









★	<b>DF BUFFER</b>		Dwg : YH51-YH55
	<b>Duties 1.0-2.54 m/s, 600-4560kg</b>		Date : 5/15/2007 Page : 1/10
<b>Installation, Use and Maintenance Instructions</b>			
1	Buffer Specifications		 Pack

# INSTALLATION, USE AND MAINTENANCE MANUAL

## FOR OIL BUFFER YH51-YH55



		<b>DF BUFFER</b>				Dwg : YH51-YH55					
		<b>Duties 1.0-2.54 m/s, 600-4560kg</b>				Date : 5/15/2007					
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<b>Installation, Use and Maintenance Instructions</b>											
1	Buffer Specifications										Pack

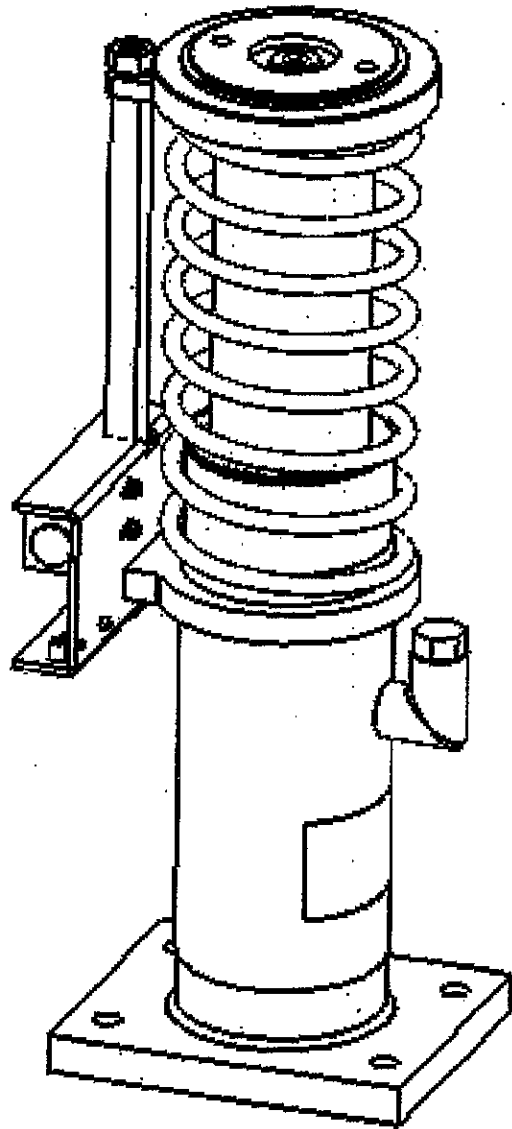
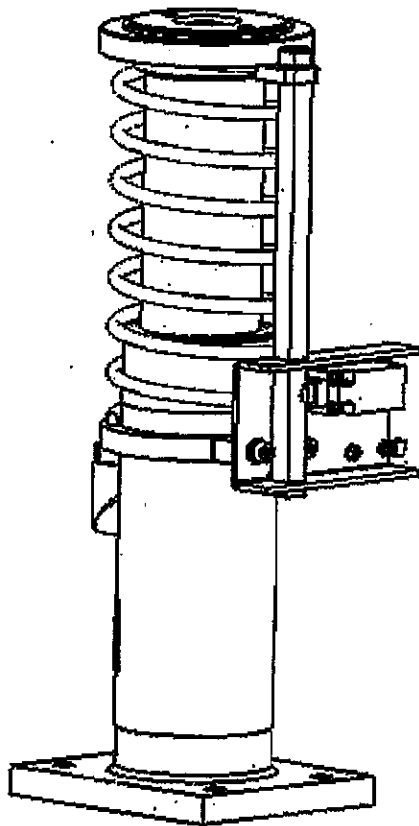
## Specification of the buffers

DF No.	Max. Rated Speed (m/s)	Strike Speed (m/s)	Min. Strike Load (kg)	Max. Strike Load (kg)	Stroke (mm)	Max. Overall Free Length(mm)	Interface Dimension (mm)	Holes Dimension (mm)	Outside Dimension(m m)	Weight w/o Oil (Kg)	Volume of Oil (Liter)
YH51/80	1.00	1.15	600	3500	80	315 +/- (3)	150x100	4-φ14	190x160	16.5	0.5
YH52/173	1.60	1.84	600	4560	175	540 +/- (6)	150x100	4-φ14	190x160	23.2	1.02
YH53/219	1.80	2.07	600	4560	220	640 +/- (3)	150x100	4-φ14	190x160	25.3	1.27
YH54/279	2.03	2.34	600	4560	280	775 +/- (3)	150x100	4-φ14	190x160	28	1.6
YH55/435	2.54	2.92	700	4560	435	1125 +/- (3)	150x100	4-φ14	190x160	38.6	2.45







