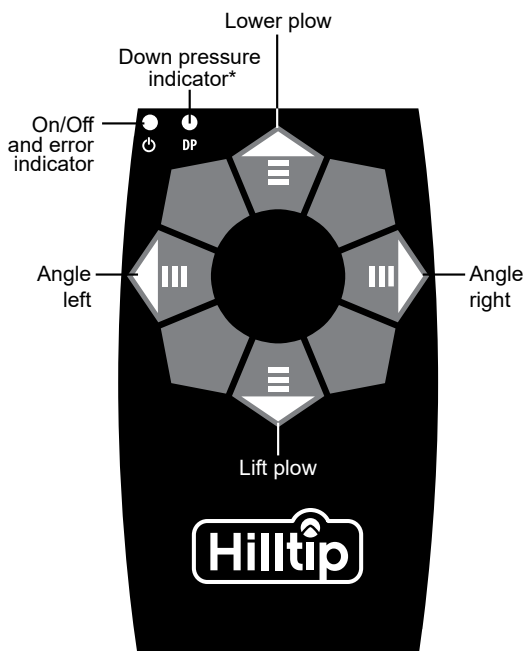
**6a<sub>1</sub> = 6a<sub>2</sub> = turn LEFT    6b<sub>1</sub> = 6b<sub>2</sub> = turn RIGHT**  
Switch these cables if the turn lights are flashing on the opposite/wrong side

## Motor valve



1. Main pressure
2. Adjust drop speed
3. Down pressure gauge port
4. Down pressure adjustment

## Joystick



### \* Down pressure function

Push the joystick knob upwards (lower plow) for more than 3 seconds to apply down pressure. This function presses the snowplow down to the ground to give you a cleaner scrape when plowing.

The downpressure-function will automatically be deactivated 30 seconds after it has been applied.

### Automatic shut-down

The joystick/IO module and snowplow will automatically shut down after being inactive for 5 minutes. To reactivate, move joystick knob or turn it off and on again.

## Error codes

The on/off and error indicator LED located in the upper left corner of the joystick will show a green light when turned on and if no errors are detected. If a problem is detected, the LED will flash with a red light a number of times, pause, and then repeat.

### Error codes:

Type/number of flashes	Problem
Green light	No errors detected
Constant red light	Communication problem between IO box and joystick
1 flash	Valve #1a or #1b not connected, or broken cable/coil
2 flashes	Valve #2a or #2b not connected, or broken cable/coil
3 flashes	Valve #3 or #4 not connected, or broken cable/coil

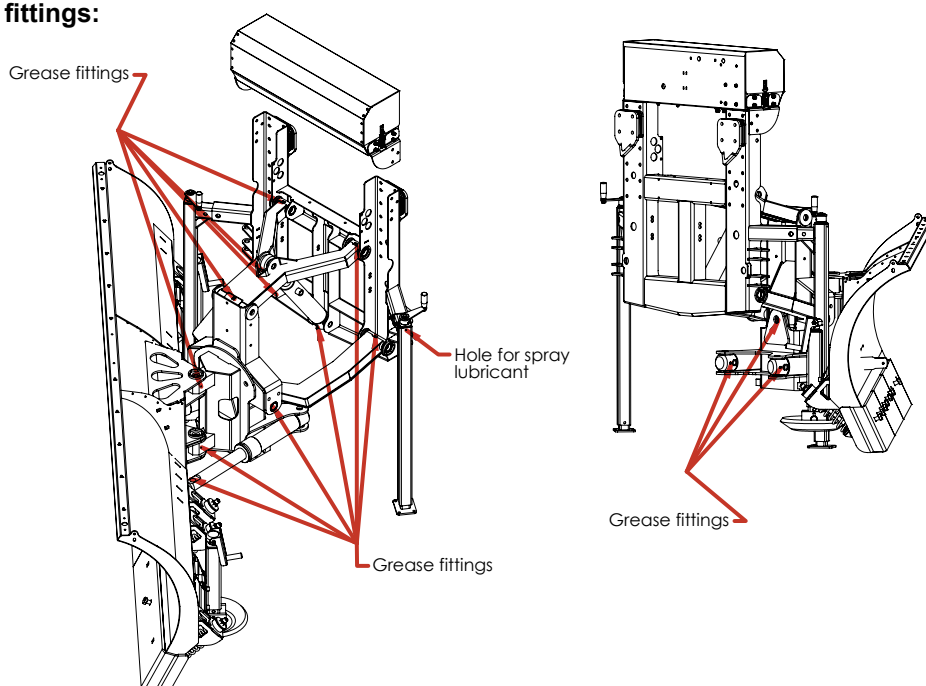
## Maintenance

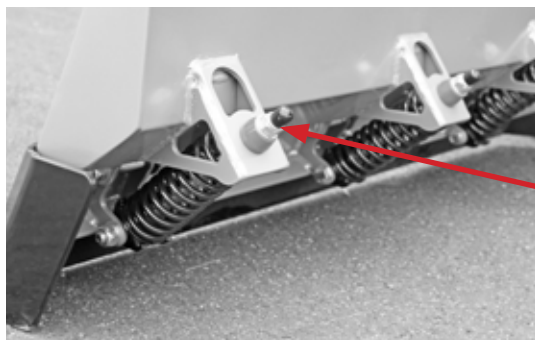
Follow this checklist to keep your snowplow in good condition and to be able to maintain full warranty for possible damages.

