

Индикативно предложение по проведени пазарна консултация №57252
с предмет "Доставка и монтаж на 2 /два/ броя гребла за почистване на сняг"

от **Екосол България АД**, ЕИК: **200358273**, адрес: **община Столична, пощ.код 1151, с. Лозен, ул. Съединение 127 г**, телефон: **02 81 77 620**, ел. поща: **office@ecosol.bg**, лице за контакт: **Стойо Чакъров**, длъжност: **председател на Съвета на директорите**
/наименование на участника, ЕИК, адрес, телефон, ел. поща, лице за контакт, длъжност/

№ по ред	ID на Възложителя	Описание и технически характеристики на предлаганото изделие	М.е.	К-во	Ед. цена в EUR без ДДС	Стойност в EUR без ДДС
1	АЕЦ Козлодуй ЕАД	Описание на предлаганото изделие: гребло за почистване на сняг марка: Hilltip , модел: Snowstriker 3400 SHL Технически характеристики на предлаганото изделие: ширина: 3400 мм; оборудвано с електрохидравличен агрегат; с регулируем ъгъл на почистване; с включен монтаж, включващ всички необходими части за монтиране към камионите(Din плочи и др.), на товарени автомобили Mercedes-Benz Arocs 1835 с VIN номера: W1T96420210770035 и W1T96420X10769750.	бр.	2	24 200,00	48 400,00
Обща стойност в EUR без ДДС						48 400,00

Срок на доставка

до 6 (шест) седмици от датата на подписване на договора

Условие на доставка	Оборудването ще бъде доставено на място, посочено от АЕЦ Козлодуй ЕАД
Гаранционен срок	1 (една) година от датата на подписване на приемо- предавателен протокол за доставка
Производител	Оу Hilltip АВ - Финландия Декларация за съответствие, Гаранционна карта, Приемо-предавателен протокол, Ръководство за експлоатация
Съпроводителна документация при доставка	Оторизационно писмо от производителя
Документ за представителство	

31 March 2025
Version 1.5



Snow **STRIKER™**



OWNER'S MANUAL

2600-3000 SML & 3400 SHL SNOWPLOW FOR TRUCKS

This manual replaces all editions with an earlier date.

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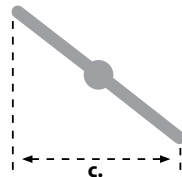
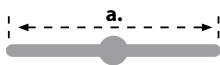
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CAUTION - Read this manual before installing or operating the snowplow

Technical specifications

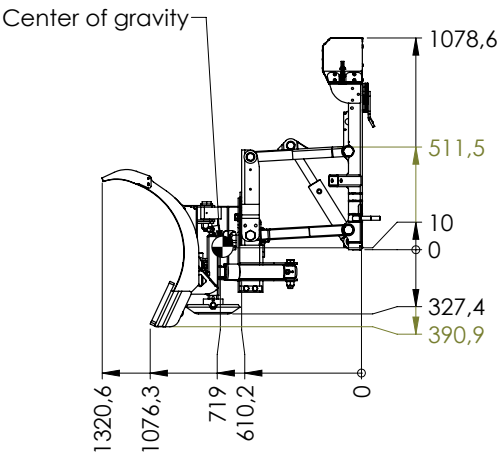
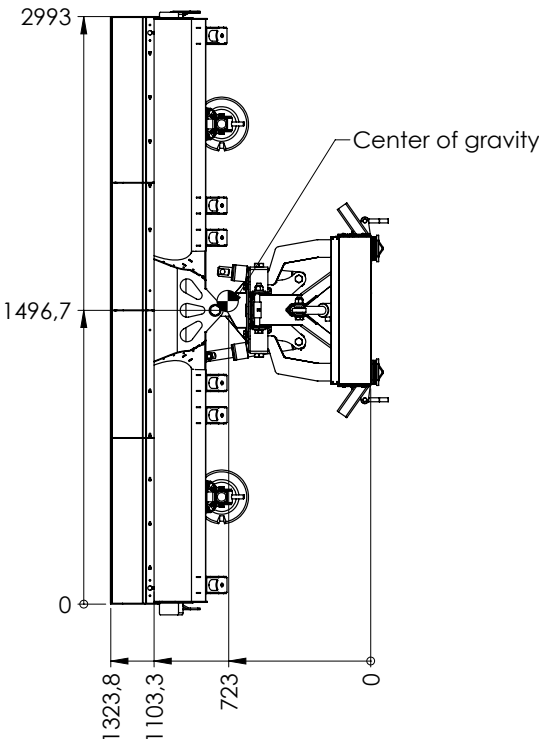
Model	2600 SML	2750 SML	3000 SML	3400 SHL
Width (a.)	2600 mm	2750 mm	3000 mm	3400 mm
Height (b.)	750 mm	750 mm	750 mm	1050-1350 mm
Width, angled (c.)	2370 mm	2550 mm	2720 mm	2945 mm
Weight	380 kg	395 kg	412 kg	900 kg



SnowStriker™ 2600-3000 SML



SnowStriker™ 3400 SHL



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.

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

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

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 15 km/h



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.



