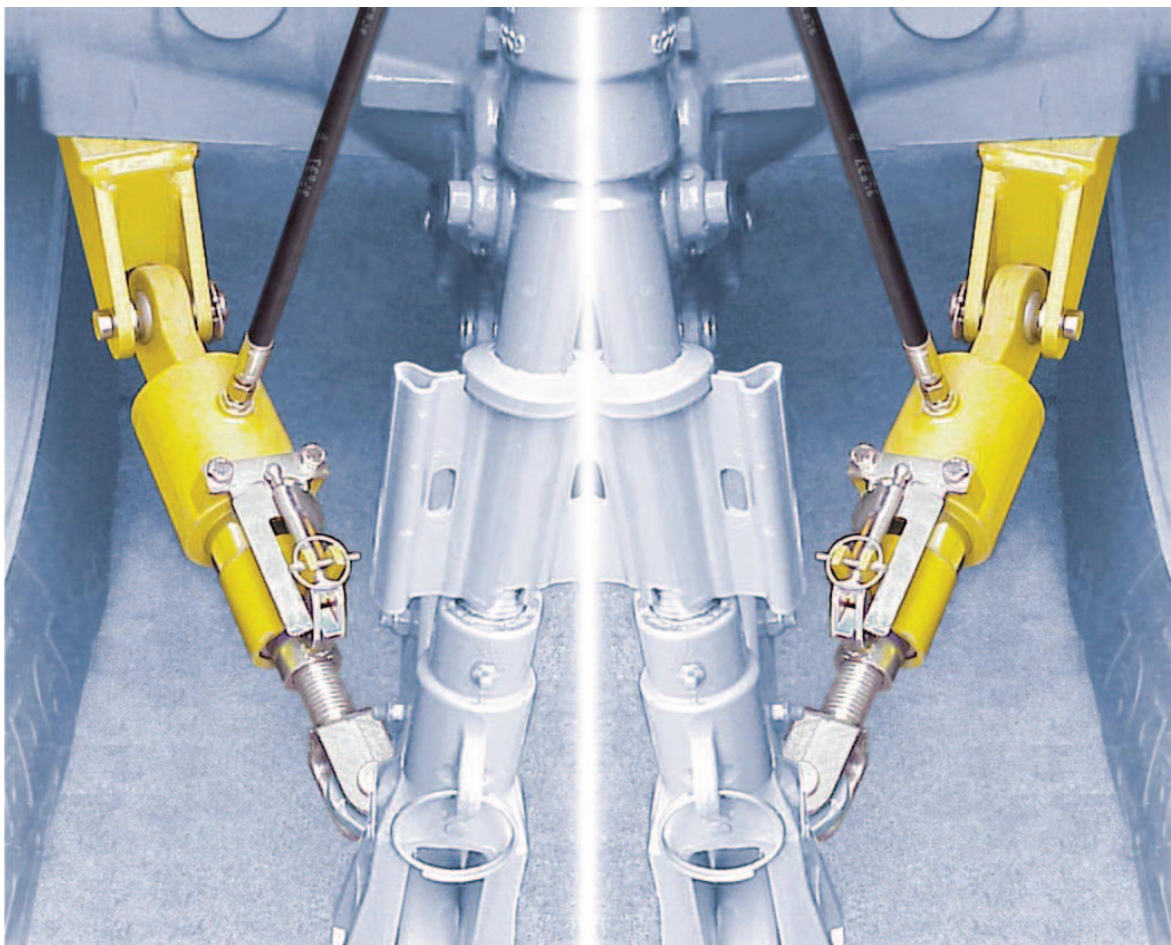
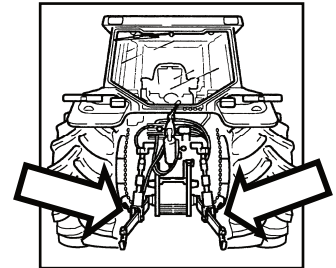


**Anbau- und Bedienungsanleitung
TAS 190/III D
Hydraulische gesteuerte
Seitenstabilisierung HGST**



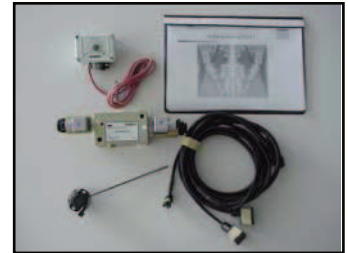
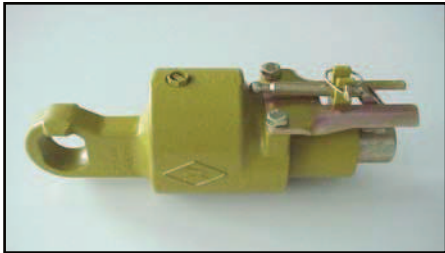
GKN Walterscheid GmbH
Hauptstraße 150
D-53797 Lohmar
Telefon +49 (0) 2246-12-0
www.gkn-walterscheid.de
info@gkn-walterscheid.de

202730

05/2017

Lieferumfang

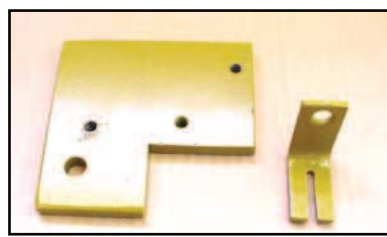
Walterscheid liefert den Basisanbausatz:



Walterscheid liefert bei Bedarf:



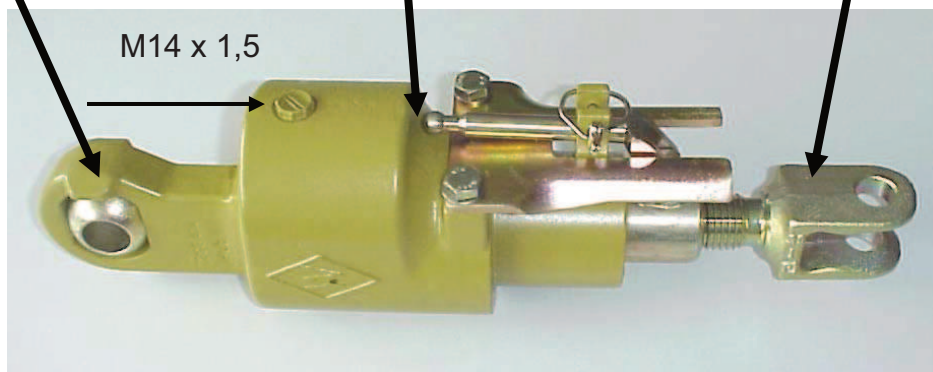
Die Werkstatt liefert:



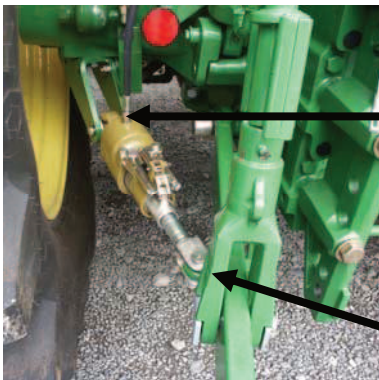
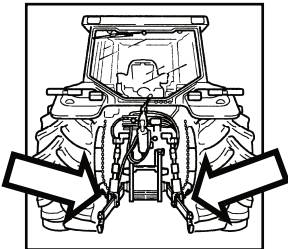
Hinweis: Im folgenden wird die Montage anhand von Beispielen erläutert. Mögliche Abweichungen zu den Darstellungen sind zu berücksichtigen.

05/2017

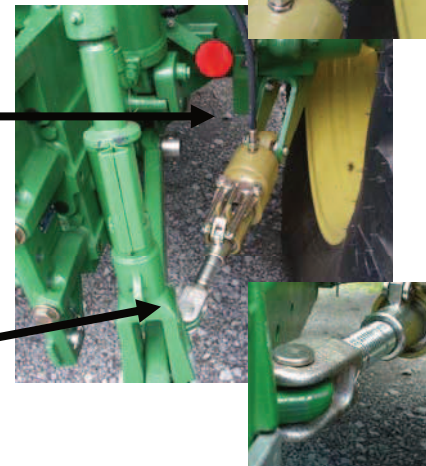
Montage Stabilisator:



Anbau Stabilisator:



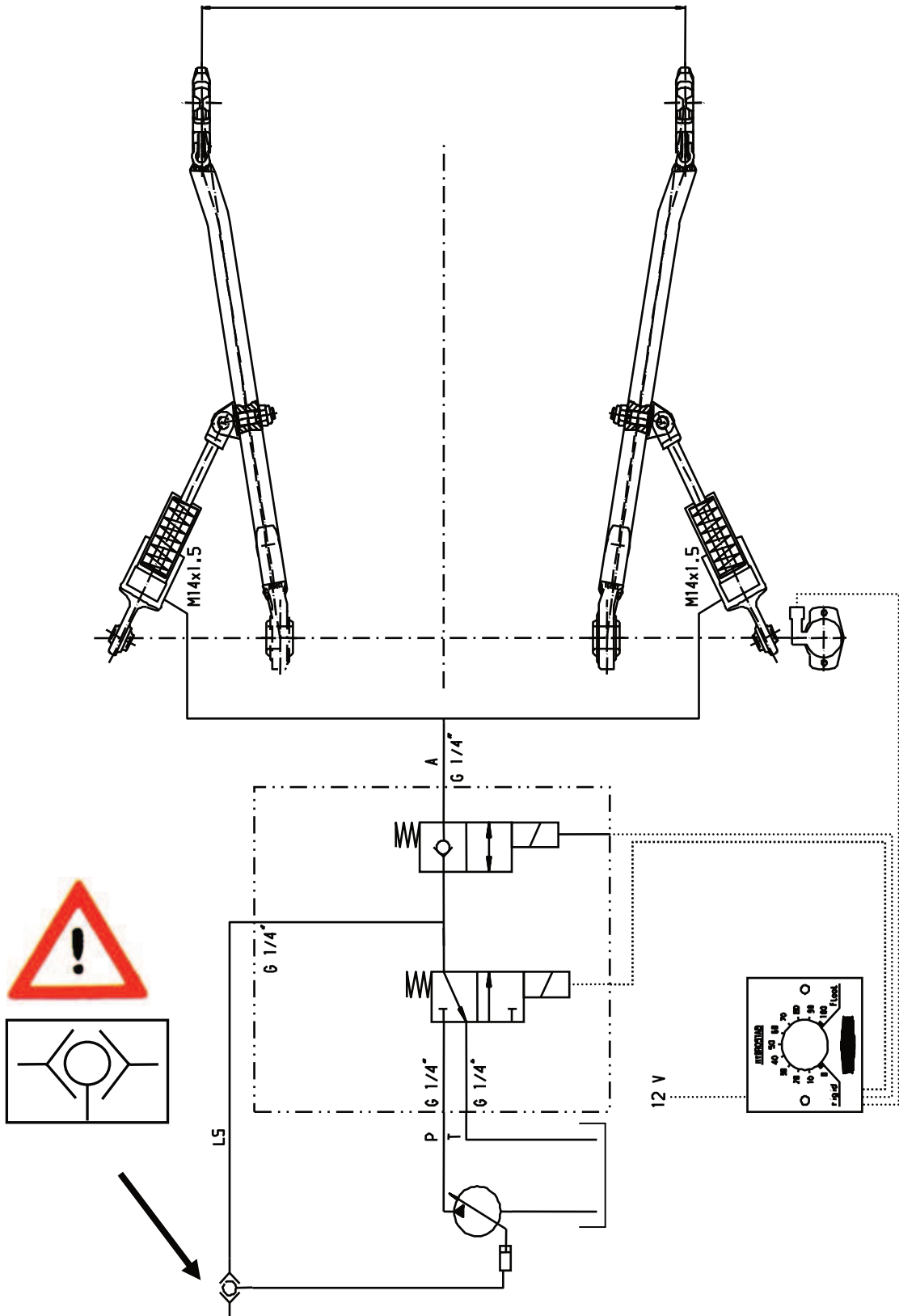
Scheiben nach Bedarf



Auf Freiraum am Lagerbock achten!

