

**MONTAGE- UND BETRIEBSANLEITUNG  
INSTALLATION AND OPERATING INSTRUCTIONS  
INSTRUCTIONS DE MONTAGE ET D'UTILISATION**

21.09.2021

## ZUGZAPFENKUPPLUNG

## PITON-TYPE COUPLING

## ATTELAGE PITON-FIX

### WICHTIGE HINWEISE:

siehe Anlage oder separates Dokument BA\_TASC\_400002, [www.walterscheid.com/downloads/](http://www.walterscheid.com/downloads/)

### IMPORTANTANT NOTES:

see attachment or separate document BA\_TASC\_400002, [www.walterscheid.com/downloads/](http://www.walterscheid.com/downloads/)

### NOTES IMPORTANTES:

voir annexe ou document séparé BA\_TASC\_400002, [www.walterscheid.com/downloads/](http://www.walterscheid.com/downloads/)

# PITON-TYPE COUPLING

Piton-type couplings can be supplied as height-adjustable slider, piton-type drawbar or towing frame with piton. See also appropriate assembly and operating instructions as well as examples in figure 1.

## OPERATING RANGE:

For use on agricultural or forestry vehicles, self-propelled work machines or trailers.

## 1. DESCRIPTION:

The piton-type coupling dimensions and field of application complying with ISO 6489-4, VO (EU) 2015/208 and regulation UN ECE R147, class h.

In its normal state, the device is in coupled and locked position.

## TRAINER RINGS:

Only for connection with trainer rings (drawbar eye) according to ISO 5692-1 or UN ECE R147, class d50-1.



### IMPORTANT:

To avoid injury, protective gloves, safety glasses and safety shoes must be worn during all dismantling/ assembly actions described in this chapter.

## Environment:

Lubricants can enter the environment. Environmental pollution: Collect, store and correctly dispose of lubricants in suitable containers.

## 2. OPERATION:

(see Figure 2)



### WARNING:

The pertinent safety regulations must be observed when coupling and uncoupling.

No one may stand between the vehicles. The coupling may only be operated in locked condition.

When coupling and uncoupling, the drawbar must be as horizontal as possible relative to the coupling.

### 2.1 COUPLING:

- > Remove the linch pin (4) of the retainer pin (3) and pull out the pin. As an alternative to the linch pin, a spring cotter pin can be used.
- > Pivot the retainer (2) through 90° into the lateral position.
- > Move the drawbar over the piton (1).
- > Lower the drawbar by means of the drawbar support or a similar device.
- > Pivot the retainer (2) back into the direction of travel so that it is above the trailer ring.
- > Secure with the retainer pin (3) and the linch pin / spring cotter pin (4). Check the correct fit of the linch pin.

### 2.2 UNCOUPLING:

- > Use supporting jacks or similar to stop the trailer rolling away.
- > Remove the linch pin / spring cotter pin (4) of the retainer pin (3) and pull out the retainer pin.
- > Pivot the retainer (2) through 90° into the lateral position.

- > Raise the drawbar by means of the drawbar support.
- > Move the tractor forwards.
- > Pivot the retainer (2) into the direction of travel and secure it with the retainer pin (3) and the linch pin / spring cotter pin (4). Check the correct fit of the linch pin.

### 3. MAINTENANCE:

(see Figure 2)

#### 3.1 CARE:

- > The retainer (2) should be pulled out completely at regular intervals, depending on the frequency of use, and any dirt in the bearing has to be eliminated. Both retainer pins must be removed beforehand for this purpose. Subsequently re-grease the bearing.
- > The coupling must be lubricated with water-resistant, multi-purpose grease (Grease type: lithium saponified, consistency class: NL-GI2).

#### 3.2 CHECKS:

- > Piton (1):  
The min. diameter at the piton is 41.5 mm, measured 15 mm above the piton saddle plate. If it is reached, the piton-type coupling must be exchanged. A separately available Walterscheid test gauge can be used to comfortably control the wear limit.
- > Height play:  
(see figure 3)  
If the height play between piton and retainer exceeds 10 mm in closed state, the appropriate parts such as retainer (2) or piton-type coupling (1) must be replaced.