WARNING

After operating snowplow:

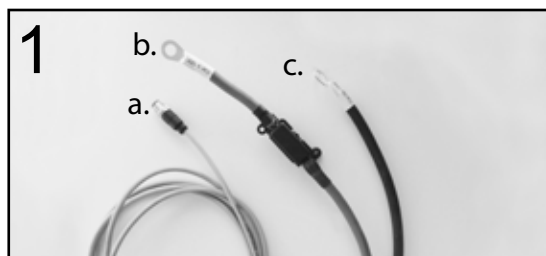
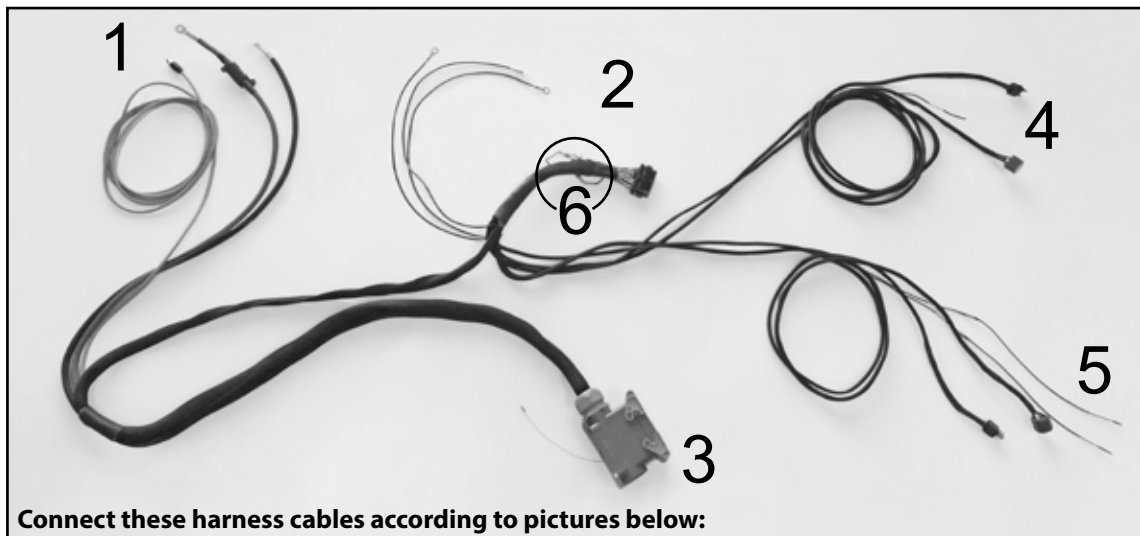
- Lower the plow when vehicle is parked. The hydraulic pressure can change if temperature changes, causing an unexpected plow drop which can lead to plow damage or personal injury.

Warning and caution labels

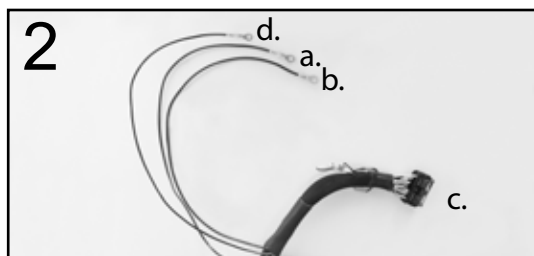
Please become familiar with these warning and caution labels on the plow.



Vehicle harness



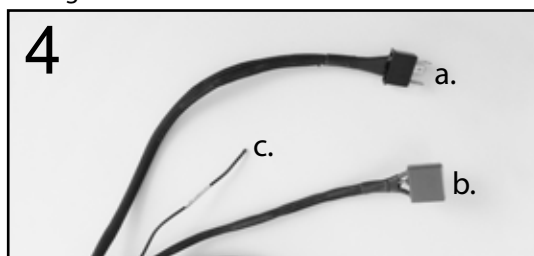
1a. Joystick cable **1b.** Car + 12V (red)
1c. Car ground



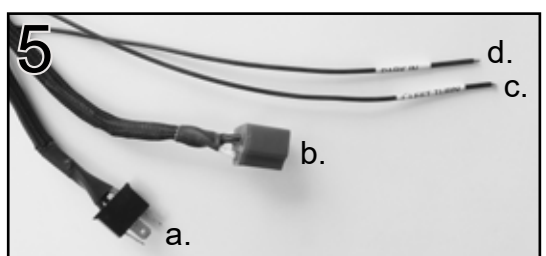
2a. Car +12V (VCC +12V) **2b.** Car ground (GND)
2c. Light module **2d.** Car +12V



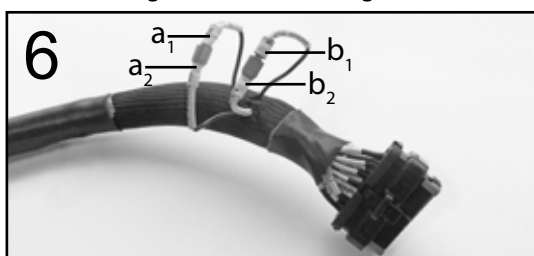
Plow connector



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



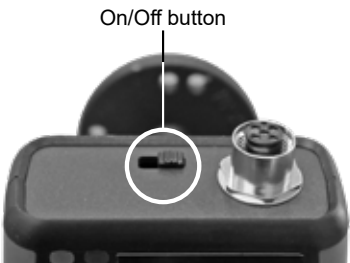
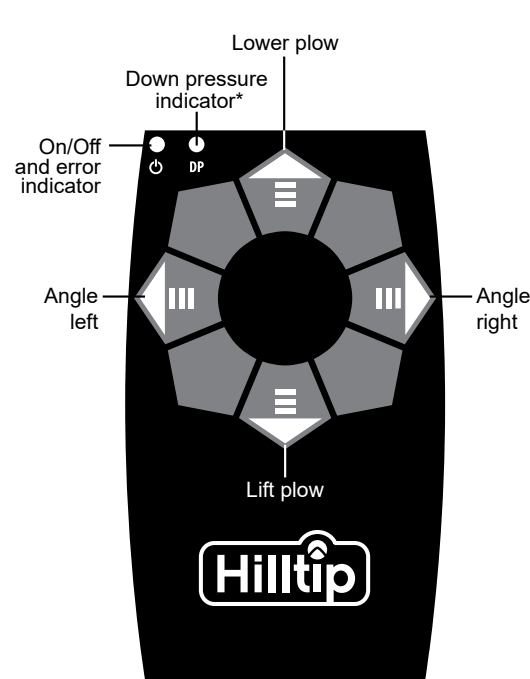
6a₁ = 6a₂ = turn LEFT **6b₁ = 6b₂** = turn RIGHT
Switch these cables if the turn lights are flashing on the opposite/wrong side

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.