05/2017

Hydraulik- und Elektroschaltplan



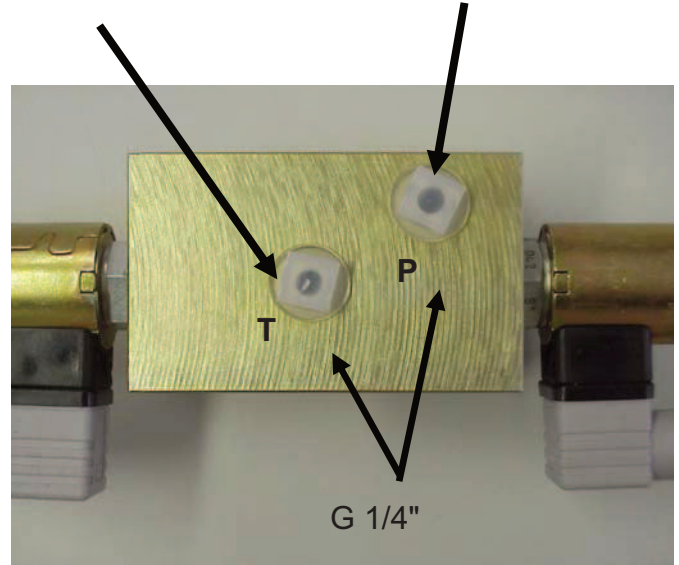
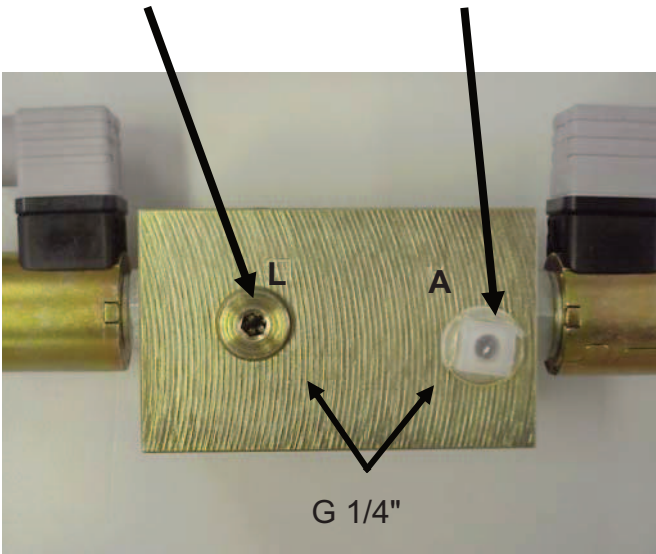
Anbau Hydraulikventil

LS = Load Sensing

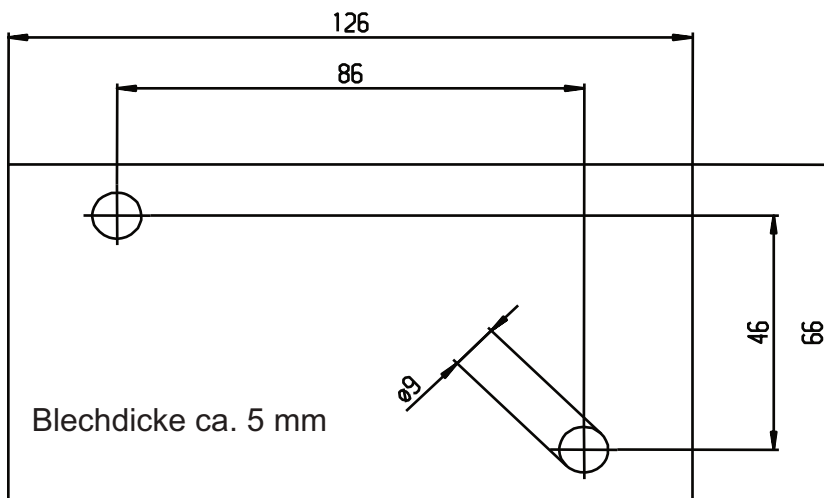
A = Stabilisatoren

T = Rücklauf (Tank)

P = Pumpe

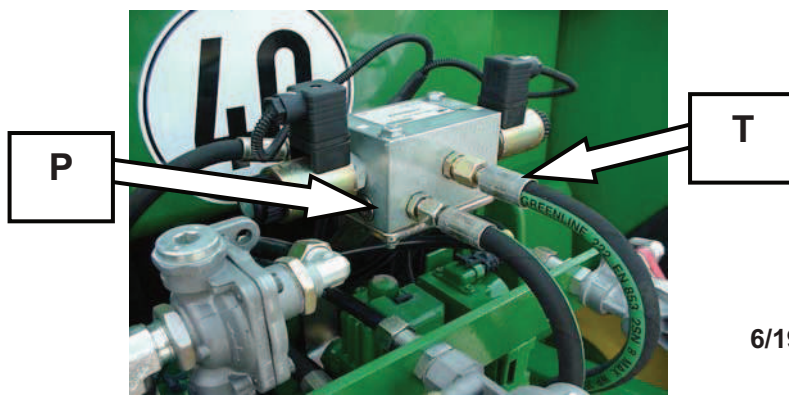
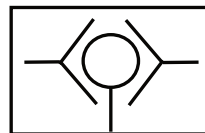
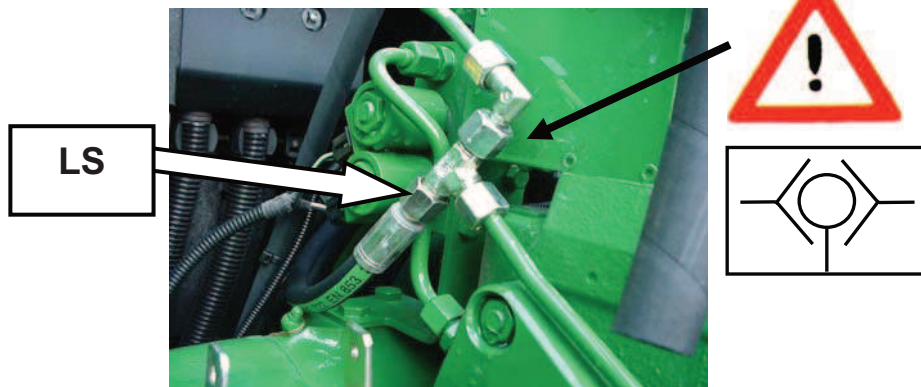
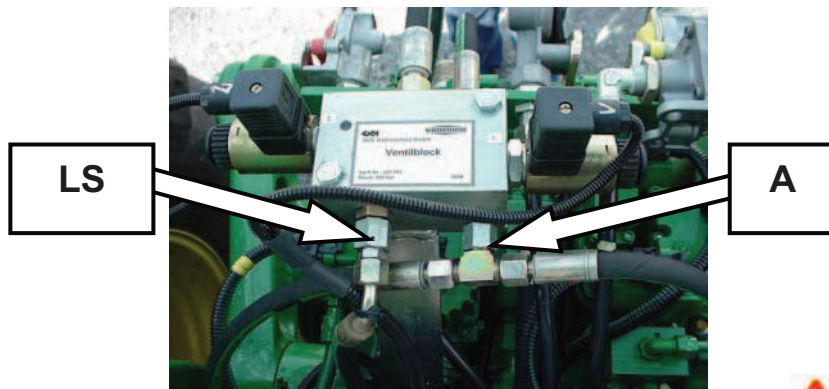
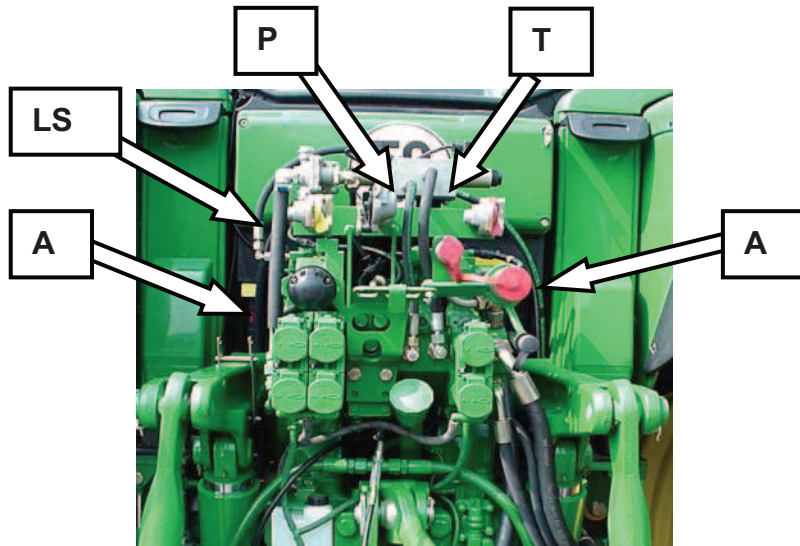
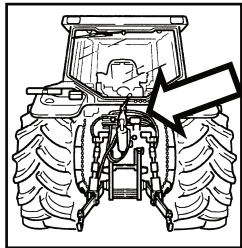


Maße Halter für Hydraulikventil



z.B. Flachstahl 70 x 5 mm

Anschluß Hydraulikventil



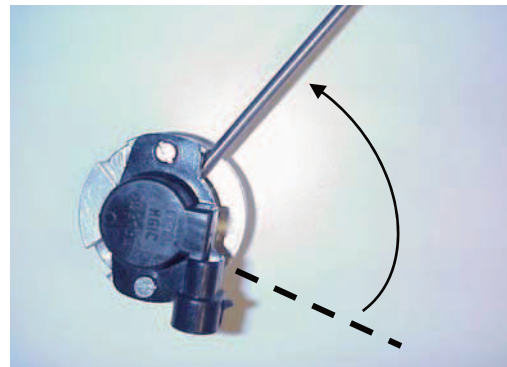
05/2017

Montage Winkelsensor

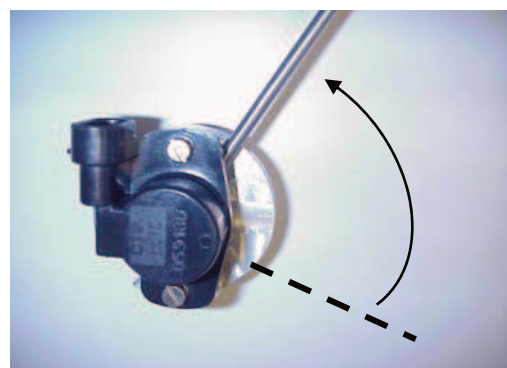


Hinweis: Stange muss durch Federkraft nach oben zeigen!

Vorzugsweise:

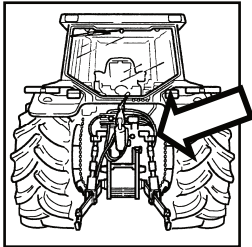


Alternativ:

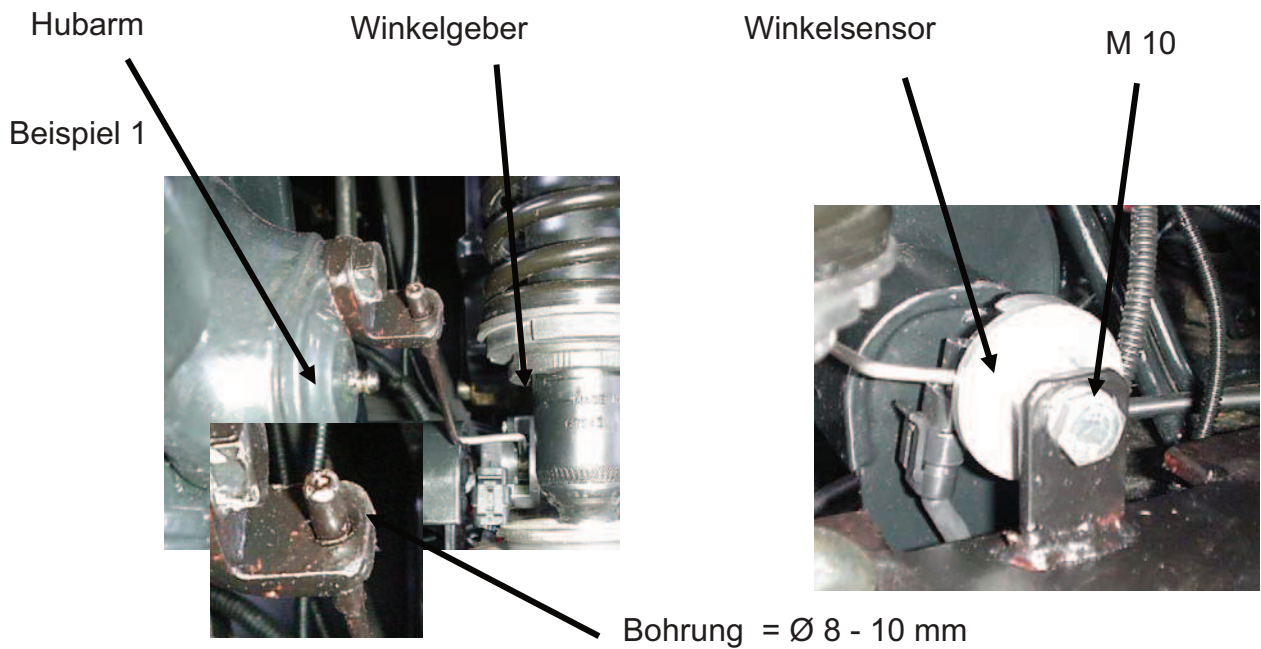


05/2017

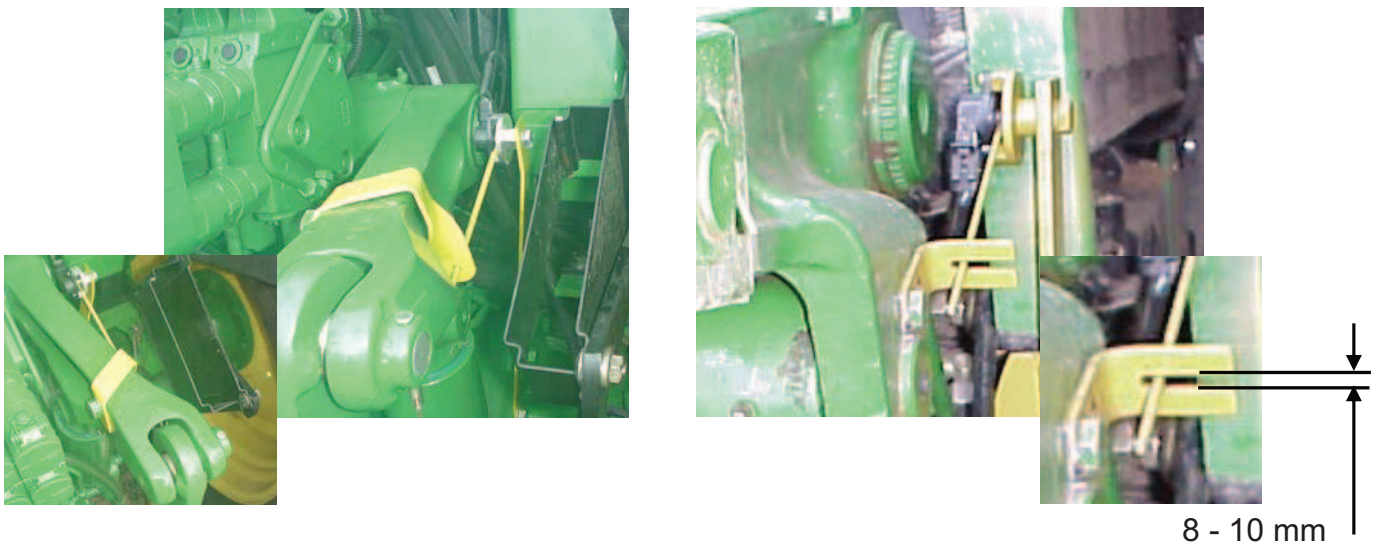
Anbau Winkelsensor



Hinweis: Drehachse Hubarm = Drehachse Winkelsensor

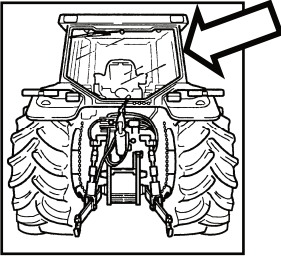


Weitere Beispiele:



05/2017

Anbau Elektronische Steuereinheit



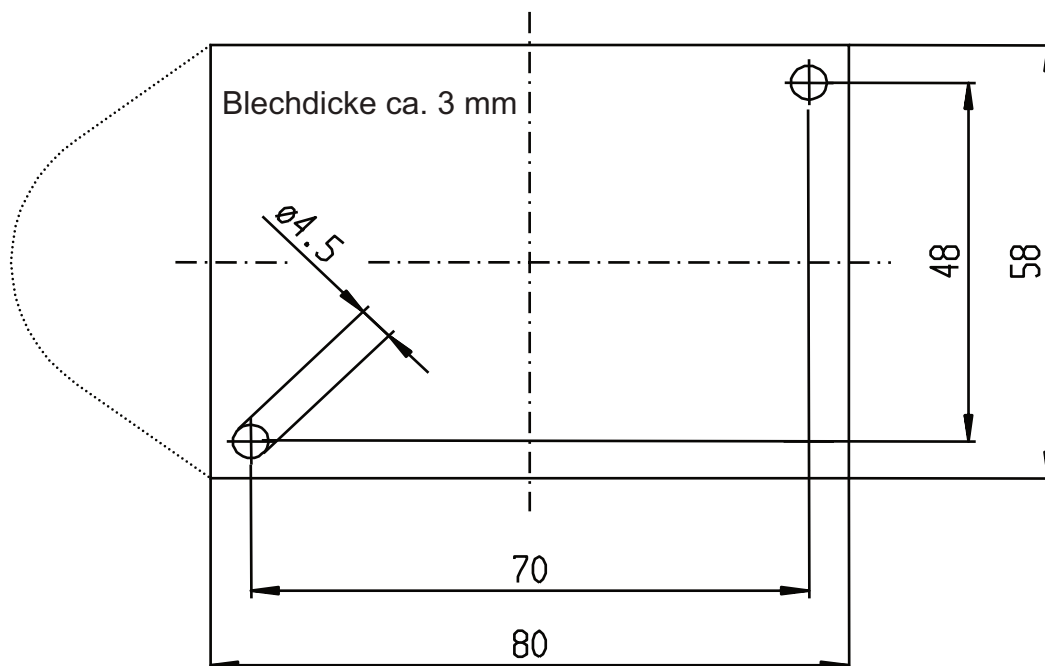
Montage an Kabinenwand



Montage auf Bedienkonsole



Maße Halter für Steuereinheit



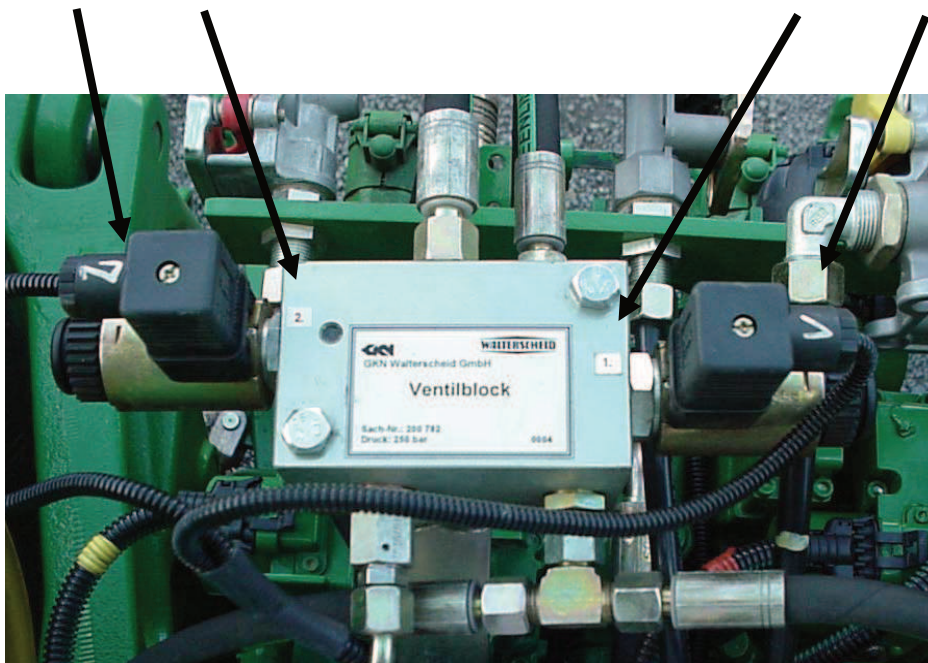
Elektroanschluß Hydraulikventil



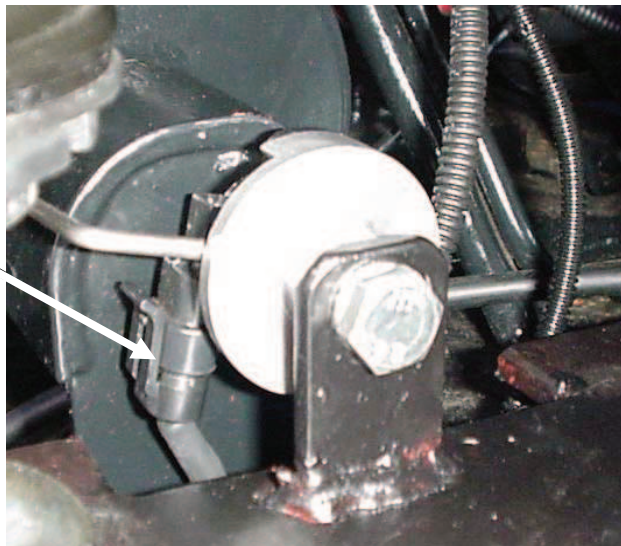
Nr. 2 => Nr. 2



Nr. 1 => Nr. 1

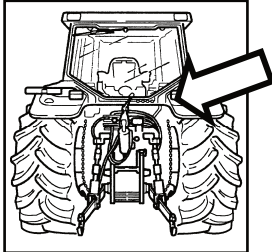


Elektroanschluß Winkelsensor



05/2017

Verlegung Kabelbaum



Kabeldurchgang an Kabine

Hinweis: Bei Verlegung der Hydraulik- und Elektroleitungen auf ausreichend Freiraum achten. Vermeiden von Scheuerstellen.



Elektroanschluß Steuereinheit

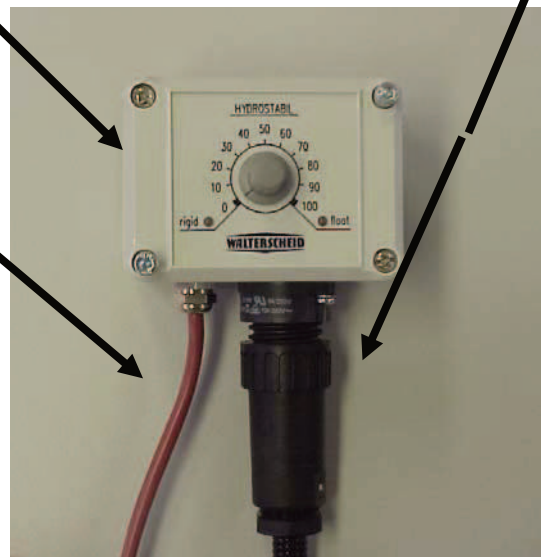
Stromversorgung

Steuereinheit

Steuerkabel

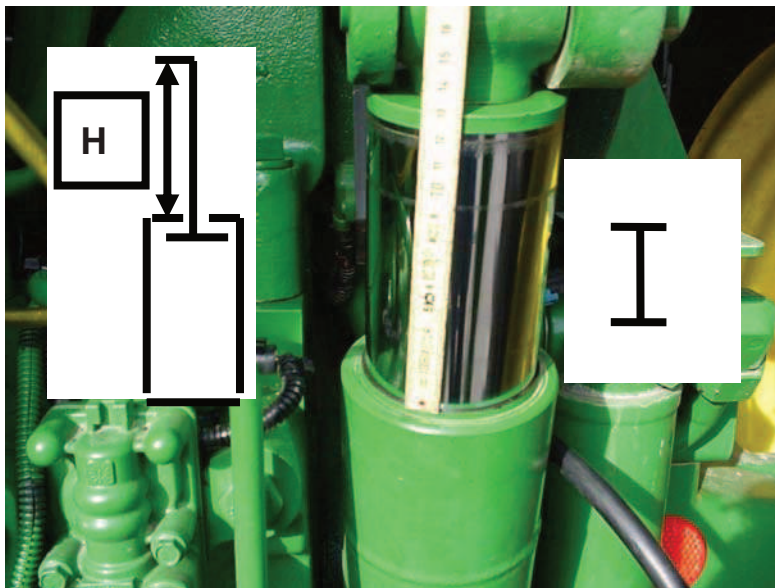


12 Volt
blau = +
braun = -



Einstellung Winkelsensor

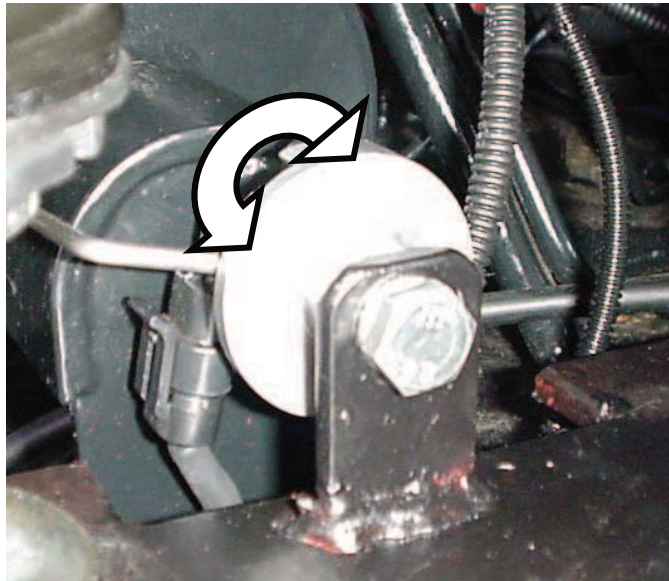
1. Hubzylinder auf halbe Hubhöhe einstellen



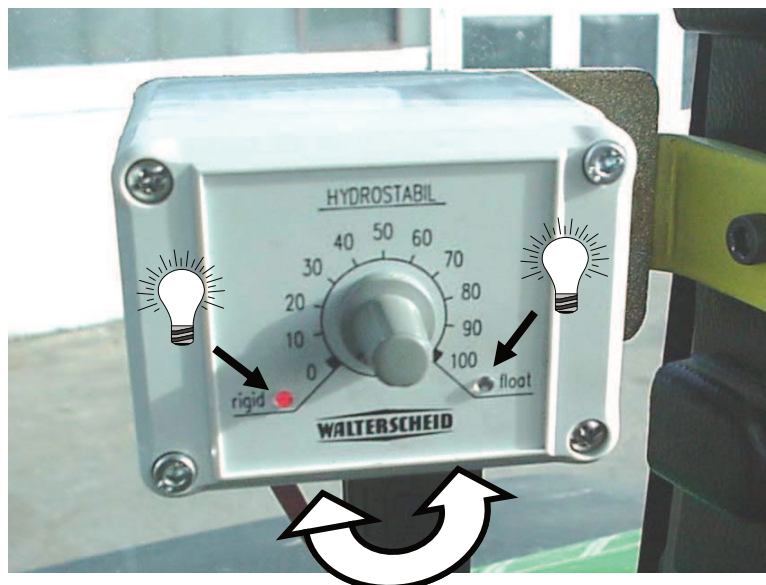
2. Schalter auf 50 einstellen



3. 6-kt-Schraube lösen
Winkelsensor drehen



4. Bis Kontrollleuchten im Wechsel aufleuchten
6-kt-Schraube festziehen



5. Kontrolle Drehbereich

- Einstellung „0“ (rigid) = starr über den gesamten Hubbereich
- Einstellung „100“ (float) = schwimmend über den gesamten Hubbereich



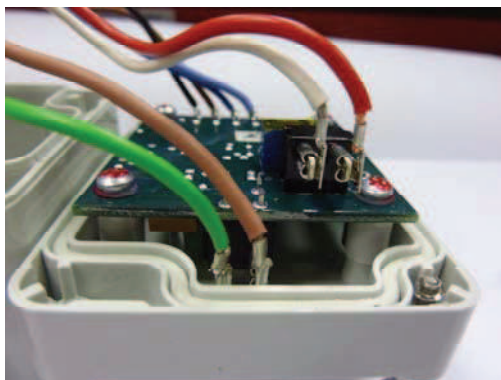
Ändern der Grundeinstellung

Standardmäßig wird der Winkelsensor rechts angebaut.