Periodical maintenance checklist	Yearly maintenance checklist
Check that fasteners are tight enough.	Pressure wash and dry the plow carefully before putting it in storage.
Check for scratches and exposed metal, clean and apply touch-up paint.	
Clean and apply dielectric grease on all electrical plugs and connectors. Clean and install all dust caps before placing your plow in storage.	
Lubricate all pins, bushings and the A-frame latch.	
Inspect hydraulic components, hoses and cylinders, check for leaks and wear.	Lubricate all exposed cylinder rod ends with liquid white lithium grease to prevent corrosion.
Inspect rod ends for corrosion and pitting.	Change oil every 100th hour or annually. Empty the pump fluid reservoir, discard the old fluid properly. Clean pump filter and fill the reservoir with new hydraulic fluid to 2 cm from the top. By changing the fluid annually, the pump and manifold lifetime will be extended. Never mix different fluid types.
Check cutting edges for wear.	
Check the hydraulic fluid level. Fill with fluid to 2 cm from the top of the reservoir, do not exceed this level. Never mix different fluid types. Change oil every 100th hour or annually.	
Remove snow and ice build-up from the pump and A-frame.	Cover the snowplow with a tarp during storage, to protect it from sun fading and other weather conditions and circumstances.

For the snowplow hydraulic system we recommend using: **ISO VG 15 - Teboil hydraulic Arctic oil**

### Grease fittings:



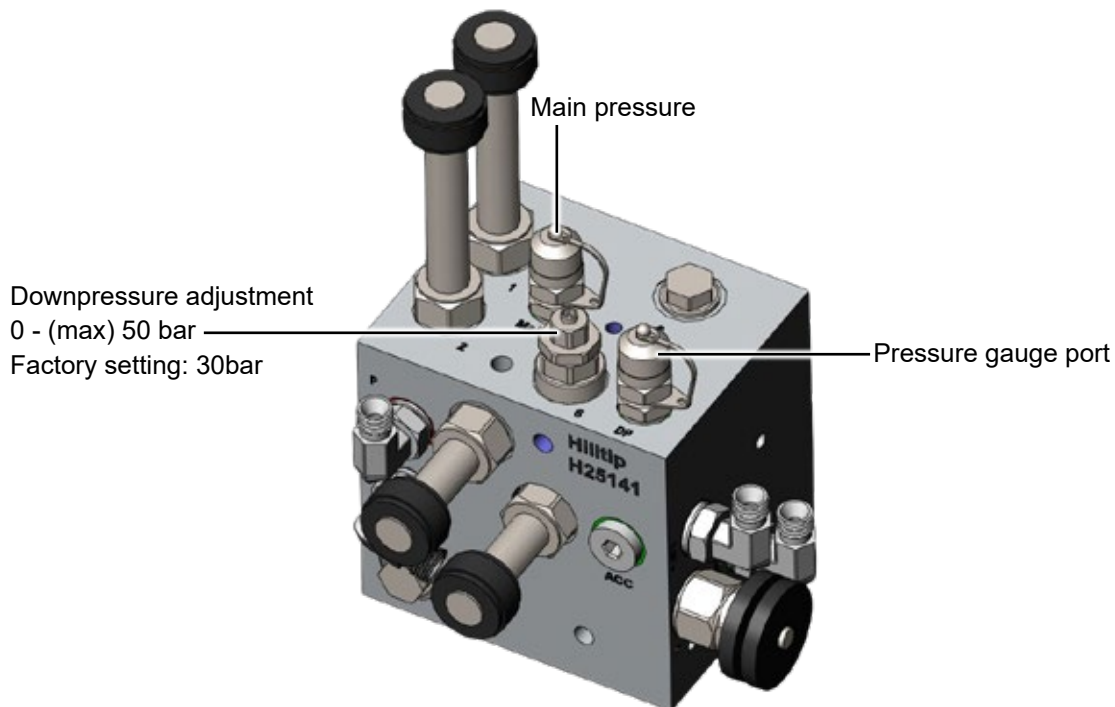


Adjust cutting edge attack angle

### Valve electrical functions

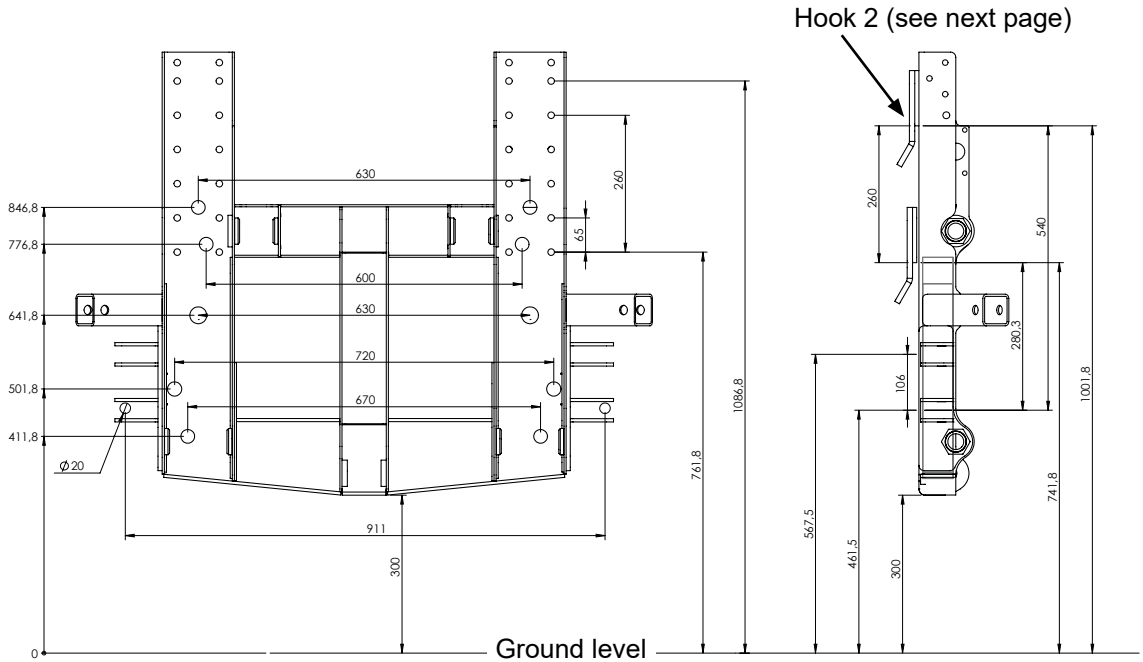
Blade movement	Angle right	Angle left	Down pressure	Raise	Lower	Idle	Float
MOTOR			*				
#1a							
#1b							
#2a							
#2b			*				
#3							
#4							