1. Check the packing list and marking plate to ensure the specification data is same.
2. The buffers without switch are given new buffer No. :YH51A,YH52A,YH53A,YH54A, YH55A.
3. The min working oil level is designed for oil level checking when doing maintenance or regular checking. It is not necessary to add oil when the oil level is above the groove on the elbow cap.. But, when filling oil on the site for the first installation, please refer to the instructions on the Page 6.
- 4.This manual covers Buffer YH51-YH55

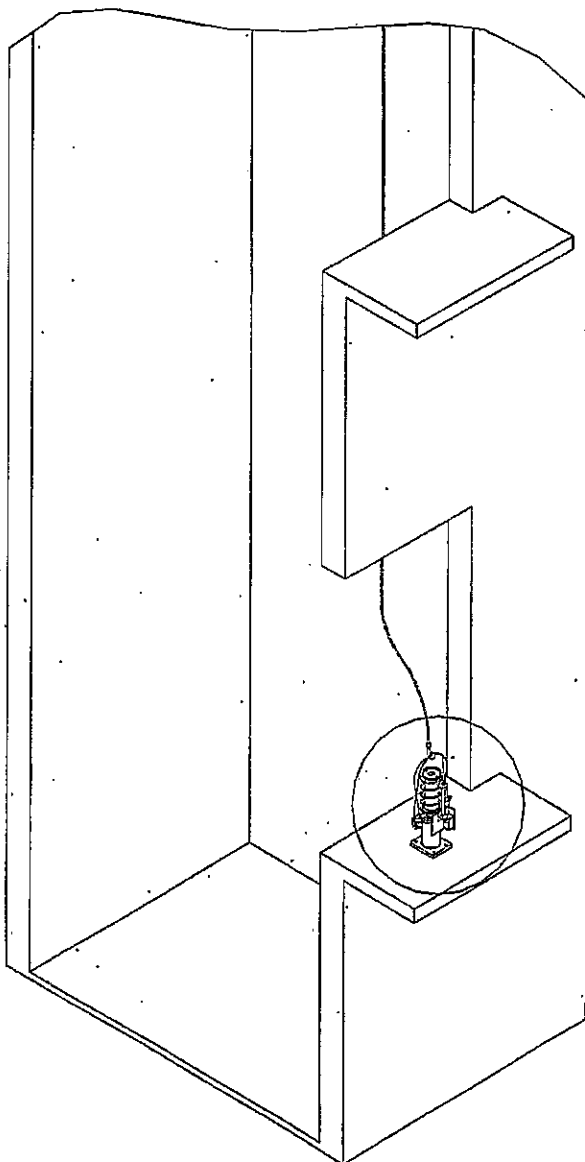
The buffer is not allowed to put into use if the oil level is below the min working level

<b>DF BUFFER</b>		Dwg : YH51-YH55
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<b>Installation, Use and Maintenance Instructions</b>		
1	Buffer Specifications	 



Buffers have an exposed spring.


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		<b>Installation, Use and Maintenance Instructions</b>						
2	Hoisting and Leveling							Pack

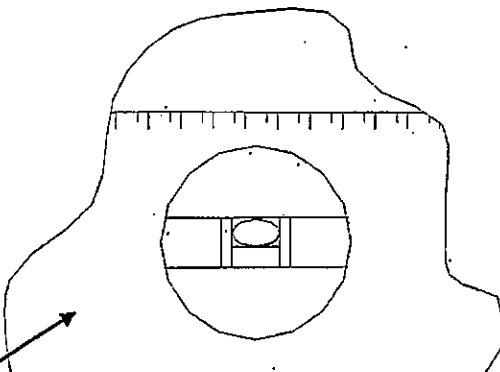
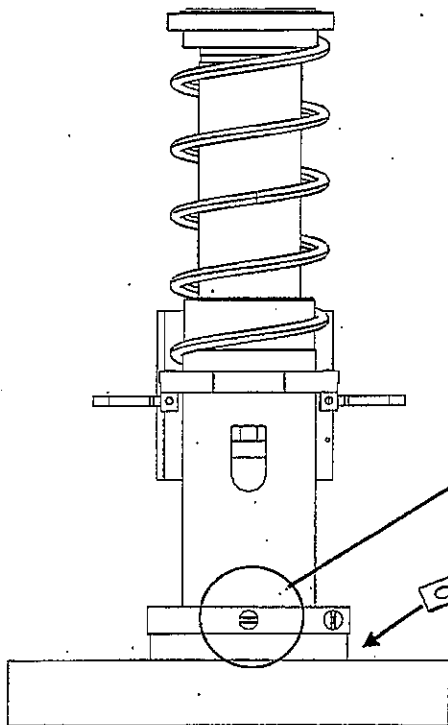