Change software mode in joystick

It is possible to switch between different operation mode. To change mode:

1. Switch off joystick.
2. Hold joystick knob in one of following directions and switch joystick **on** at the same time:

Joystick position	Software option	Comments
RIGHT	V-plow produced from 2017 with valve block H25142	
LEFT	Straight plow	
FORWARD	V-plow produced before 2017 with valve block H23270	
FORWARD + RIGHT	V-plow, move wings independently	Supported in version 10
BACKWARDS + BUTTON	V-plow, Hilltip button logic	Supported in version 18
RIGHT + BUTTON	V-plow, independent wing with button	Supported in version 23

3. Hold for approx. 6 seconds, until the orange DP led lights up.

NOTE! To select the “Hydraulic accumulator” function, you must hold the joystick for another 3 seconds after the DP light starts to light up until the DP light starts flashing rapidly. The hydraulic accumulator function is available in version 18 and onwards.

4. Release joystick.
5. Now joystick is programmed and ready to use.

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

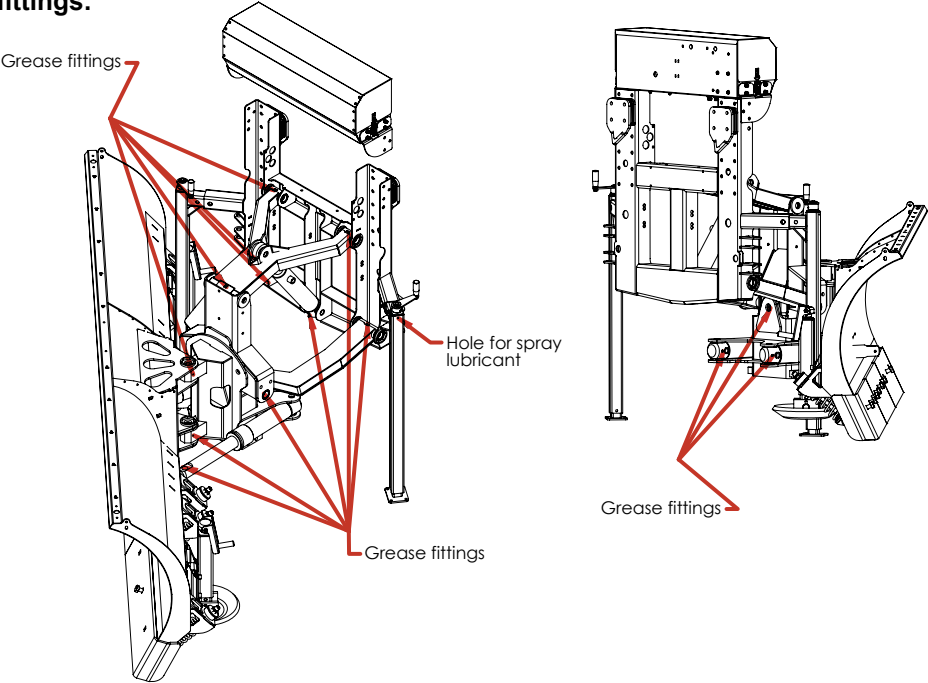
Maintenance

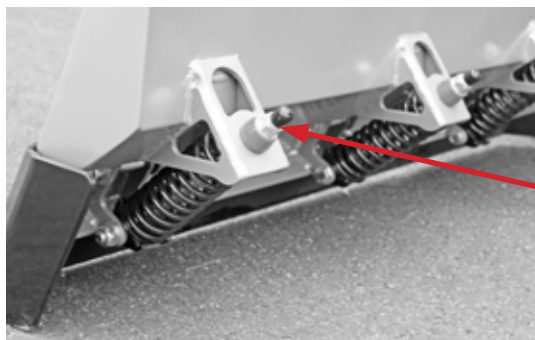
Follow this checklist to keep your snowplow in good condition and to be able to maintain full warranty for possible damages.

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:



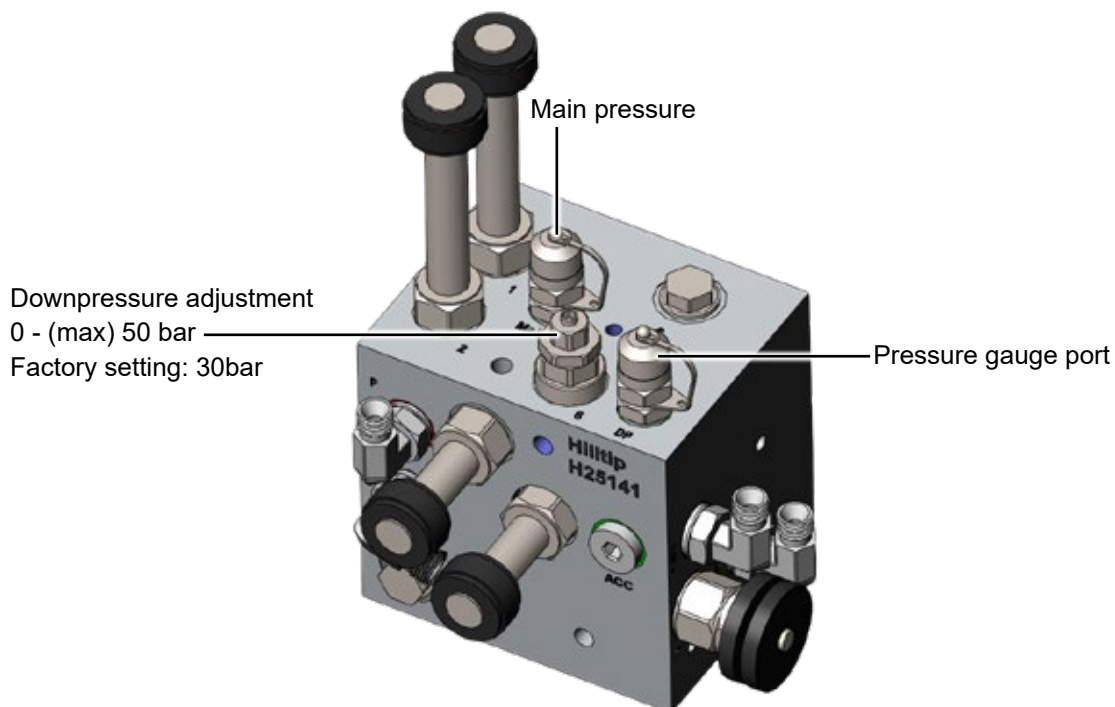


Adjust cutting edge attack angle

Valve electrical functions

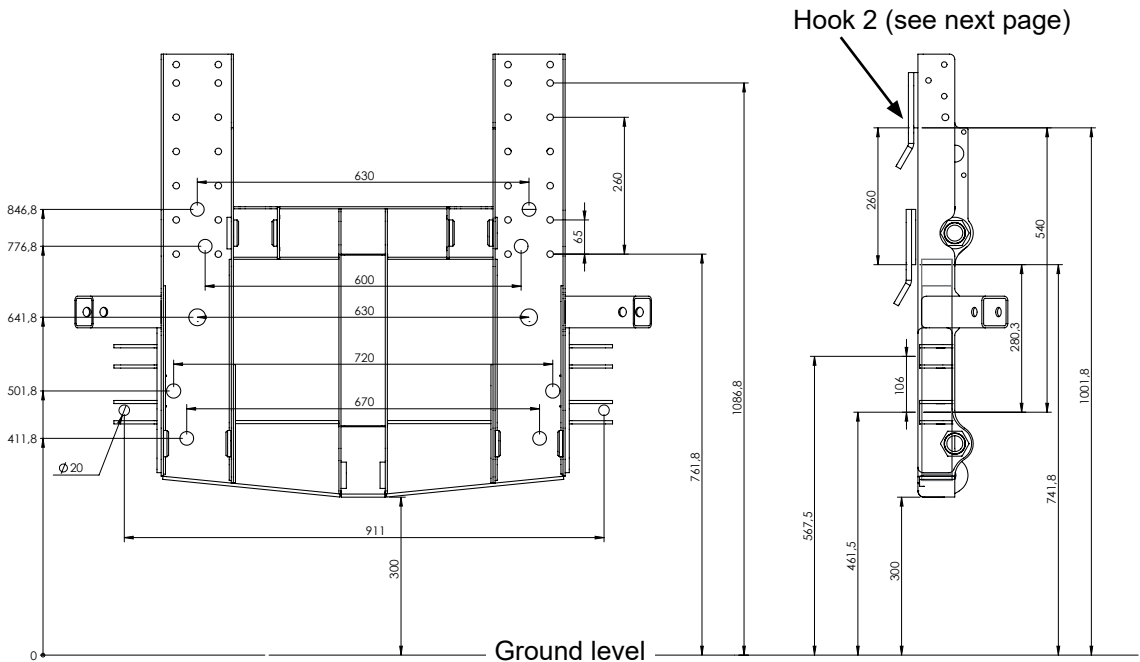
Blade movement	Angle right	Angle left	Down pressure	Raise	Lower	Idle	Float
MOTOR			*				
#1a							
#1b							
#2a							
#2b			*				
#3							
#4							

1* = Goes low after 30 sec.