1\* = Goes low after 30 sec.

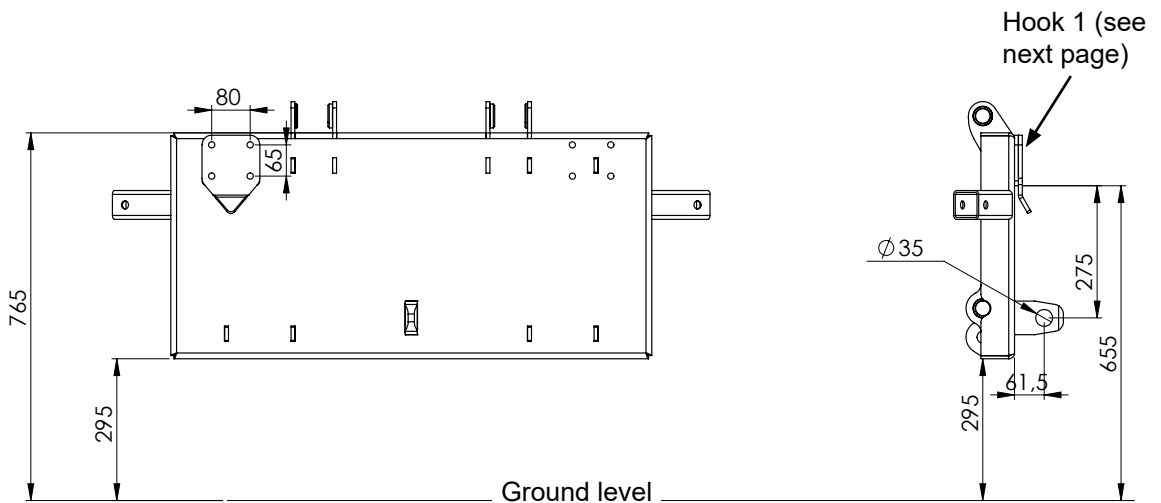


## DIN plate dimensions and mounting height

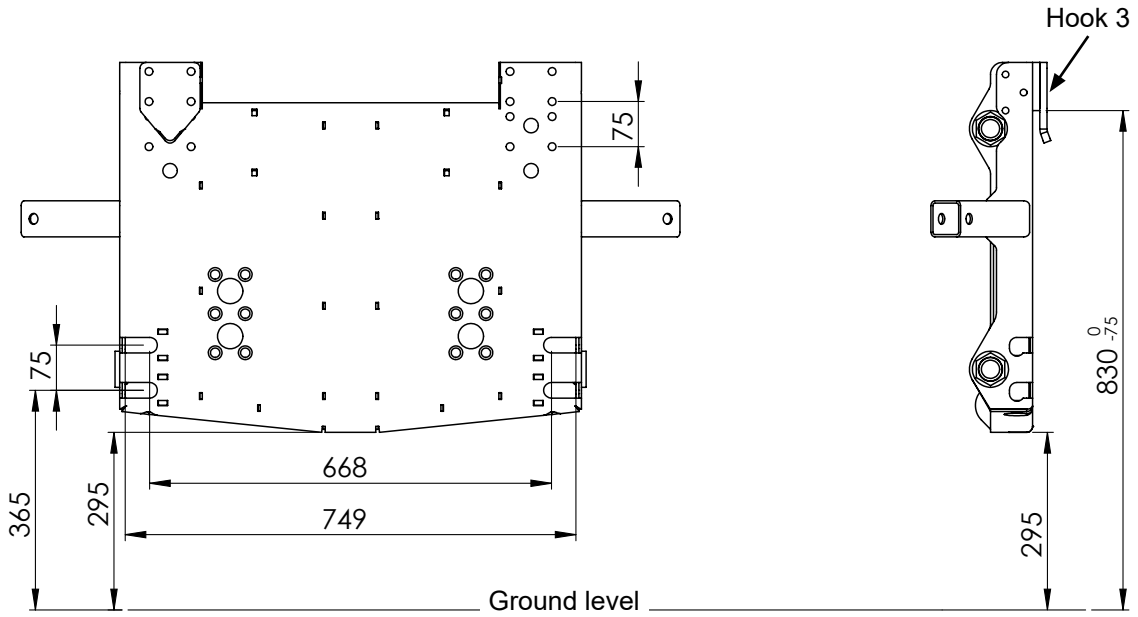
### F1 dimensions (mm), standard



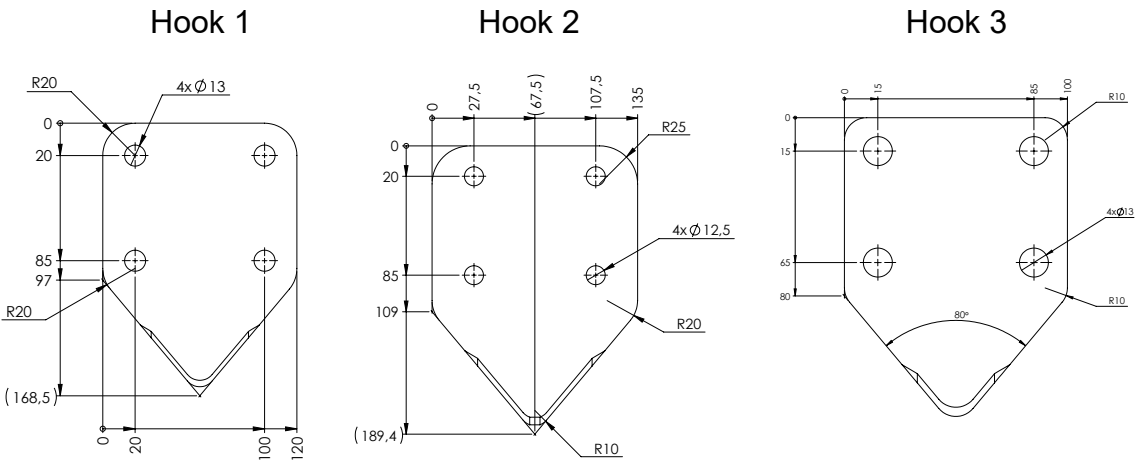