**Caution: do not stand under a suspended load.**

1<sup>st</sup> Man operate hoist.  
2<sup>nd</sup> Man guide and receive buffer in pit.

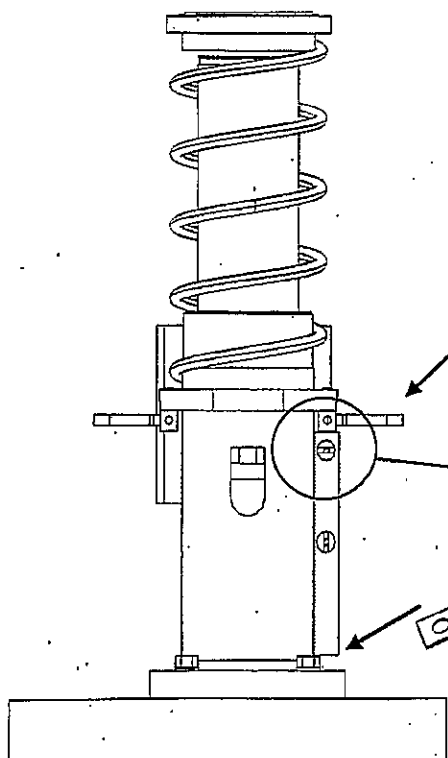
The weight of buffer for YH52, YH53, YH54 and YH55 >23Kg (50lb.) No handle is installed on the buffers. Please find correct way to hoist it

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<b>Installation, Use and Maintenance Instructions</b>		
3	Leveling	
		Pack

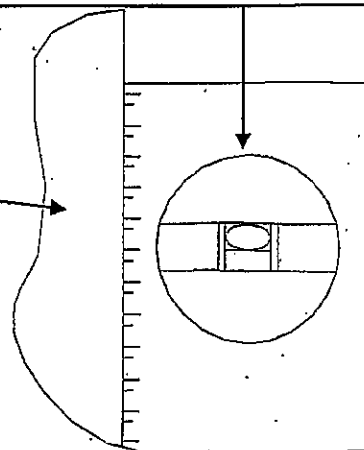


Level baseplate first to get the buffer close to vertical plumb. Add or remove shim to vertically level cylinder.

Buffer shim stock and fasteners supplied with pit hardware. Check job plan drawings.



Buffer cylinder must be vertically plumb with-in 1, (one), degree. (Bubble between the outside lines of level tool.)



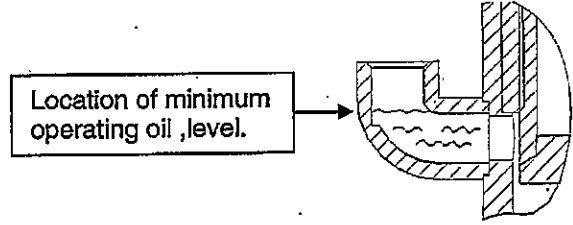
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<b>Use and Maintenance Instructions</b>		
4	Oil level checking and oil filling	
		Pack

Only remove elbow cap, adding or checking oil level. **Note:** Buffers can be shipped pre-filled with oil. If fill oil on the site Use only Oil Grade: ISO VG 68 Or Equivalent.

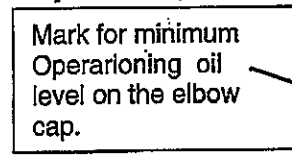
**Whenever you check the min. working level, please do as follows:**

1. Unscrew elbow thread cap
2. Wipe it clean
3. Dip again (not screw in)
4. Confirm oil level is above the groove
5. In case below it add oil up to chamfer edge of elbow..

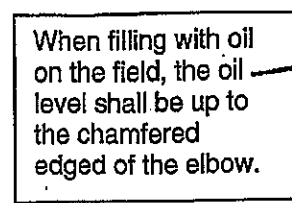
Use this tool attached with buffer to unscrew the sealing screw



Location of minimum operating oil level.