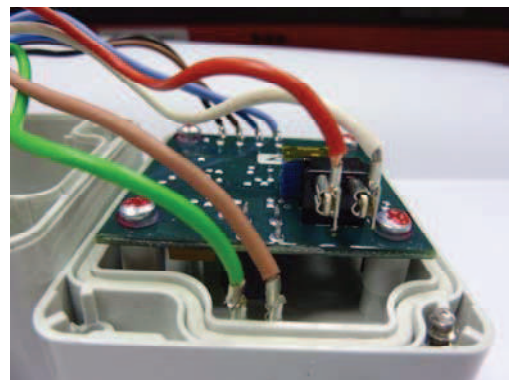


Sollte dies nicht möglich sein bzw. die Funktion „Starr“ / „Schwimm“ ist vertauscht, ist folgendes zu tun:

1. Öffnen der Elektroniksteuerung
2. Tausch des „roten“ und „gelben“ Drahtes
3. Verschließen der Elektroniksteuerung



GRÜN / BRAUN / WEISS /
ROT

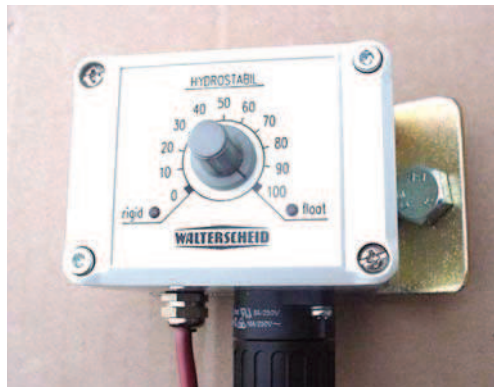


GRÜN / BRAUN / ROT /
WEISS

05/2017

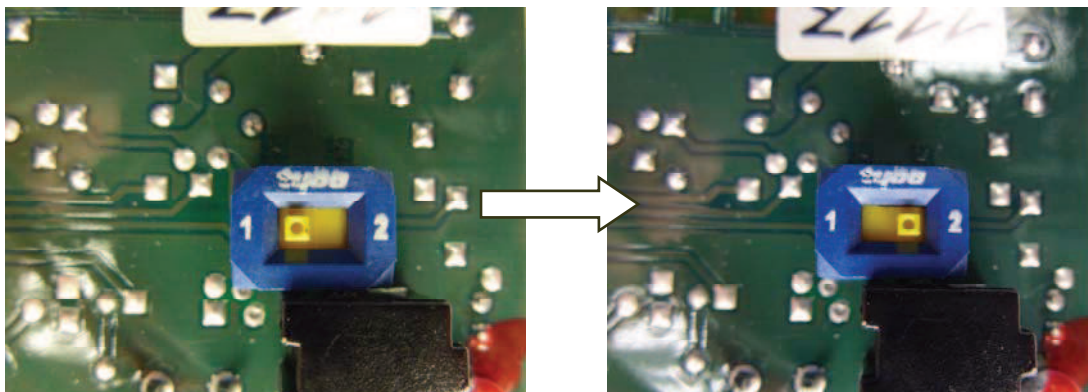
Ändern der Grundeinstellung

Standardmäßig reicht die Auflösung der Elektroniksteuerung aus (Drehbereich von 0 – 100).

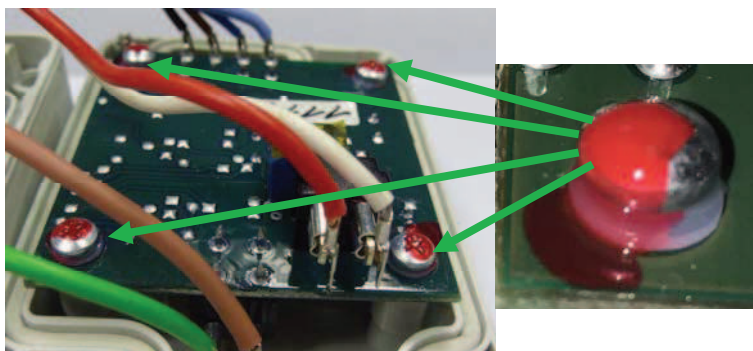


Sollte der Drehbereich zu klein sein (ca. 30 – 70), kann die Auflösung wie folgt vergrößert werden:

1. Öffnen der Elektroniksteuerung
2. Blauen Schalter von „1“ auf „2“ umstellen
3. Verschließen der Elektroniksteuerung



Hinweis:



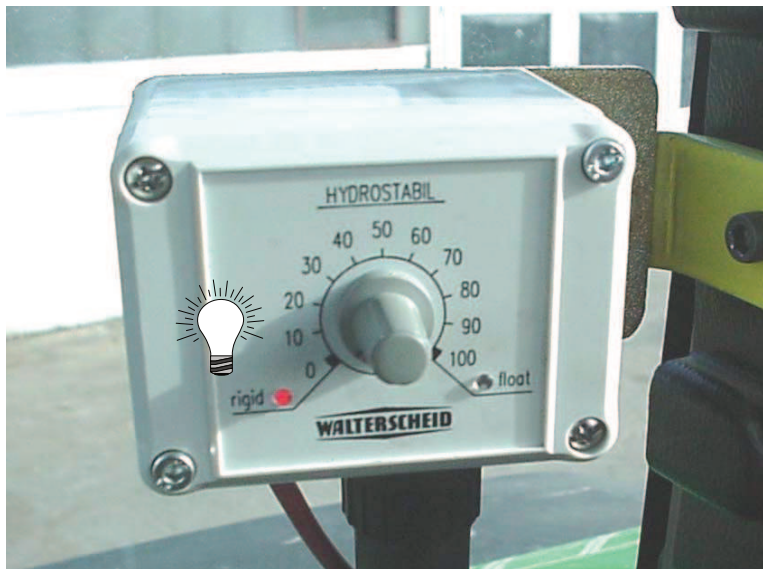
Schrauben dürfen nicht gelöst werden.

Bei Beschädigung des Siegel-lackes erlischt jeglicher Garantianspruch.

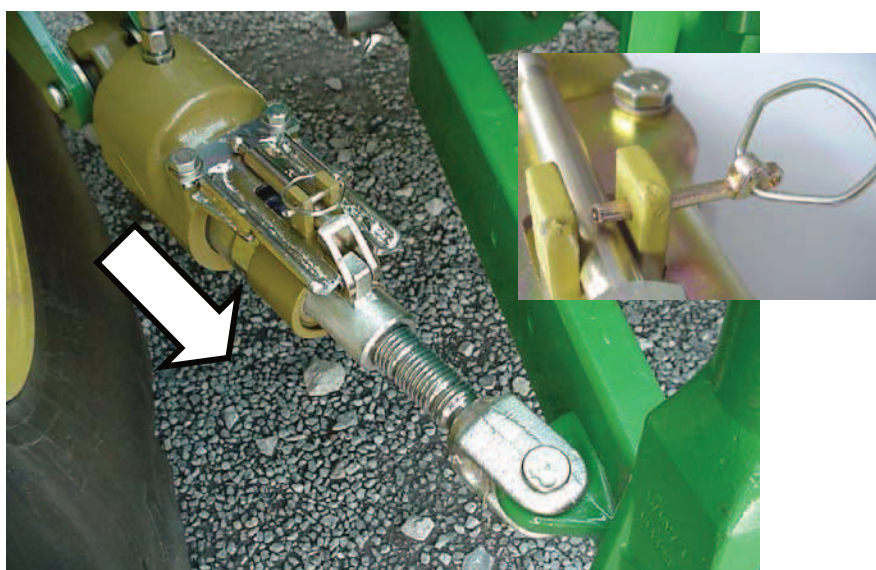
05/2017

Einstellung Spreizmaß

1. System auf „rigid“ stellen



2. Stabilisatoren sind ausgefahren, Klappstecker demontieren

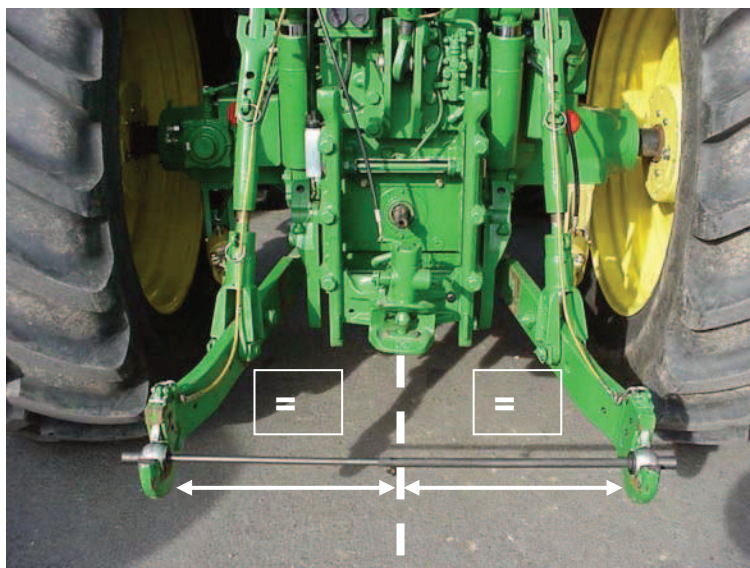


05/2017

3. Spindel verlängern / verkürzen, dabei Mindestüberdeckung beachten.



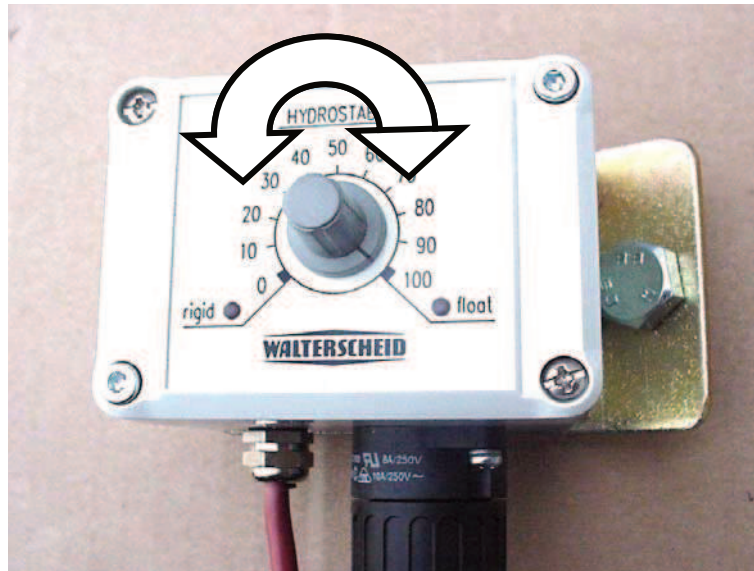
4. Spreizmaß symmetrisch einstellen, danach Klapstecker montieren.



05/2017

Schalterposition „starr“ oder „schwimm“

Mit Drehschalter Hubhöhe für „starr“ (rigid) / „schwimm“ (float) wählen



Für Transportfahrt immer „starr“ – Funktion einstellen !



Sicherheitshinweise



Funktionsprüfung

Nach den Anbau- und Einstellvorgängen der HGST ist unbedingt eine Überprüfung der Funktionen des Fahrzeuges durchzuführen.



Heben und Senken des Krafthebers

Unter bestimmten Hubwerkseinstellungen findet eine Kraftüberlagerung der Kraftheber-Zugkraftregelung und der hydraulisch geregelten Stabilisierung HGST statt.