### F2 dimensions (mm), TVH mini



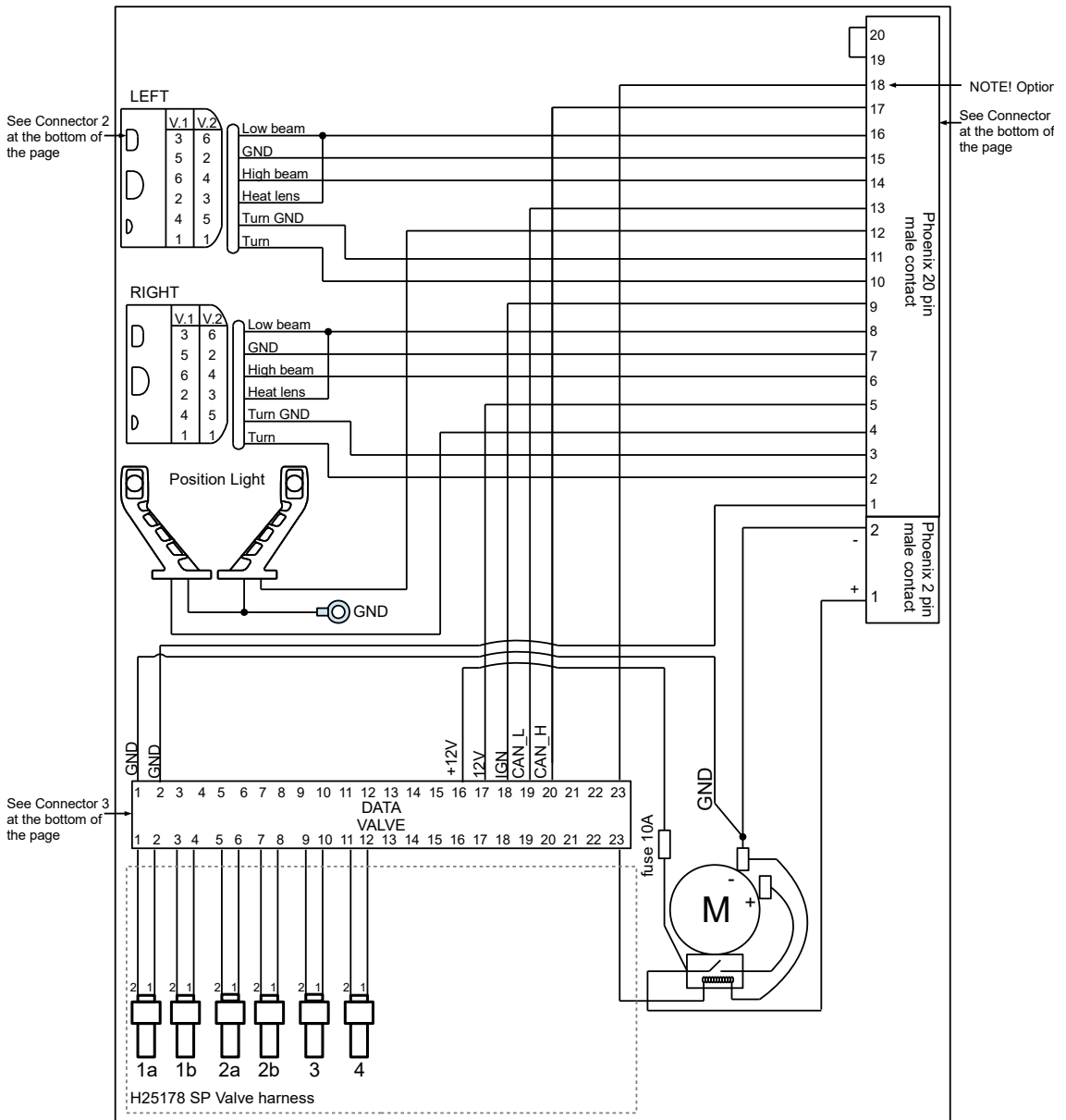
**F3 dimensions (mm), VSS-B**



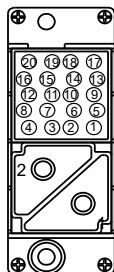
**Hook dimensions (mm)**



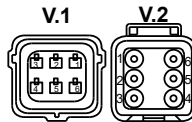
# Plow side electrical schematics with lights - H24191