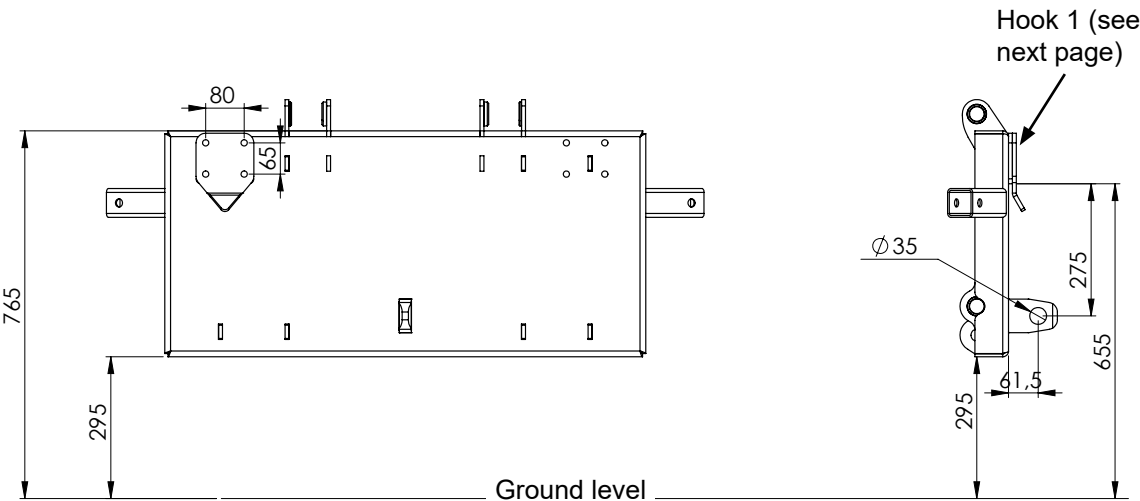


DIN plate dimensions and mounting height

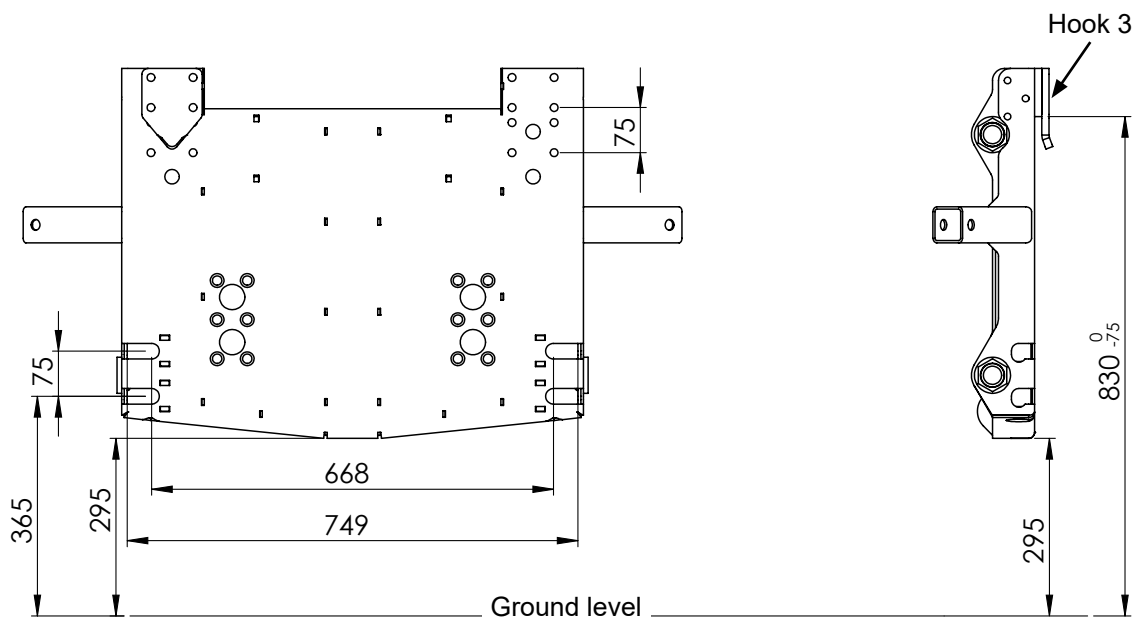
F1 dimensions (mm), standard



F2 dimensions (mm), TVH mini

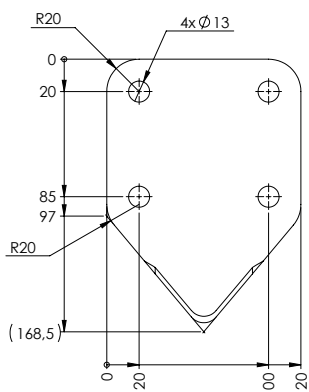


F3 dimensions (mm), VSS-B

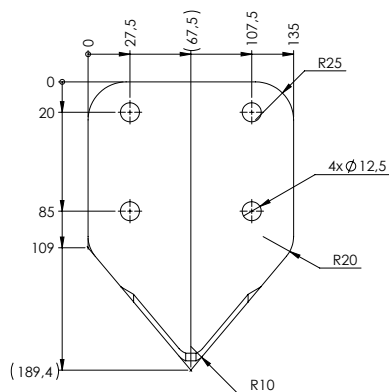


Hook dimensions (mm)