Dieser Effekt wird durch zu enge Spreizmaßeinstellung oder in Hanglage hervorgerufen.

Folge hiervon kann ein unbeabsichtigtes Absenken bzw. Anheben des Dreipunkt-Gestänges sein.

Um diese unkontrollierte Bewegungen des Dreipunkt-Gestänges auszuschließen, muß bei folgenden Situationen die Hubwerksregelung auf 100%-Lageregelung gestellt werden:

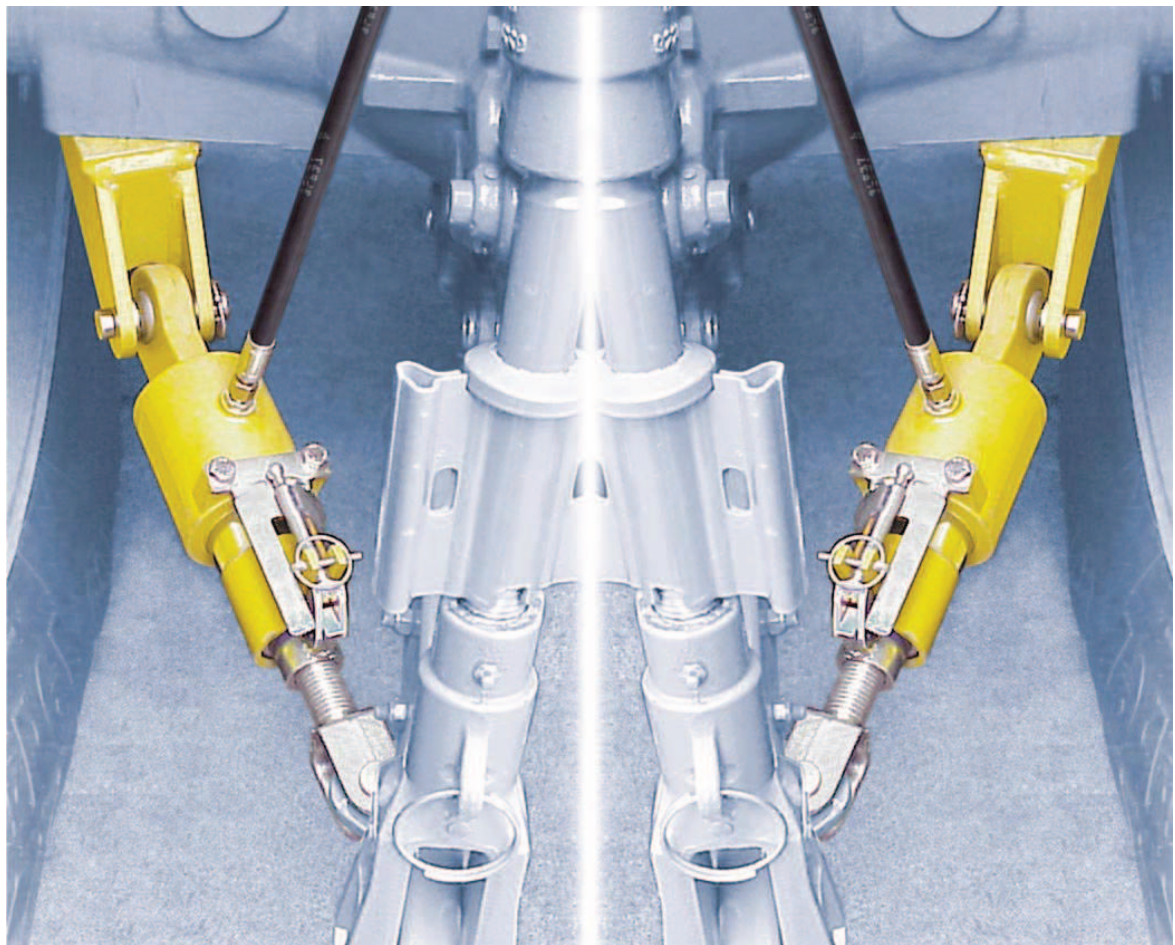
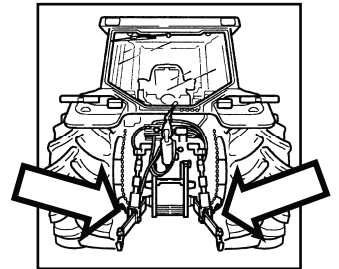
- Bedienung des Krafthebers im Stillstand
- Transportfahrten
- An- / Abkuppeln des Anbaugerätes
- Arbeiten am Anbaugerät
- Für alle Anbaugeräte, die keine Zugkraftregelung benötigen

Stabilisieren

Systembedingt schwenkt das Anbaugerät im Schaltpunkt der Verriegelung seitlich aus. Dieser Schwenkbereich ist freizuhalten.

05/2017

**Mounting and Operating Instruction
TAS 190/III GB
Hydraulically Controlled
Lower link stabilizer HGST**



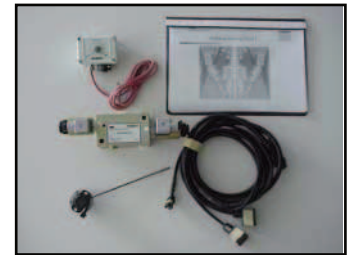
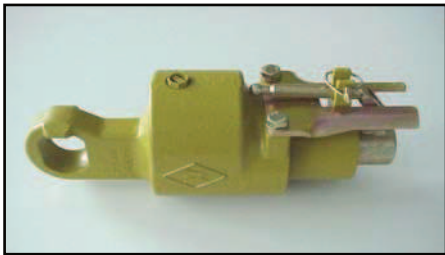
GKN Walterscheid GmbH
Hauptstraße 150
53797 Lohmar
Telefon +49 (0) 2246-12-0
Telefax +49 (0) 2246-12-3501
www.walterscheid.com
info@walterscheid.gknplc.com

202730

05/2017

Shipment

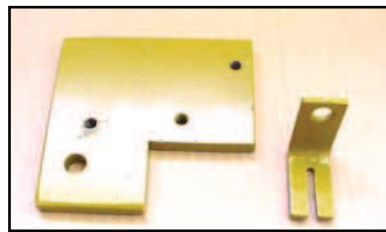
Walterscheid provides basic kit:



Walterscheid provides if required:



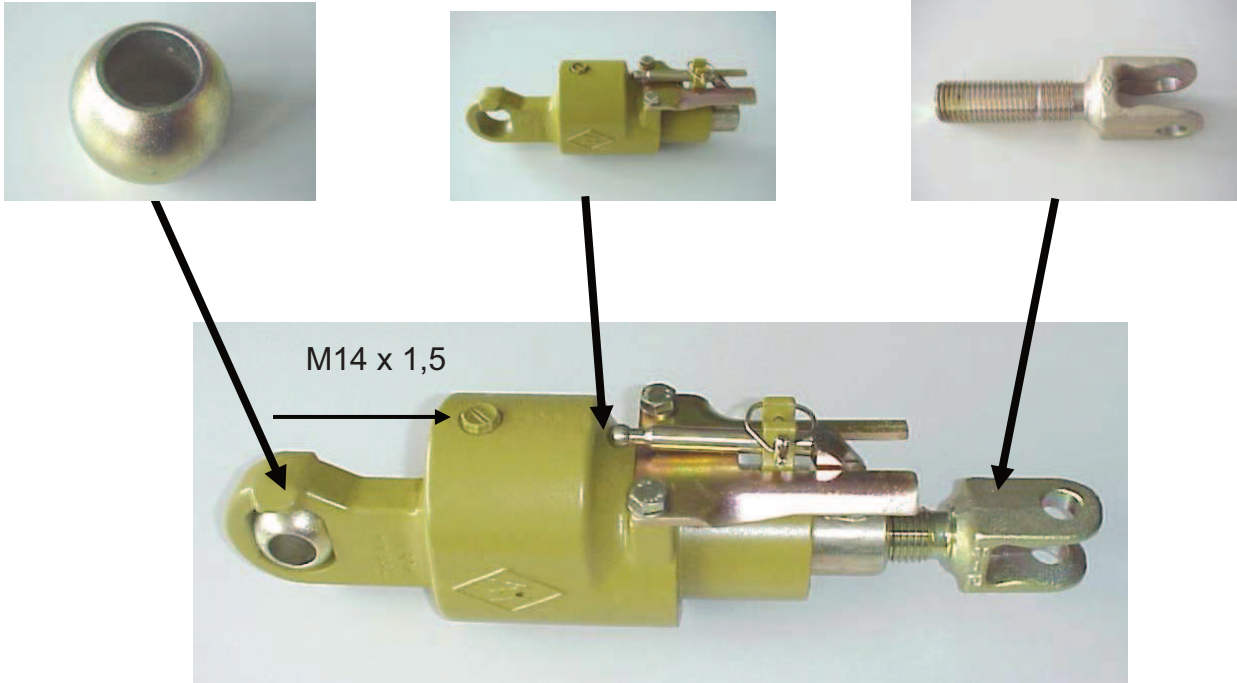
Workshop provides:



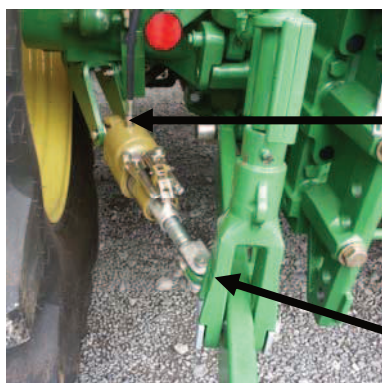
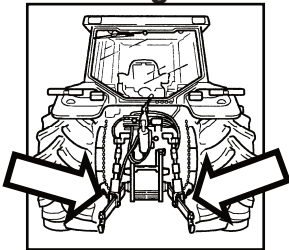
**Please note: assembly and mounting is explained trough examples.
Please consider deviations to the pictures**

05/2017

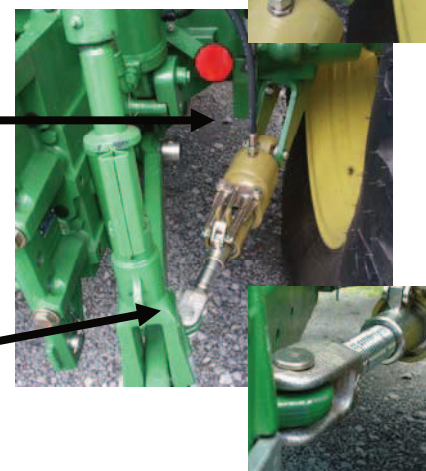
Assembly of stabilizer:



Mounting of stabilizer:



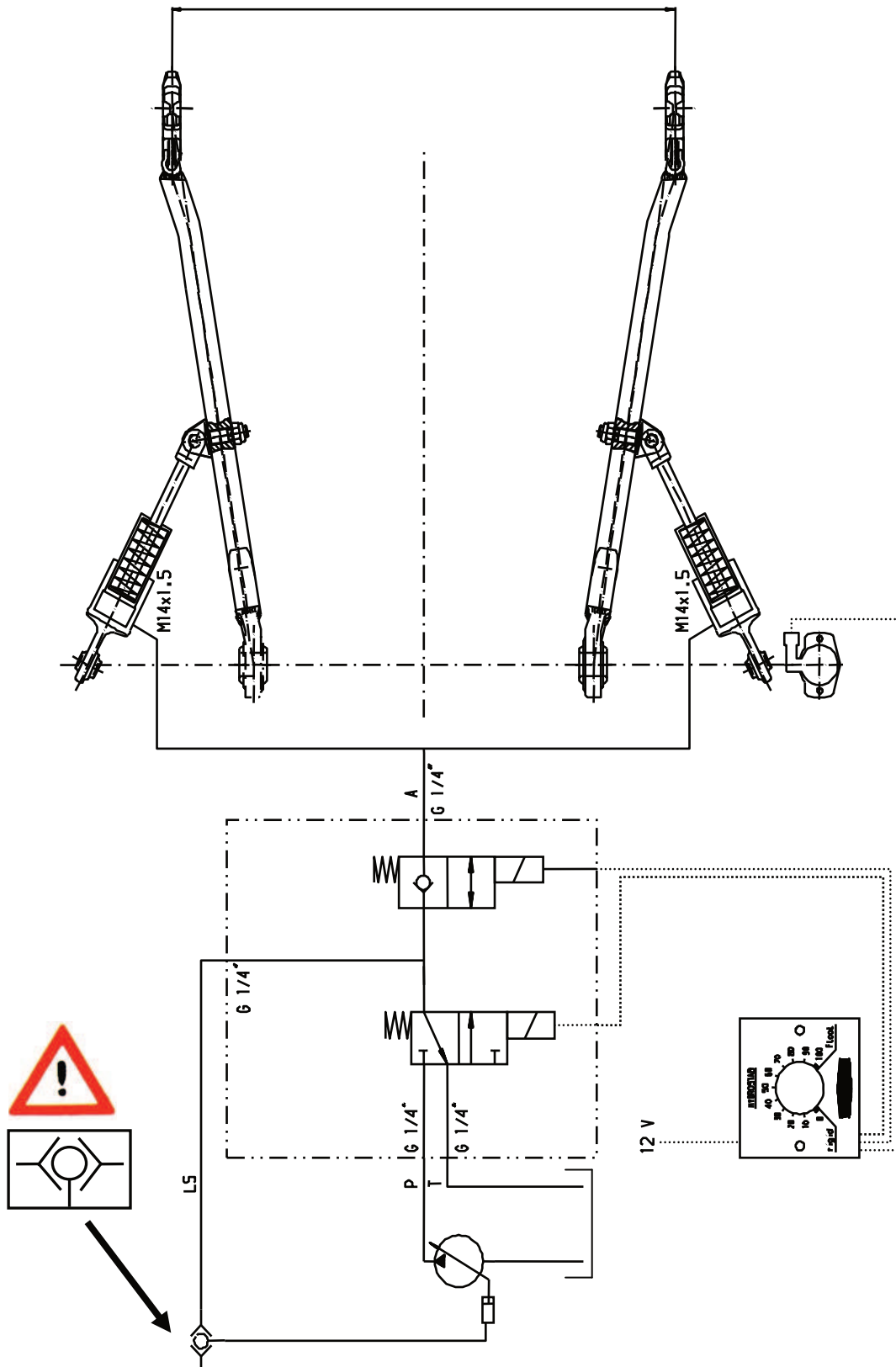
Washers as required:



Please consider clearance at supporting bracket!