**Connector 1:**  
Phoenix 20-pin  
side connector

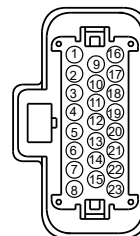


**Connector 2:**  
Plow light  
connector

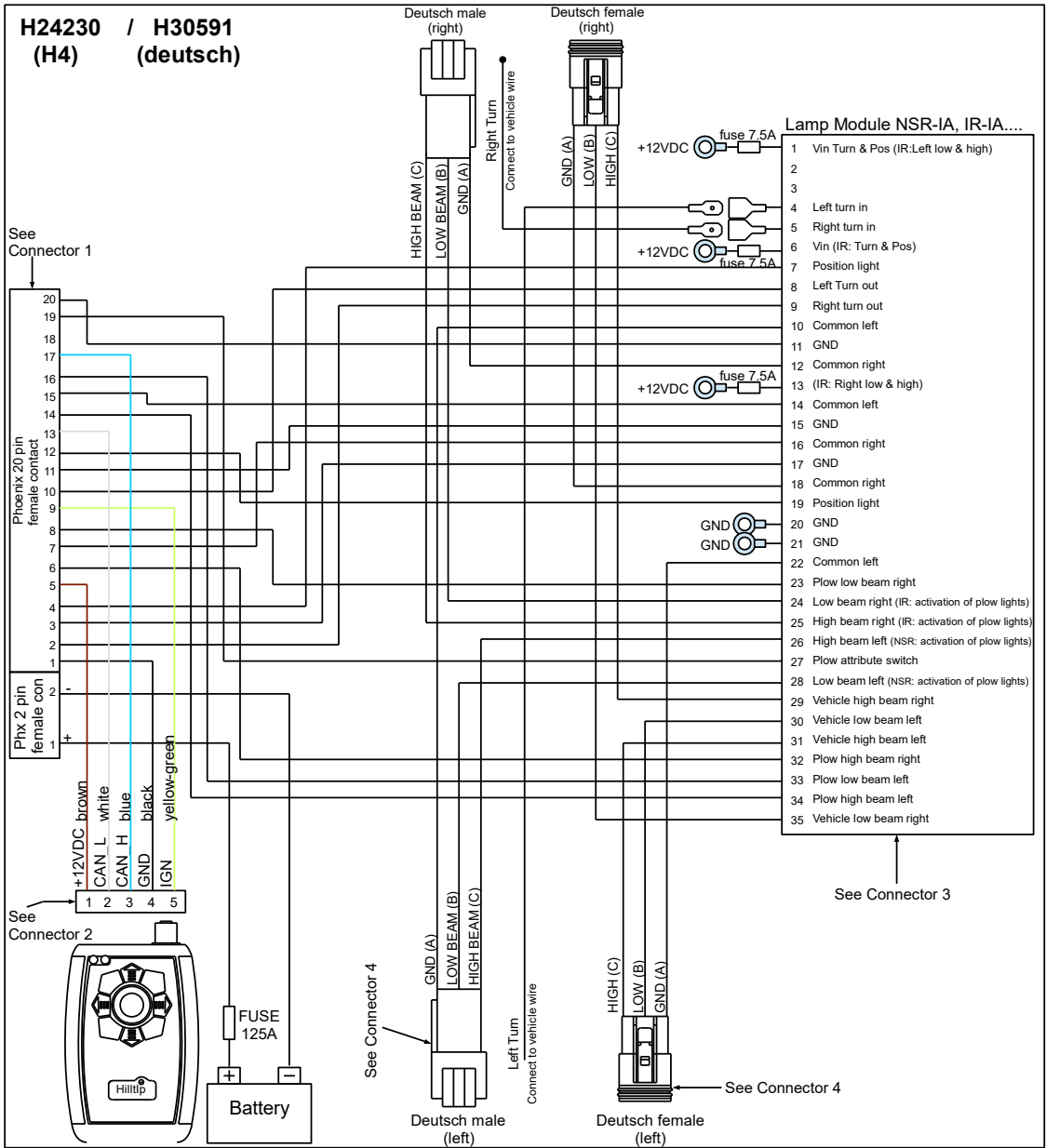


V.1		V.2	
1	1	Turn	
5	2	GND	
2	3	Heat lens	
6	4	High beam	
4	5	GND (turn)	
3	6	Low beam	

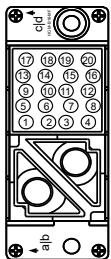
**Connector 3:**  
23-pin  
connector



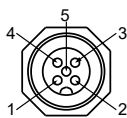
## Vehicle side electrical schematics with lights - H24230



