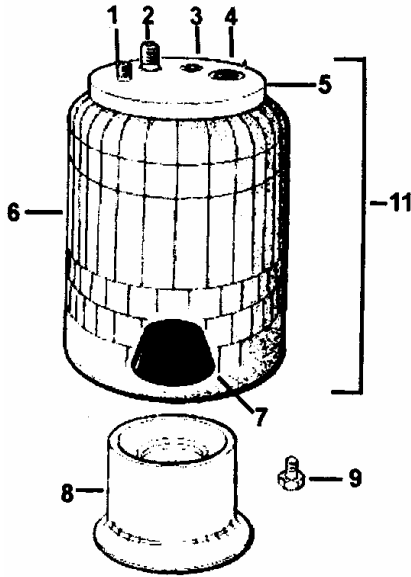


# Barry Stoodley Pty Ltd

## COMMON TERMINOLOGY



**1. Stud**

A permanent part of the bead plate assembly, used to attach spring to suspension.

**2. Combination Stud**

Serves dual purpose of mounting the spring to the suspension, & providing an air entrance.

**3. Trapped Hole (Blind Nut)**

Also a permanent part of the bead plate assembly. An alternative mounting system to the stud.

**4. Air Fitting**

Provides air entrance for the part.

**5. Bead Plate**

Usually crimped to the diaphragm/bellows on manufacture.

**6. Diaphragm/Bellows**

The heart of the Air Spring. Includes a number of layers of material - reinforced fabric & outer cover.

**7. Bump Stop**

Solid rubber safety device used on many truck suspension applications. Prevents excessive damage to vehicle & suspension in case of sudden loss of air pressure in the spring.

**8. Piston**

Lower section of the rolling lobe style. Usually made from aluminium, steel, or composite material (plastic). Provides lower mounting arrangement for the spring in the form of tapped holes or studs. Held to the diaphragm by the attaching bolt.

**9. Piston Bolt**

Attaches piston to service assembly & in some cases is extended to serve as means of attaching spring to the suspension.

**10. Girdle Hoop**

Band between the convolutions of the convoluted type springs helps to provide lateral stability. Dunlop type models use a loose steel type ring, other units use a specially designed wire-wound arrangement moulded into the nut.

**11. Service Assembly**

Available for replacement when the piston is not required.

OE Part No.	Suits
1T15M15-A3	Early Frueauf
1T15M6	Early Neway
2501202	Weweller/Holland 9 Tonne E & U Series
51295034	Krueger (RFS SUSP)
1R12-069	Denning
12883-01	Reyco 87/14 & New Zealand Transpro 88
90557009	Neway AR75(-12)
1R12-092	Neway AR75(-6 & -9), SA38, SA44
90557075	Neway ARD-244, ARDST-244 MK11 (Some Mack)
1003589082C	Ridewell Monopivot 240 Underslung
61-506243/01	York Tecair 1 (200 MTG Height) & Tecair 2
61-505859/01	York Tecair 1 (300-400 MTG Height)
2501201	Holland Weweller 11 Tonne
12884-01	Reyco 102AR Truck Suspension
C20010	Hendrickson HT230 Overslung
05.429.42.250 (941MB)	BPW Type 30 (Old. 05.429.400.30)
HM-C-20010	Hendrickson HT230 Overslung
05.429.42.260 (881MB)	BPW Type 36 (Old. 05.429.40.010)
50405-001 (HDR1r12-225)	Hendrickson Truck Susp HA Series & WD460
57122-001 (HD1S121-019)	Hendrickson Truck Susp Has Series & WD2 460
K303-15 (1R11-028)	Kenworth Air Glide 100 8 Bag. (W01 544-9614)
05.429.42.200 (940MB)	BPW Type DK30 (Old No. 05.429.40.910)
81.43601.0121	M.A.N L2000 15 Tonne. 4 x 2.6 cyl
21222442	R.O.R 9 Tonne Standard FL9000
21208082G	R.O.R 11 Tonne FL11000 Low
21222239	R.O.R 11 Tonne Standard FL11000
61.61005	Tecair FB (150/300/370) 644N
2002	Evotrak X360 & X300 644N
21222673	R.O.R FL9000M (FL9000 with 2 Leaf Spring)
21223269	R.O.R FL11000L/150 (Special 150mm Ride Height)
HC20901	Hendrickson Intrax AA250 Trailer Susp
HT133930	Neway/Evotrac
C20124	Hendrickson HT250 Trailer Susp.
20018-01	Reyco 86AR (18813-01)
61.61005	Tecair FB (190/400) 720N
2001	Evotrak X400 & U190 720N
21222663	R.O.R Used for Axle Lift

## TROUBLE SHOOTING

**Problem:**

All Air Springs flat (no air)

**Possible Cause:**

Insufficient air pressure in the vehicle air system. Air leakage from the suspension air system or the air brake system.

**Problem:**

Air spring(s) flat on one side of the vehicle only.

**Possible Cause:**

Air leakage between the height control valve and the Air spring(s)

Air spring(s) leaking air.

Bent, broken or disconnected height control valve linkage

Height control valve out of adjustment. Inoperative height control valve.

**Problem:**

Tractor leans slightly due to unequal inflation of air springs.

**Possible Cause:**

Damaged height control valve or valve linkage.

Loose or missing height control valve bolts or adjustment locknut.

Height control valve out of adjustment.

**Problem:**

Air spring deflates rapidly when vehicle is parked.

**Possible Cause:**

Air leakage from the suspension air system.

**Problem:**

Air springs ruptured:

**Possible Cause:**

Air spring cut or punctured.

Tyres, rims or chains rubbing the air spring.

Air brake chamber rubbing against the Air Spring.

**Problem:**

Air Spring Failed.

**Possible Cause:**

Continual or repeated over-extension of the Air Spring

Air Spring(s) worn out.

**Problem:**

Air Spring(s) fail to fully deflate when all weight is removed from the suspension

**Possible Cause:**

Restricted air line(s) between height control