05/2017

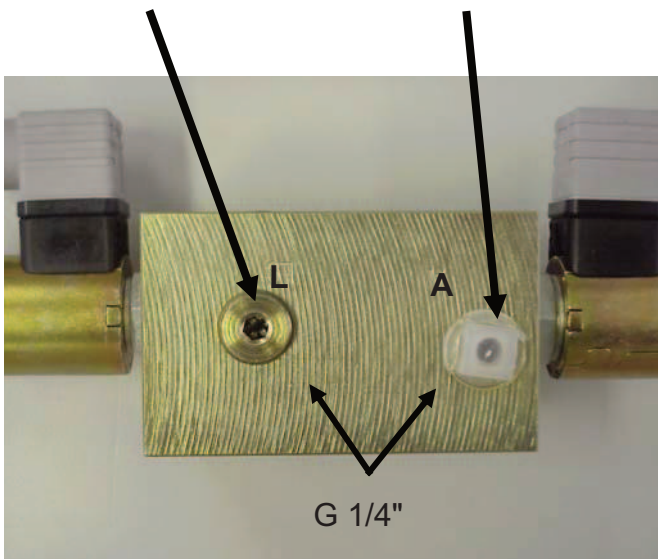
Hydraulic and electronic connection diagram



Mounting of hydraulic valve

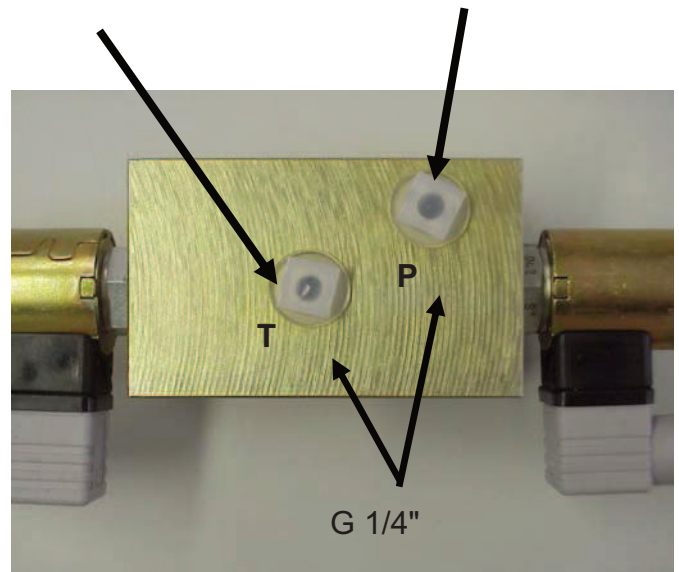
LS = Load Sensing

A = Stabilizer

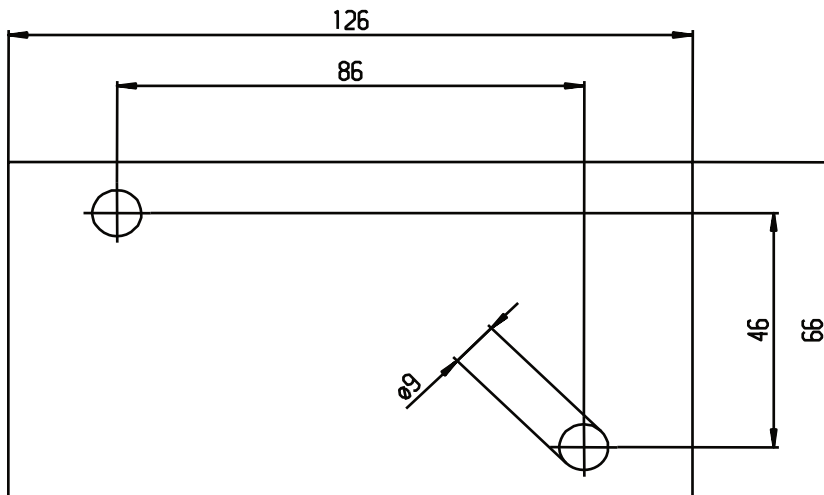


T = Tank

P = Pump



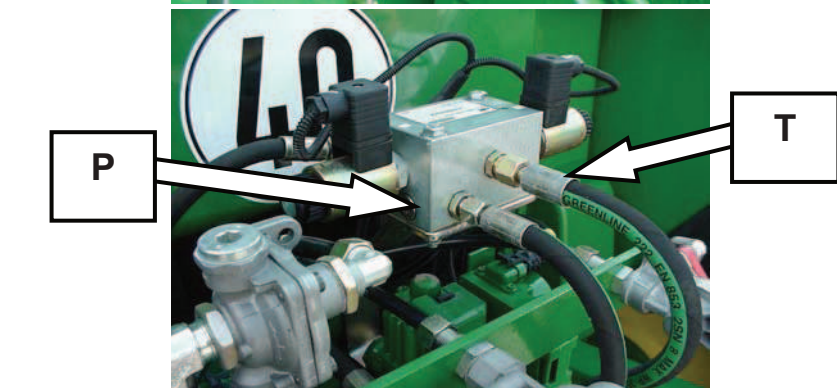
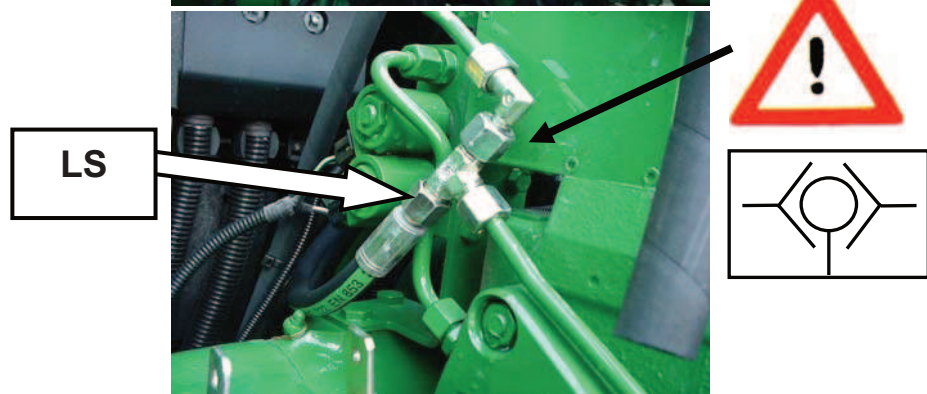
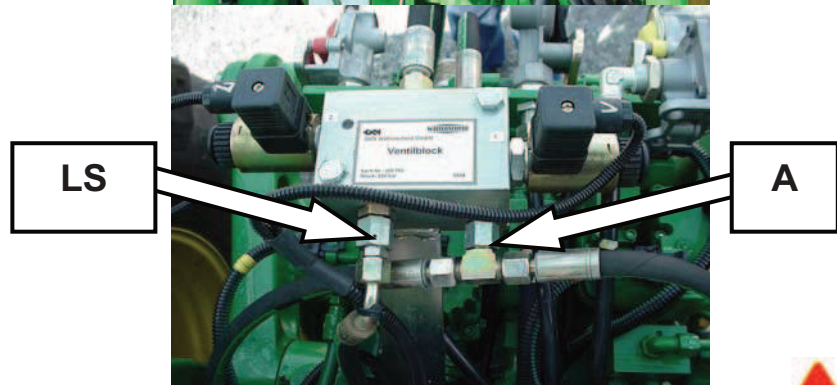
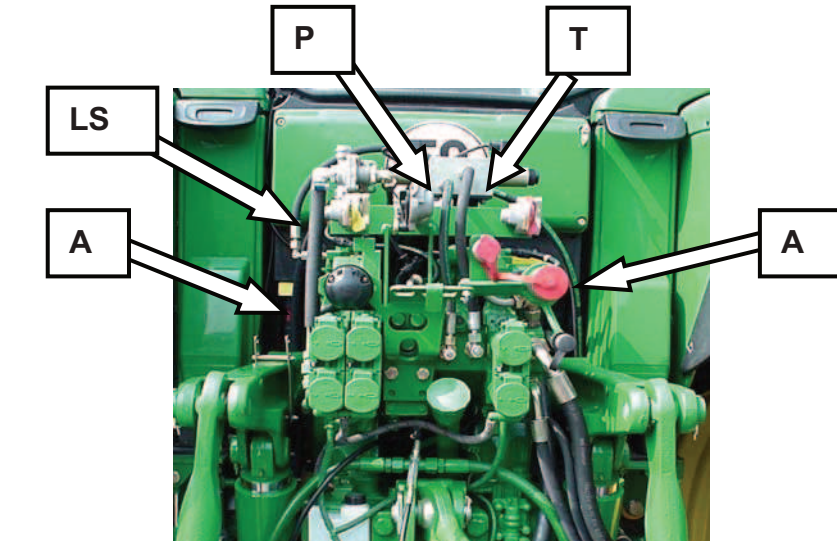
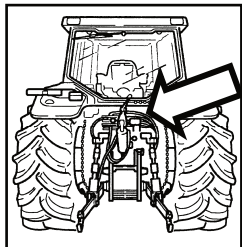
Dimensions for support for valve



Sheet metal thickness approximate 5 mm
e.g. flat steel 70 x 5 mm

05/2017

Connection of hydraulic valve



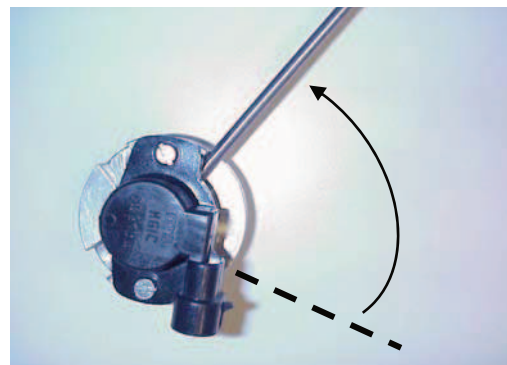
05/2017

Assembly of angle sensor

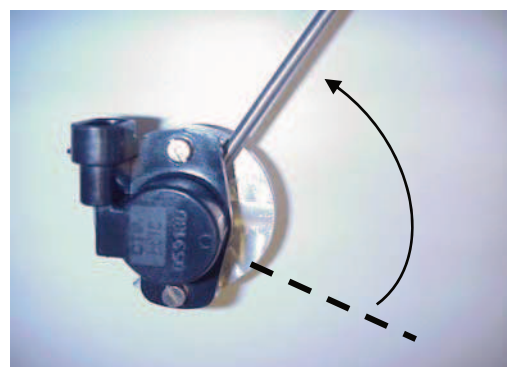


Please note: rod should hold upwards by spring load!