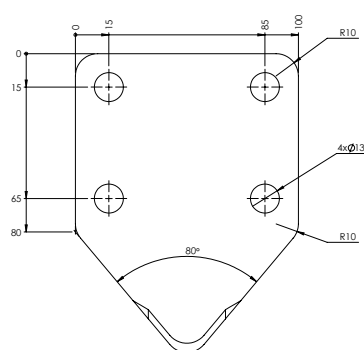
Hook 1



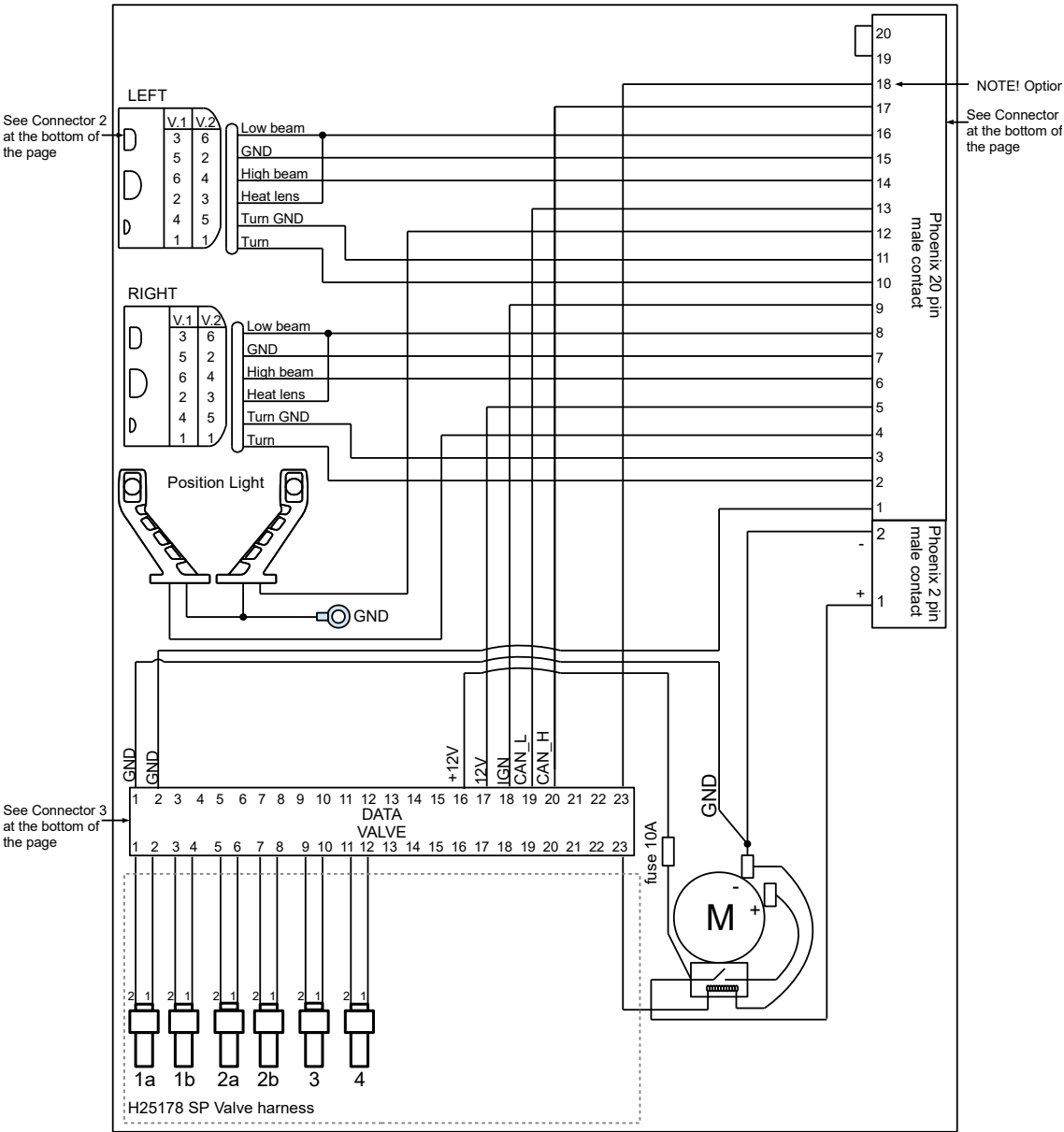
Hook 2



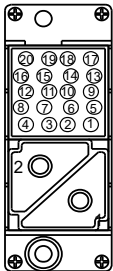
Hook 3



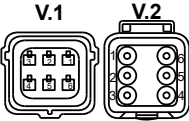
Plow side electrical schematics with lights - H24191