**Connector 1:** Phoenix 20-pin vehicle side connector

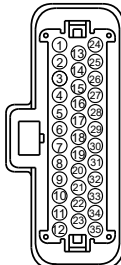


**Connector 2:** Connector to joystick (male)

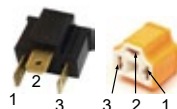


1. +12VDC
2. CAN\_L
3. CAN\_H
4. GND
5. Activation

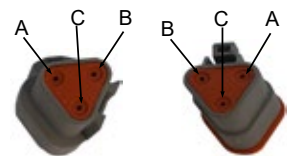
**Connector 3:** 35-pin main connector



**Connector 4:** H4 connector or Deutsch connector

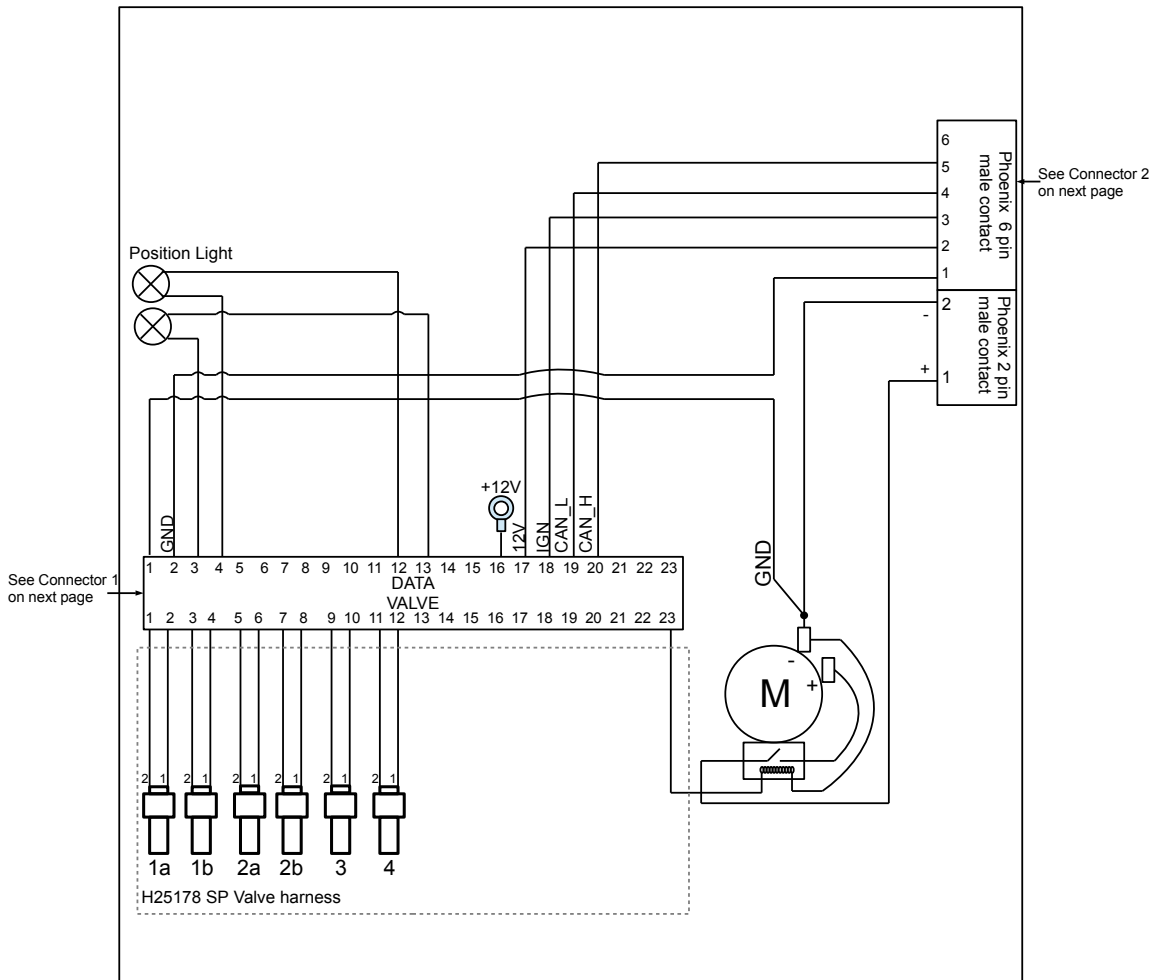


1. GND
2. Low beam
3. High beam

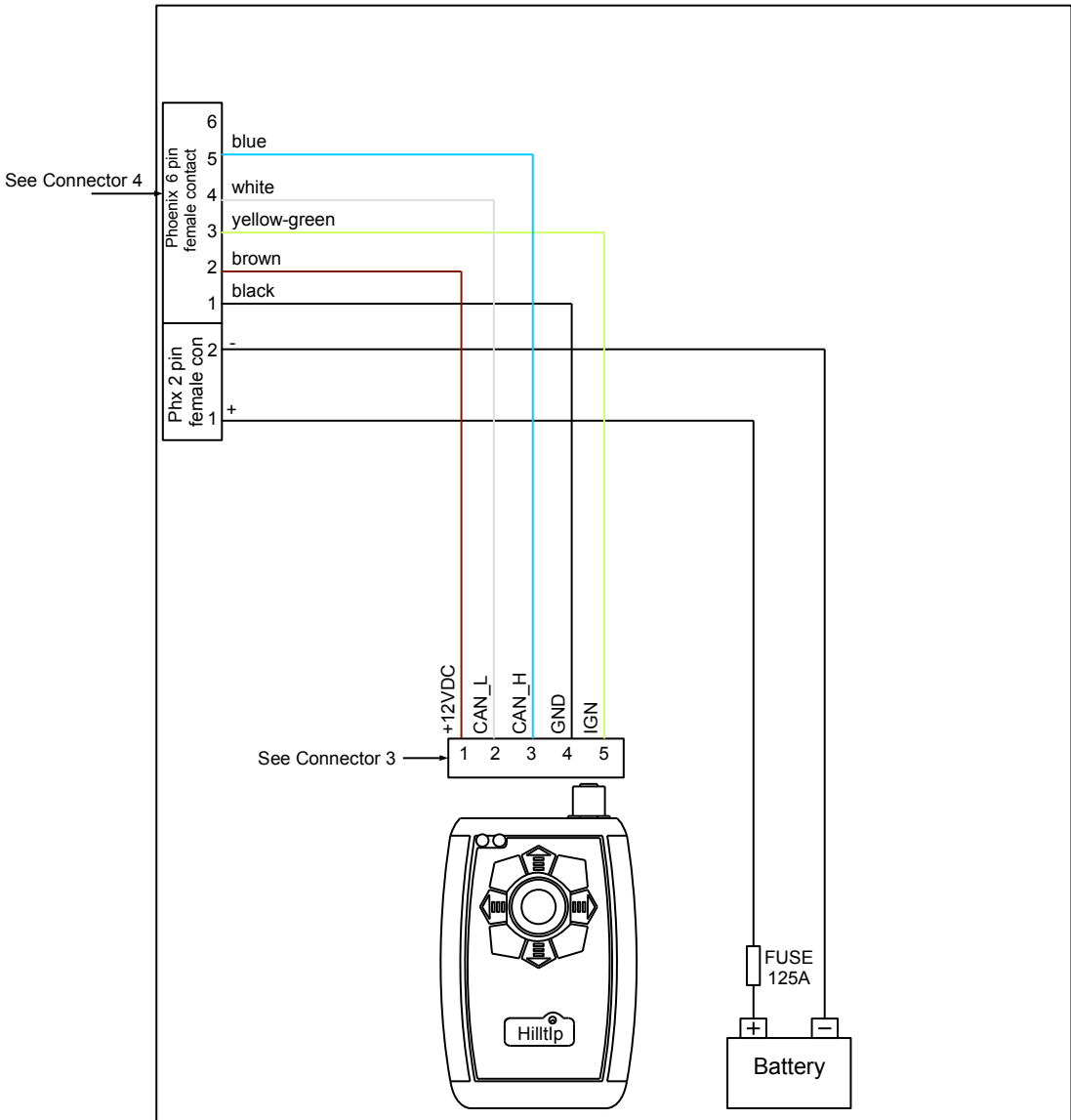


- A. GND
- B. Low beam
- C. High beam

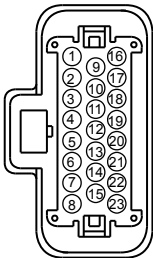
### Plow side electrical schematics - H25925



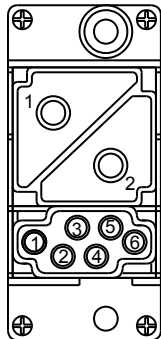
# Vehicle side electrical schematics - H25924