Preferred this way:

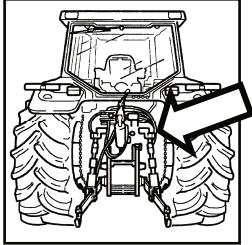


Alternativ:



05/2017

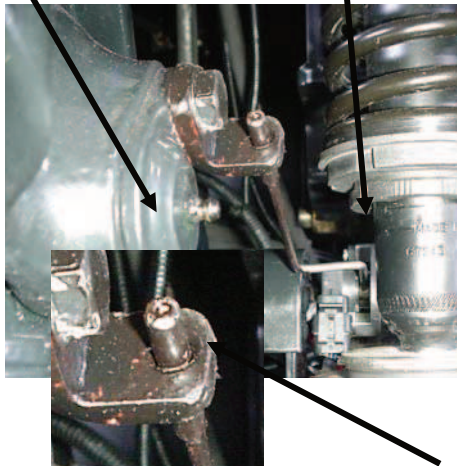
Mounting of angle sensor



Please note: axle of lift arm = axle of angle sensor

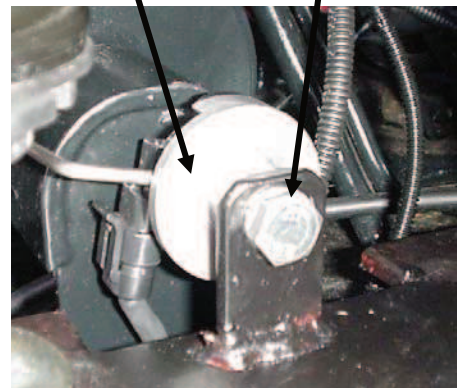
Lift arm
Example

Angle sensor



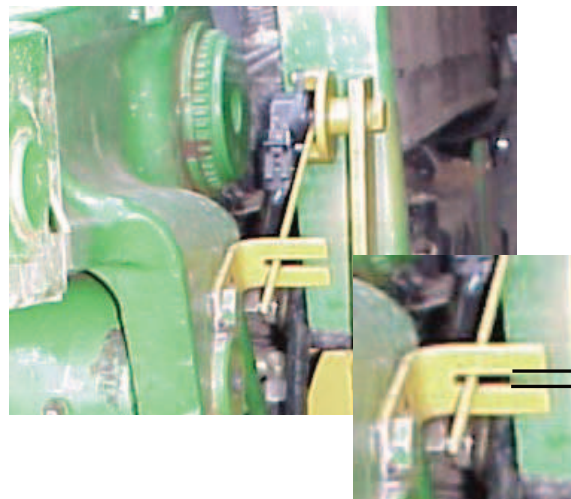
Angle sensor

Screw M 10



Hole = \varnothing 8 - 10 mm

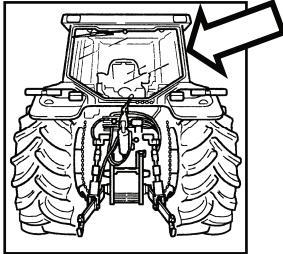
Additional examples:



8 - 10 mm

05/2017

Mounting of control unit



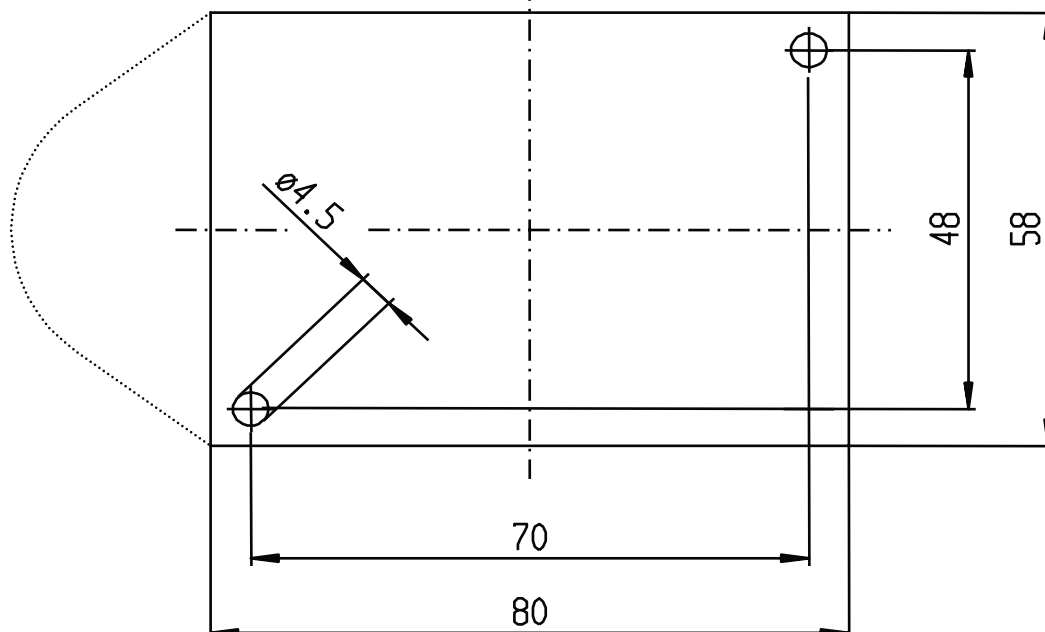
Mounting on cabin



Mounting on operating panel



Dimensions for support for control unit Sheet metal thickness approximate 5 mm



05/2017

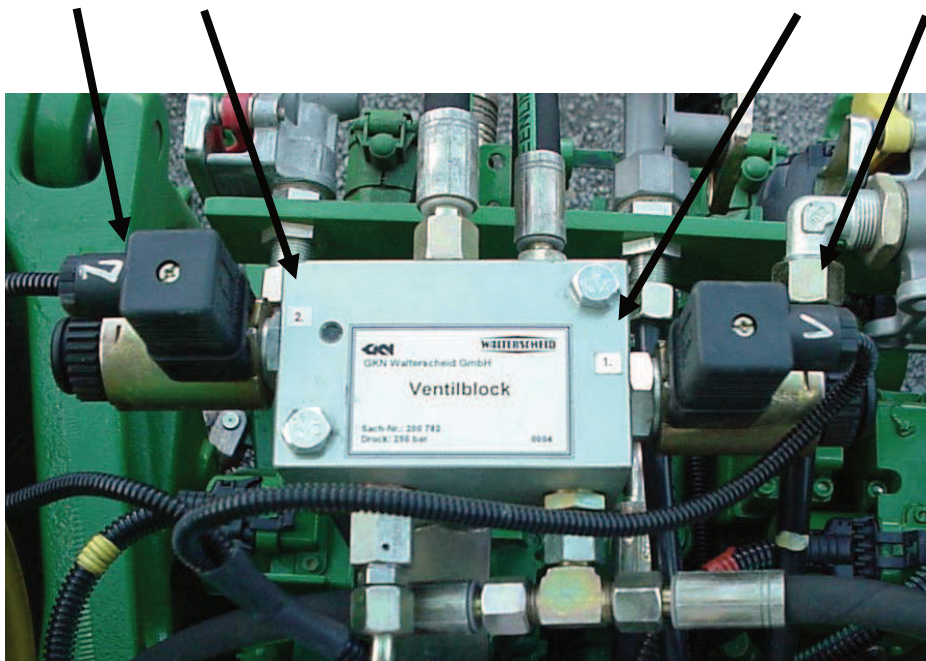
Electric connection of hydraulic valve



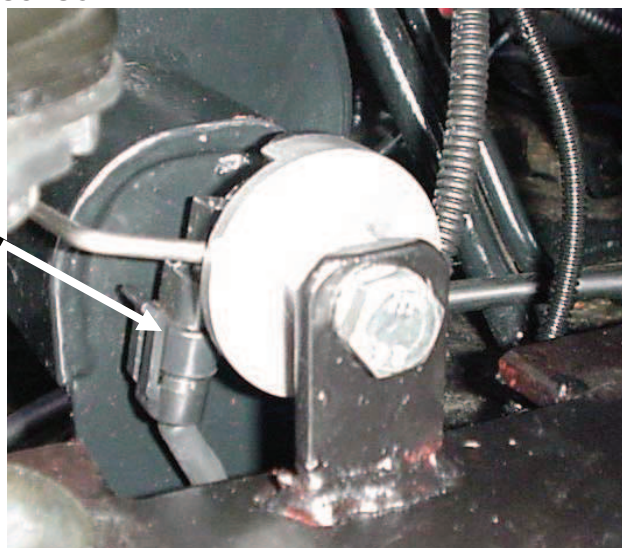
No. 2 => No. 2



No. 1 => No. 1

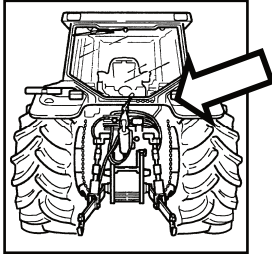


Electric connection of angle sensor



05/2017

Laying of cable harness



Cable input at cabin

Please note: consider sufficient clearance during laying of hydraulic tubes and electric wires and avoid chafe areas



Electric connection of control unit

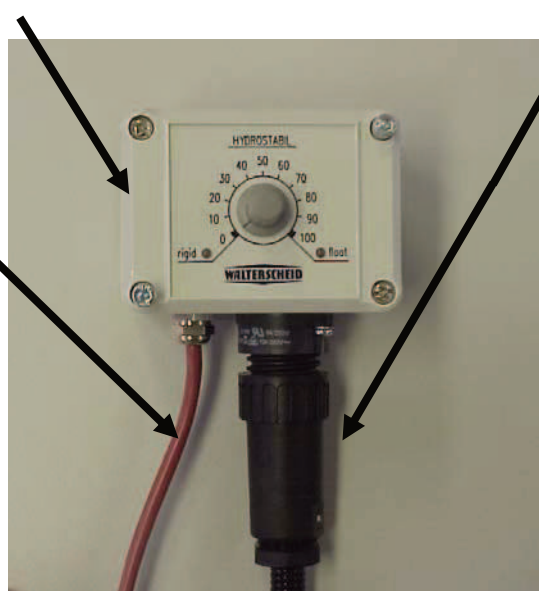
Voltage supply

Control unit

Control cable



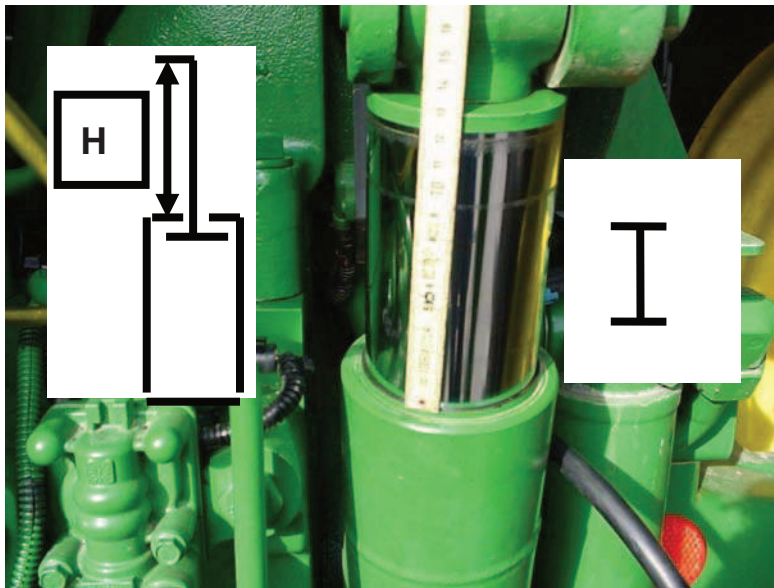
12 Volt
blue = +
brown = -



05/2017

Adjusting of angle sensor

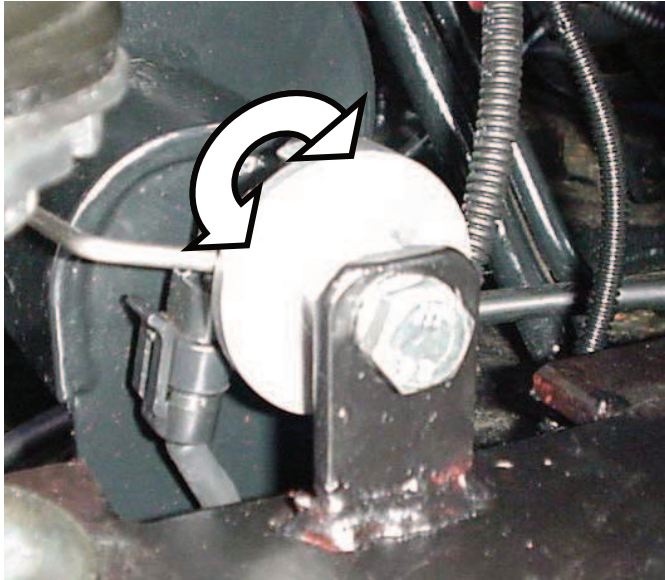
1. Adjust lift cylinder to half stroke



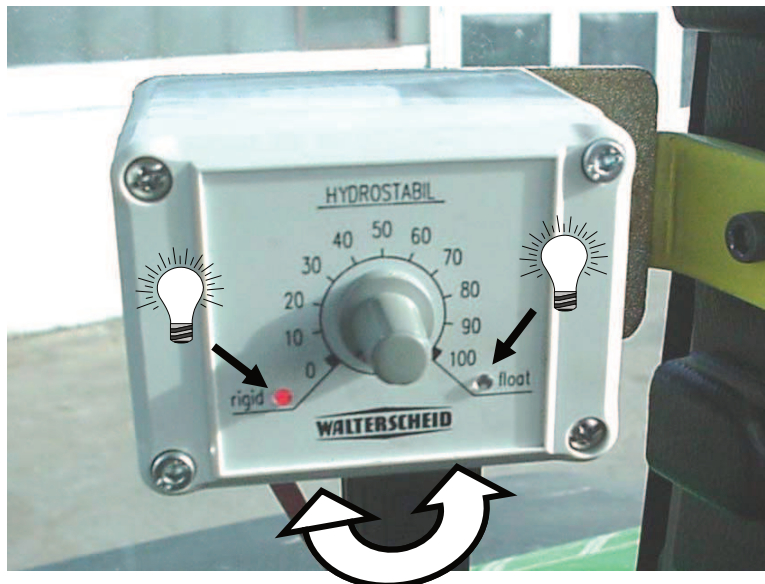
2. Set rotary switch to "50"