Mark for minimum Operating oil level on the elbow cap.

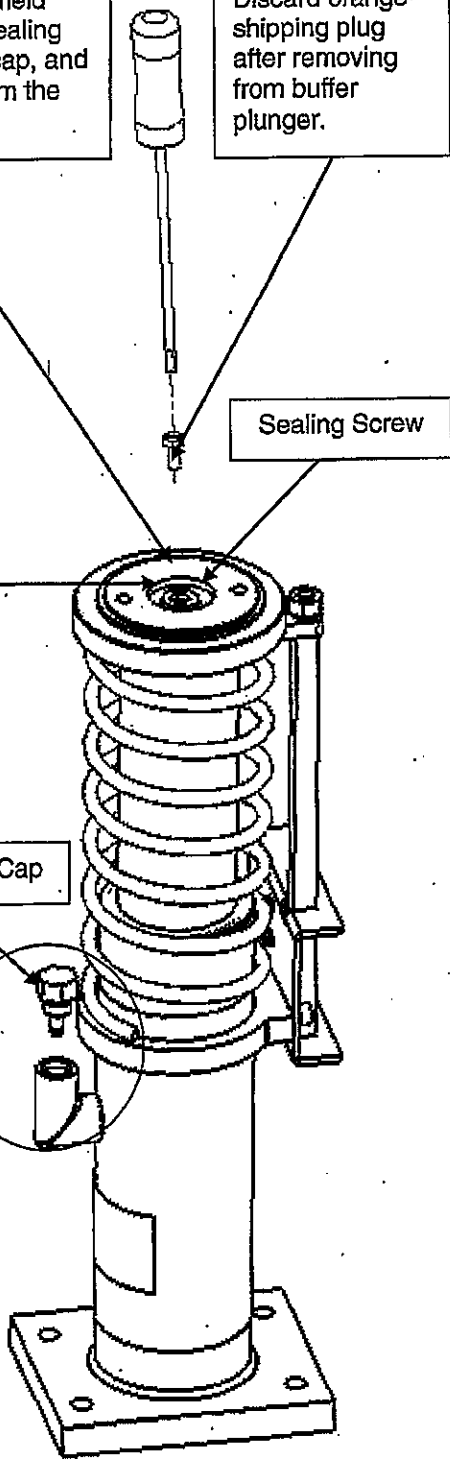








When filling with oil on the field, the oil level shall be up to the chamfered edged of the elbow.

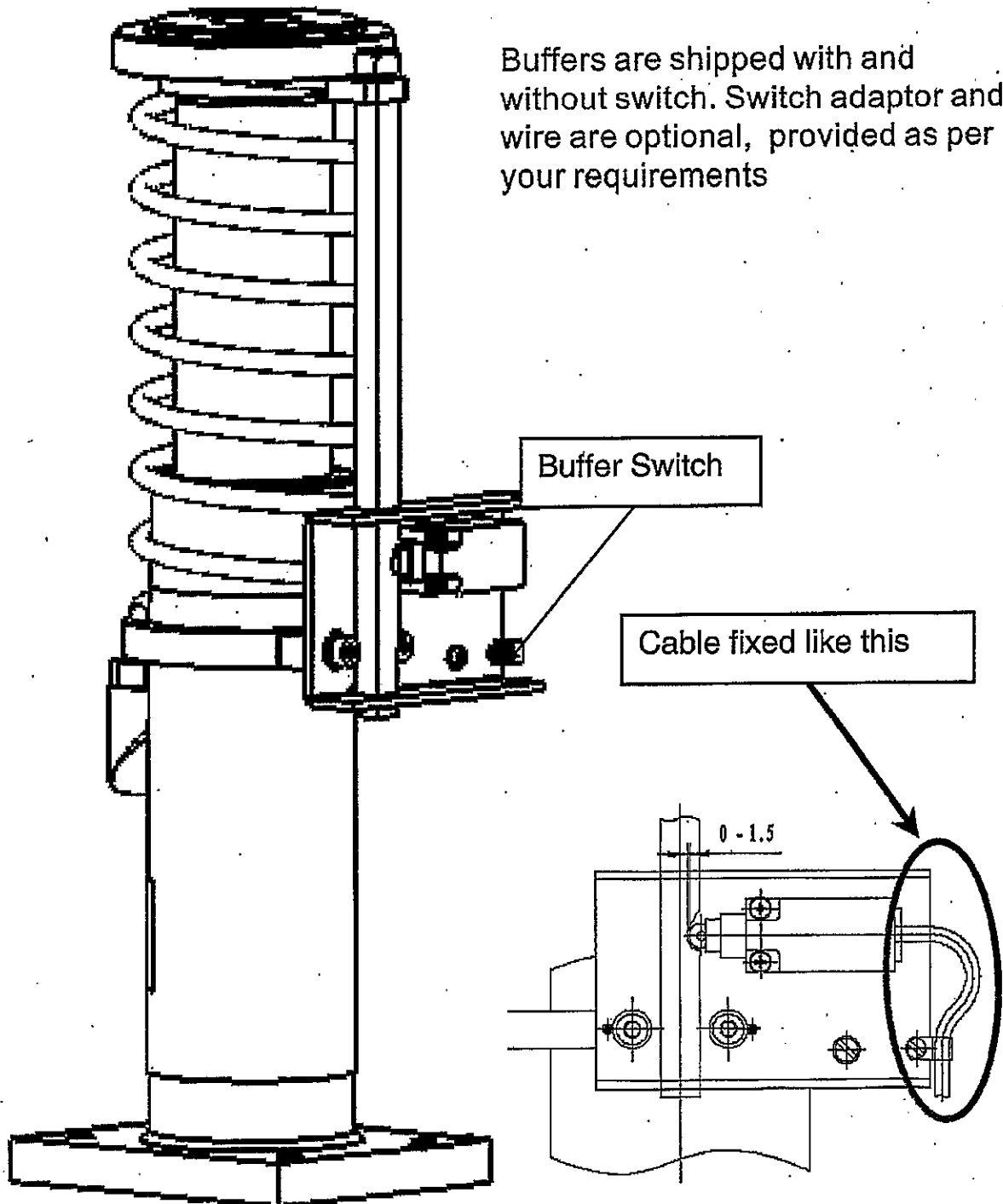
**Note:** Always check buffer oil level prior to buffer activation.