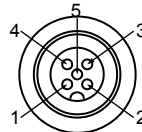
**Connector 1:**  
23-pin  
connector



**Connector 2:**  
Phoenix 6-pin plow  
side connector

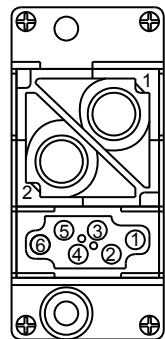


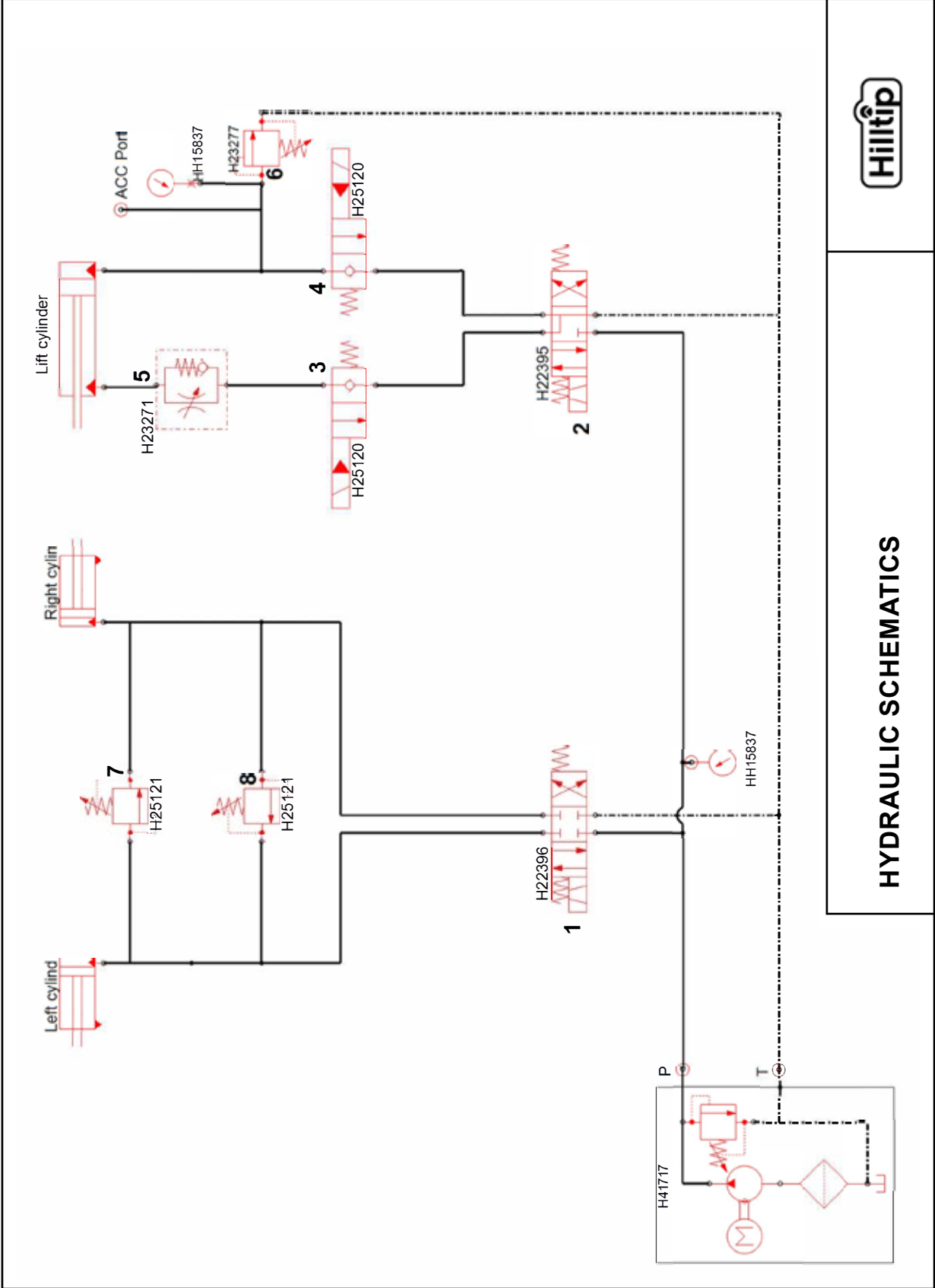
**Connector 3:**  
Connector to  
joystick (male)



1. +12VDC
2. CAN\_L
3. CAN\_H
4. GND
5. Activation

**Connector 4:**  
Phoenix 6-pin vehicle  
side connector





# HYDRAULIC SCHEMATICS



## Warranty information

*This warranty replaces all previous warranties*

### Warranty

Thank you for your interest in the products and services of Oy Hilltip Ab. This Limited Warranty applies to snowplows, spreaders, sweepers and other products and parts (from now on referred to as the "Product" ) purchased from Hilltip or an authorized dealer.

### What does this limited warranty cover?

This Limited Warranty covers any defects in material or workmanship under normal use during the Warranty Period.

During the Warranty Period, Hilltip, or an authorized dealer will repair or replace, at no charge, products or parts of a product that proves defective because of improper material or workmanship, under normal use and maintenance.

### How long does the coverage last?

The Warranty Period for the product purchased from Hilltip, or an authorized dealer is two (2) years from the date of purchase. The warranty period for a replacement part is one (1) year from the date of replacement or repair.

### What does this limited warranty not cover?

- Improperly installed parts.
- Damage caused by usage that is not in accordance with product instructions.
- Modification of the product, and/or the vehicle, is entirely at the purchaser's risk.
- This warranty does not include compensation for the drive to the service spot.
- Any damage in transit will be the responsibility of the carrier or at the risk of the purchaser.
- Hilltip will not provide replacement equipment or cover rental costs while your equipment is out of service.

This Limited Warranty does not cover any problem that is caused by:

- Misuse, neglect, accident, improper installation, maintenance or storage, or repair or alternation by anyone except Hilltip or an authorized dealer.

### What do you have to do?

To obtain warranty service, you must first contact us or your authorized dealer. The purchaser must notify Hilltip or an authorized dealer within ten (10) days after any defect in the product becomes known during the warranty period

### What will we do to correct problems?

Hilltip, or an authorized dealer will repair or replace the part at no charge using either new or refurbished replacement parts.



## DECLARATION OF CONFORMITY

Manufacturer's & Assambler's Name: **Oy Hilltip Ab**

Manufacturer's & Assambler's Address: **Pukkisaarentie 6, FIN-68600 Pietarsaari, Finland**

Equipment Description: Hilltip Snowplow Applications

Equipment Model Designation: Hilltip SnowStriker 2600-SML, 2750-SML, 3000-SML

Equipment applications: Trucks

The equipments specified above are manufactured, where applicable, in conformity with provisions of the normative document according to the following directives and standards, in addition to relevant Road Traffic Regulations in European countries:

- 2006/42/EC
- EN 15432-1
- 2009/433/EG

I, the undersigned, hereby declare that the equipments specified above, that have been assembled by Oy Hilltip Ab, conforms to the above directives and standards

Pietarsaari August 3rd, 2015

Signature:

Printed Name: Tom Mäenpää

Title: CEO

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Installer's Name:

Installer's Address:

Type:

Serial number:

Year of installation:

I, the undersigned, hereby declare that the equipment installation to the vehicle specified above conforms to the directive 2006/42/EC and relevant Road Traffic Regulations.

DATE:

Signature:

Printed:

Title:



**Oy Hilltip Ab**  
Pukkisaarentie 6  
68600 Pietarsaari  
Finland

[www.hilltip.com](http://www.hilltip.com)  
[info@hilltip.com](mailto:info@hilltip.com)

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*Specifications and other details are subject to change without notice.*