Connector 1:
Phoenix 20-pin plow
side connector

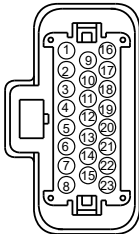


Connector 2:
Plow light
connector

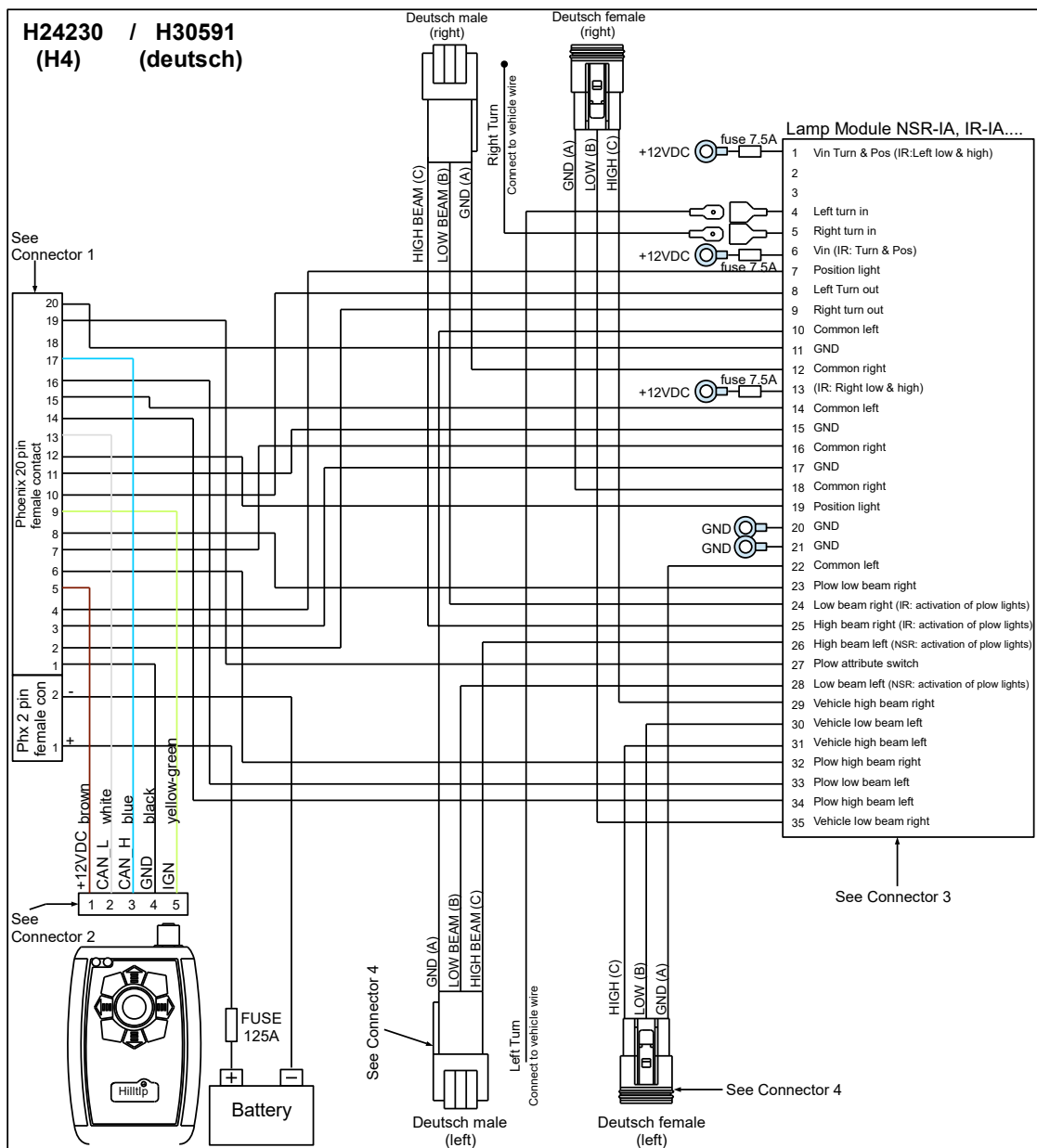


V.1	V.2	
1	1	Turn
5	2	GND
2	3	Heat lens
6	4	High beam
4	5	GND (turn)
3	6	Low beam

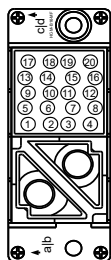
Connector 3:
23-pin
connector



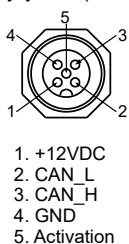
Vehicle side electrical schematics with lights - H24230



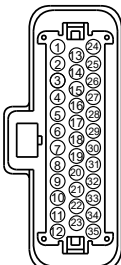
Connector 1:
Phoenix 20-pin vehicle side connector



Connector 2:
Connector to joystick (male)



Connector 3:
35-pin main connector

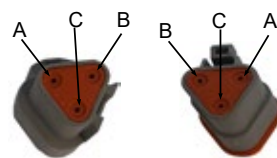
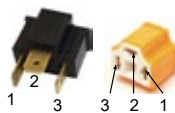


Connector 4:

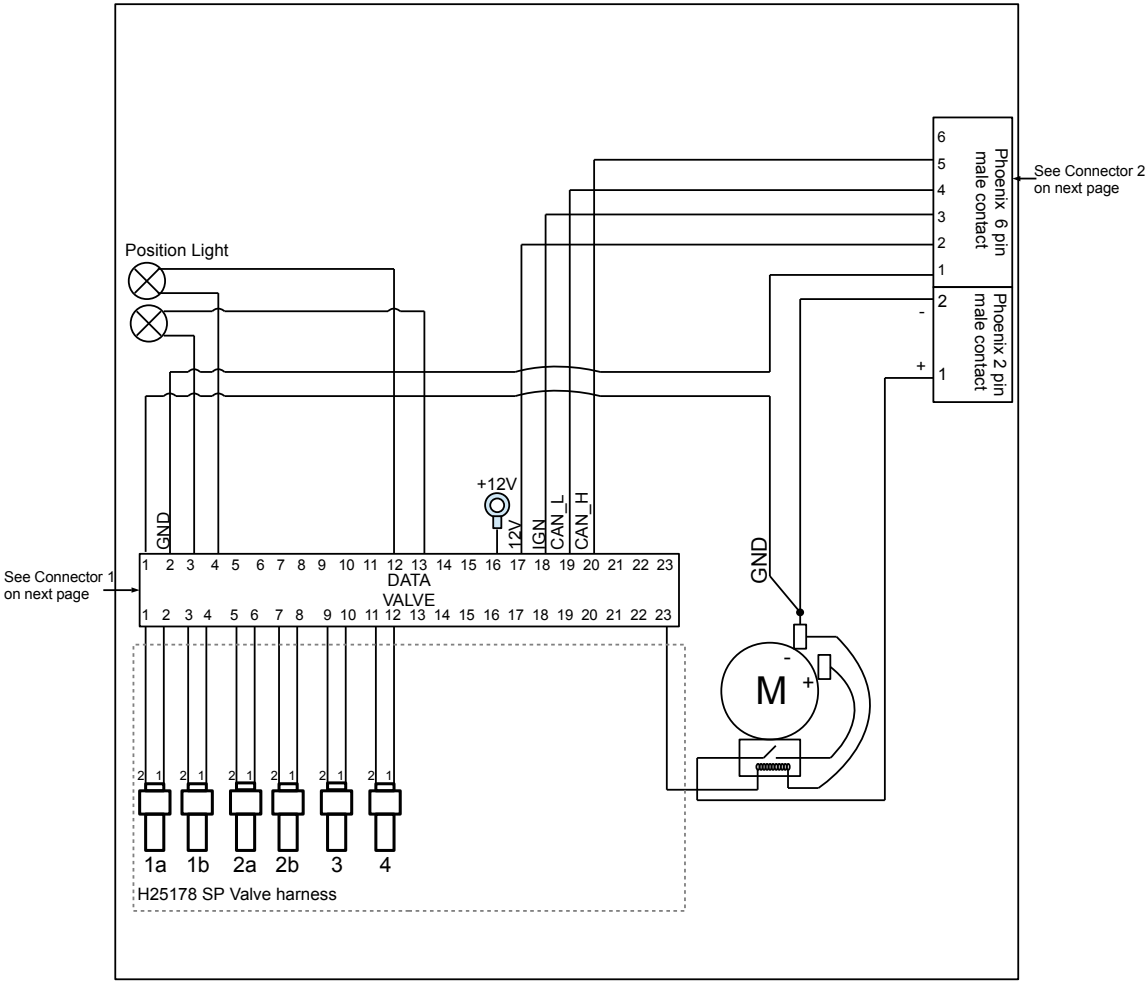
H4 connector

or

Deutsch connector



Plow side electrical schematics - H25925



Phoenix 6 pin female contact

6 blue

5 white

4 yellow-green

3 brown

2 black

1

Phx 2 pin female con

2 -

1 +

+12VDC

CAN_L

CAN_H

GND

IGN

See Connector 3 →

1 2 3 4 5

HiTiTLP

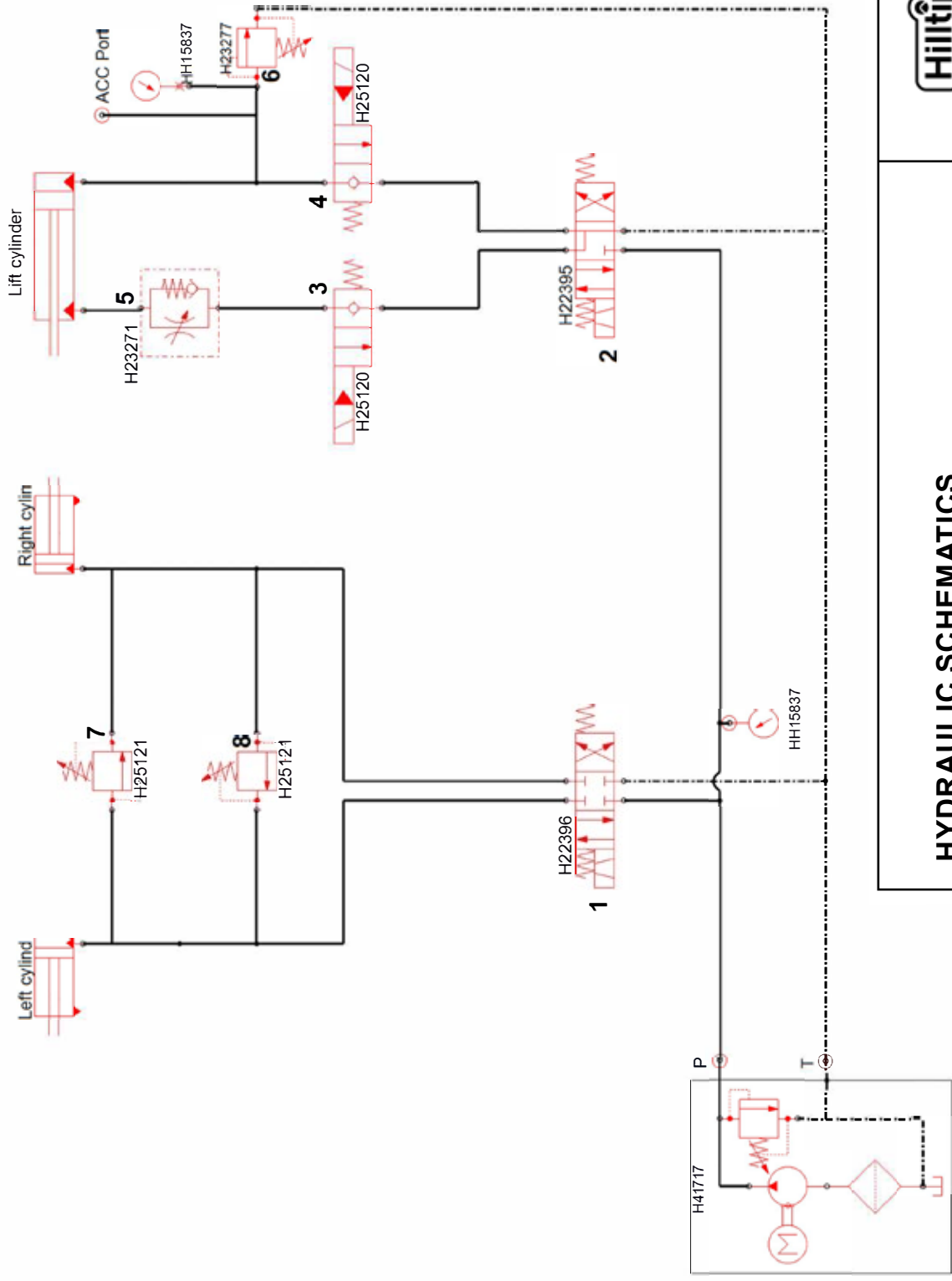
FUSE 125A

Battery

A diagram of a 23-pin D-sub connector. The pins are numbered 1 through 23. Pins 1 through 8 are on the left side, and pins 9 through 23 are on the right side. The connector has a D-shaped shield and a latch on the left.

Technical drawing of the front view of a rectangular plate. The plate has a central rectangular area with a diagonal line. There are two circular holes labeled 1 and 2. There are six circular holes labeled 1 through 6 arranged in two rows of three. There are four circular holes labeled 1 through 4 arranged in a 2x2 grid. There are four circular holes labeled 1 through 4 arranged in a 2x2 grid. There are four circular holes labeled 1 through 4 arranged in a 2x2 grid.

1. +12VDC
2. CAN_L
3. CAN_H
4. GND
5. Activation



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 alteration 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 & 3400-SHL

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
- ECE R10

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 March 1st, 2025

Signature:

Printed Name: Tom Mäenpää

Title: CEO

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

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info@hilltip.com