When filling oil on field site, remove the sealing screw and elbow cap, and then pour in oil from the hole

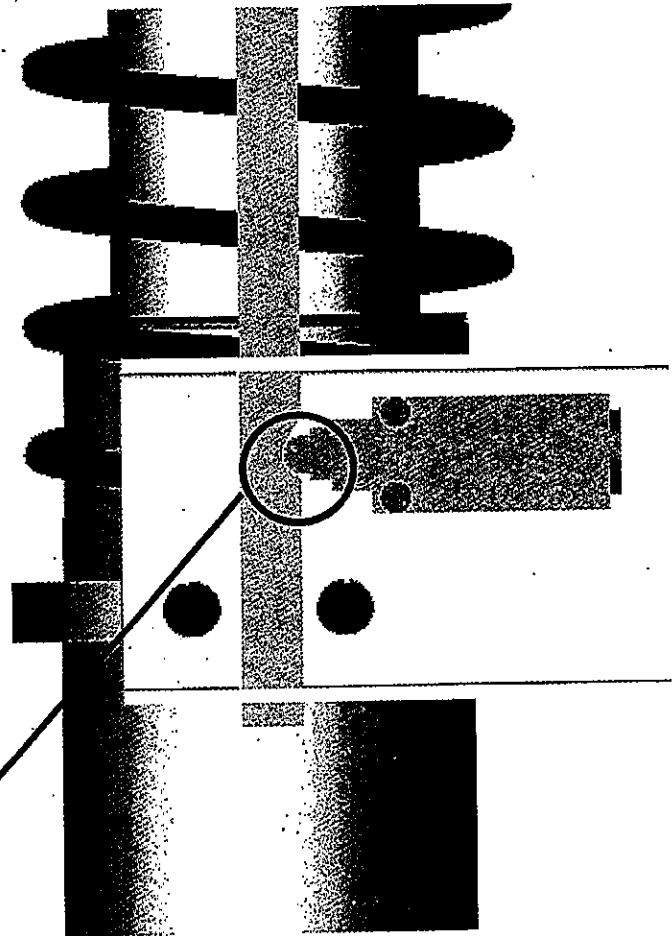
Discard orange shipping plug after removing from buffer plunger.