3. Loosen the screw
Rotate the angle sensor



4. Until both control LED's shines mutually
Fix the screw

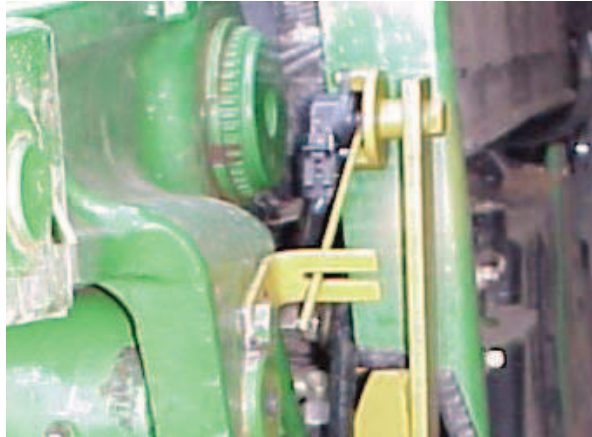


5. Control of rotary spread
 - Setting "0" (rigid) = rigid over complete lift level
 - Setting "100" (float) = float over complete lift level

05/2017

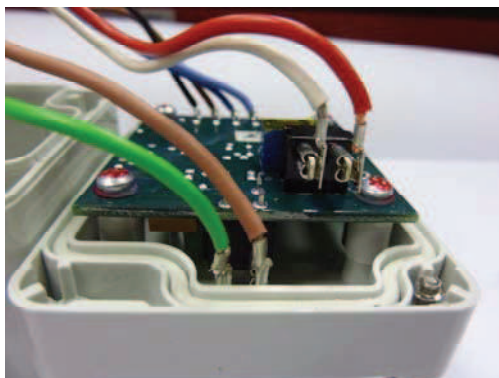
Changing of standard setting

Normally the angle sensor is mounted on RH

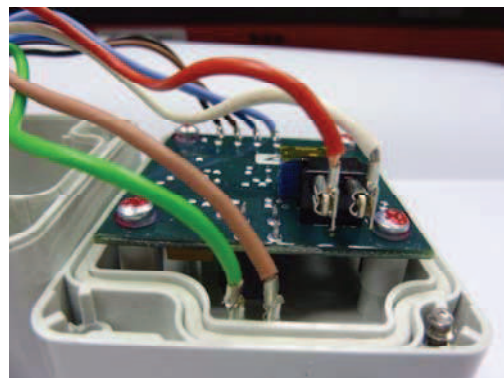


If this is not possible or the function RIGID or FLOAT is changed proceed as follows:

1. Open the control unit
2. Change the "red" and "yellow" wire
3. Close the control unit



green / brown / withe/ red

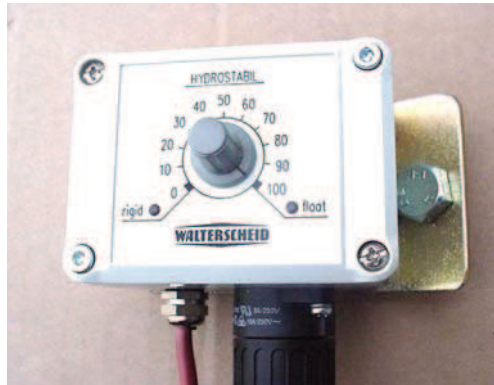


green / brown / red / withe

05/2017

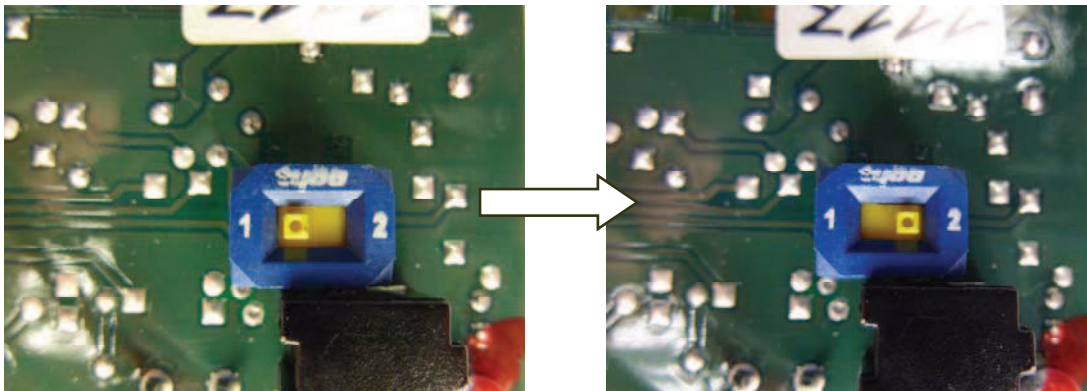
Changing of standard setting

Normally there is a rotary spread of approximately 0 -100

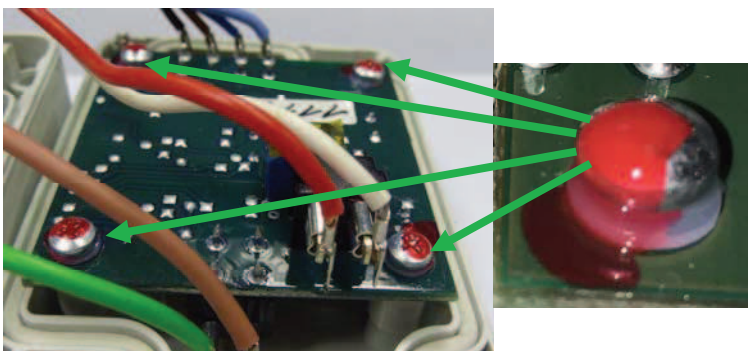


If the rotary spread is too small (approximate 30 – 70) it is possible to increase the resolution as follows:

1. Open the control unit
2. Change position of blue switch from “1” to “2”
3. Close the control unit



Note:

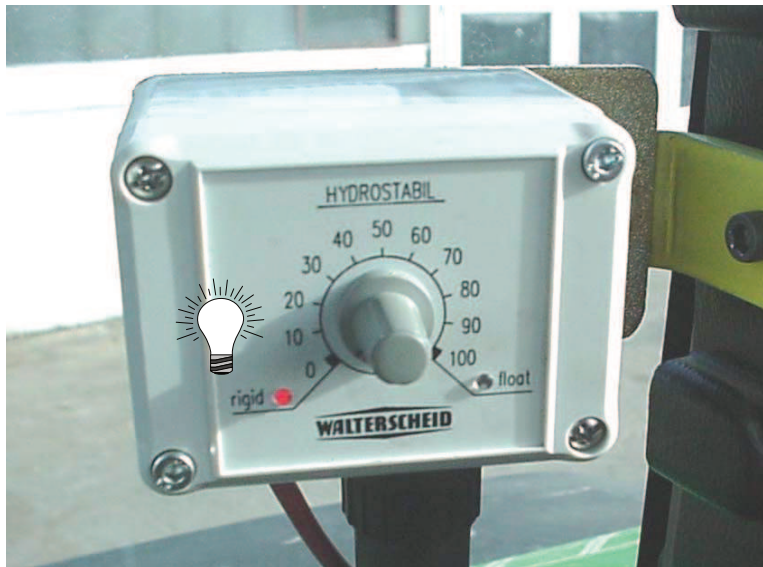


Screws must not be loosened.
Any warranty will lapse in case
of damage of the seal coating.

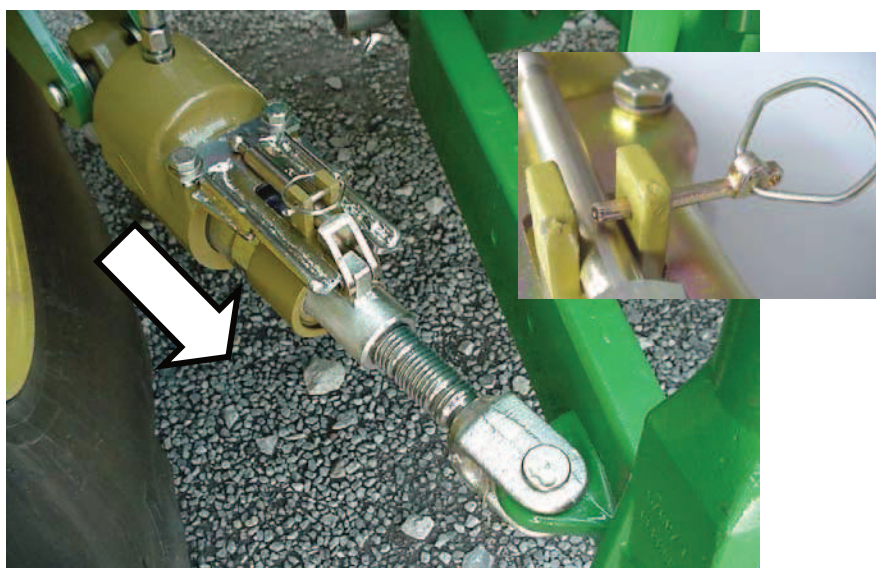
05/2017

Adjusting of spread

1. Set the system on RIGID



2. Stabilizers are at maximum length, disassemble linch pin

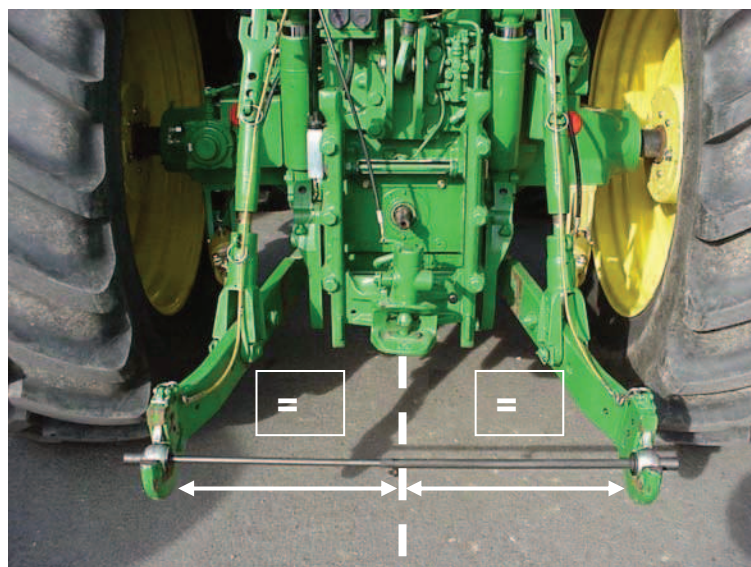


05/2017

3. Extend or shorten the thread (please note the minimum thread length) by turning the handle



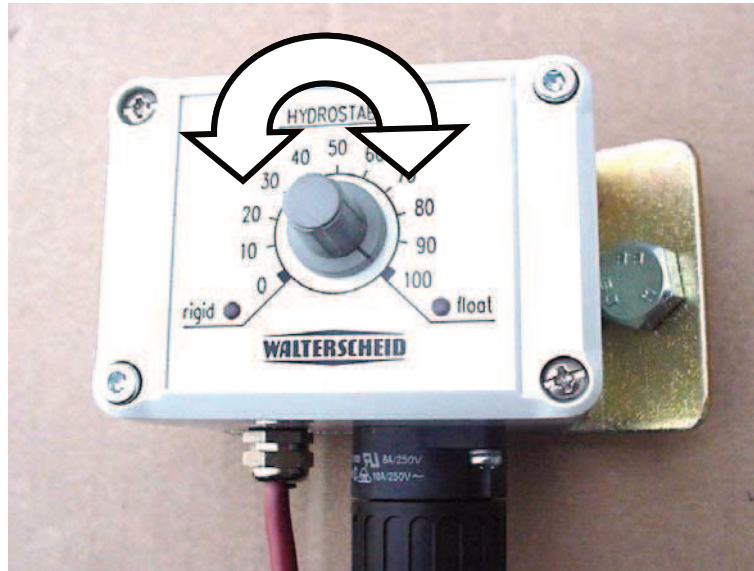
4. Adjust the spread symmetrical and assemble the linch pin



05/2017

Setting RIGID or FLOAT position

Choose the lift level for RIGID or FLOAT with rotary switch



Set always RIGID on the road!



Safety information



Function test

A review of the functions of the vehicle is necessarily perform before the vehicle is returned to the public after the installation and adjustment operations.



Lift and lower 3-Point linkage

Under some linkage adjustments it may happen that some loads of hydraulic stabilizer will affect load sensor of draft control.

This effect is caused by narrow spread adjustment or inclination.

Consequence of it can be unintentional lowering or raising of the 3-point linkage.

In order to exclude these uncontrolled movements of the 3-point linkage, the lifting gear regulation must be placed on 100%-Position control with the following situations:

- Operation of the linkage without tractor movement
- Transporting
- On/uncoupling of the attachment
- Work on the attachment
- For all attachments, which do not need a draft control regulation

Stabilising

System-dependently the attachment in the switching point of the stabilizer swings out laterally. This swivelling range is to be kept free