#### IMPORTANT:

Use only original Walterscheid spares when replacing parts. If the vehicle owner does not have the appropriate skilled workers and the necessary technical equipment, the replacement may only be performed by a specialist workshop.



#### WARNING:

##### SAFETY NOTES:

- > The user is obliged to always operate the coupling in perfect condition and to forbid its use by unauthorised persons.
- > The loads indicated on the type plate may not be exceeded.
- > Unauthorised conversion or modification of the coupling is not permitted.

Bild 1 – Beispiele von Baugruppen mit Zugzapfen

Figure 1 – Examples of assemblies with piton

Figure 1 – Exemples de montages avec piton



Anhängebock mit Zugzapfen  
Towing frame with piton  
support d'attelage avec piton

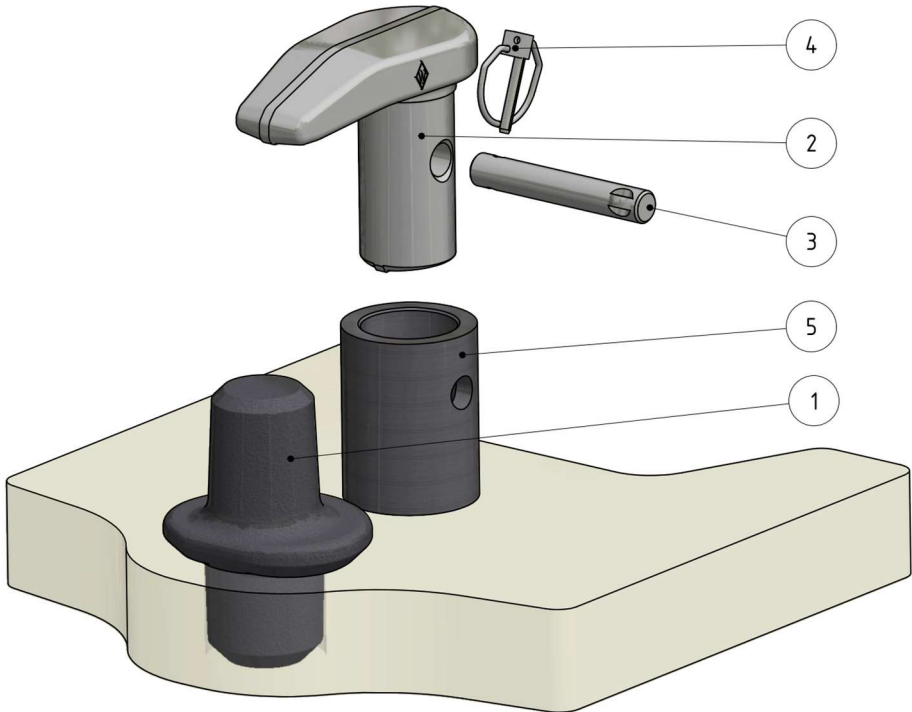


Pitonbalken  
Piton drawbar  
Barre de piton



höhenverstellbarer Pitonbock  
height-adjustable piton frame  
Support de la piton réglable en hauteur

Bild 2  
Figure 2



Piton-Fix mit drehbarem Niederhalter  
Piton-Fix with turnable retainer  
Piton-Fix avec dispositif de retenue pivot

Legende:

- 1 Zugzapfen
- 2 Niederhalter
- 3 Niederhalterbolzen
- 4 Klappstecker
- 5 Lagerung

Legend:

- 1.. piton
- 2.. retainer
- 3.. locking pin
- 4.. lynch pin
- 5.. bearing

Légende:

- 1.. piton
- 2.. dispositif de retenue
- 3.. boulon de retenue
- 4.. goupille
- 5.. logement

Bild 3  
Figure 3