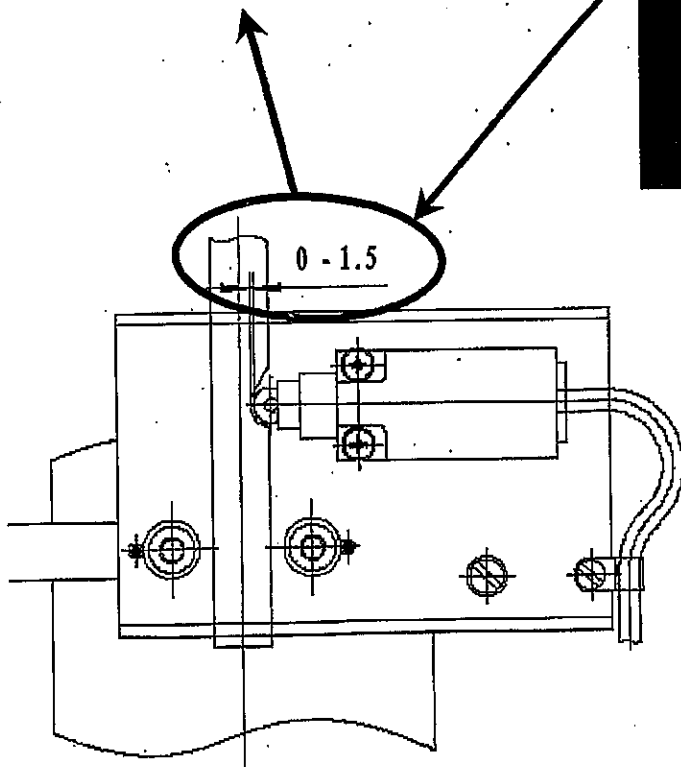
★	<b>DF BUFFER</b>		Dwg : YH51-YH55
	<b>Duties 1.0-2.54 m/s, 600-4560kg</b>		Date : 5/15/2007 Page : 7/10
<b>Installation</b>			
5	Switch Adjustment & Wiring	     	Pack









		<b>DF BUFFER</b>			Dwg : YH51-YH40		
		<b>Duties 1.0-2.54 m/s, 600-4560kg</b>			Date : 5/15/2007		
		<b>Installation and Use Instructions</b>					
6	Switch Adjustment						Pack

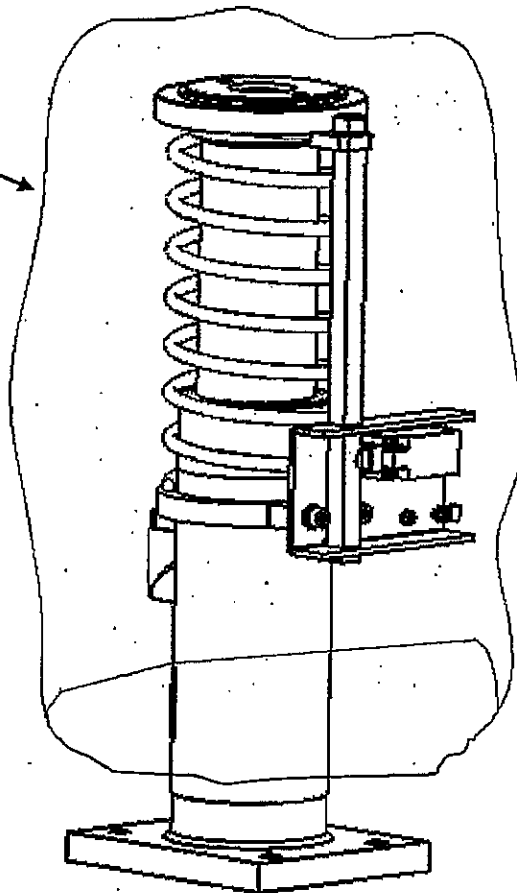


The buffers are already well adjusted before delivery, however, if adjustment is necessary please make sure that the switch is adjusted as the pictures shows









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<b>Installation and Use Instructions</b>				
7	<b>Plunger Protection and Maintenance</b>	    		<b>Pack</b>

Plastic shipping bag



**Note:** remove plastic shipping bag before testing.

Use plastic shipping bag over plunger to protect plunger surface during installation if required in your area.  
**Caution: Plastic bag is flammable.**

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<b>Installation and Use Instructions</b>								
7	<b>Plunger Protection and Maintenance</b>							<b>Pack</b>

#### Maintenance

1. Whenever the buffer is activated, the oil level checking will be necessary. Please refer to Page 6 for oil level checking.
2. When do regular inspection of the elevator, please check oil level, fully compress the buffer in slow speed to see if it can return freely. Check the buffer to see if any oil leakage happens, if the plunger has rust, if there is any thing on the sealing screw.