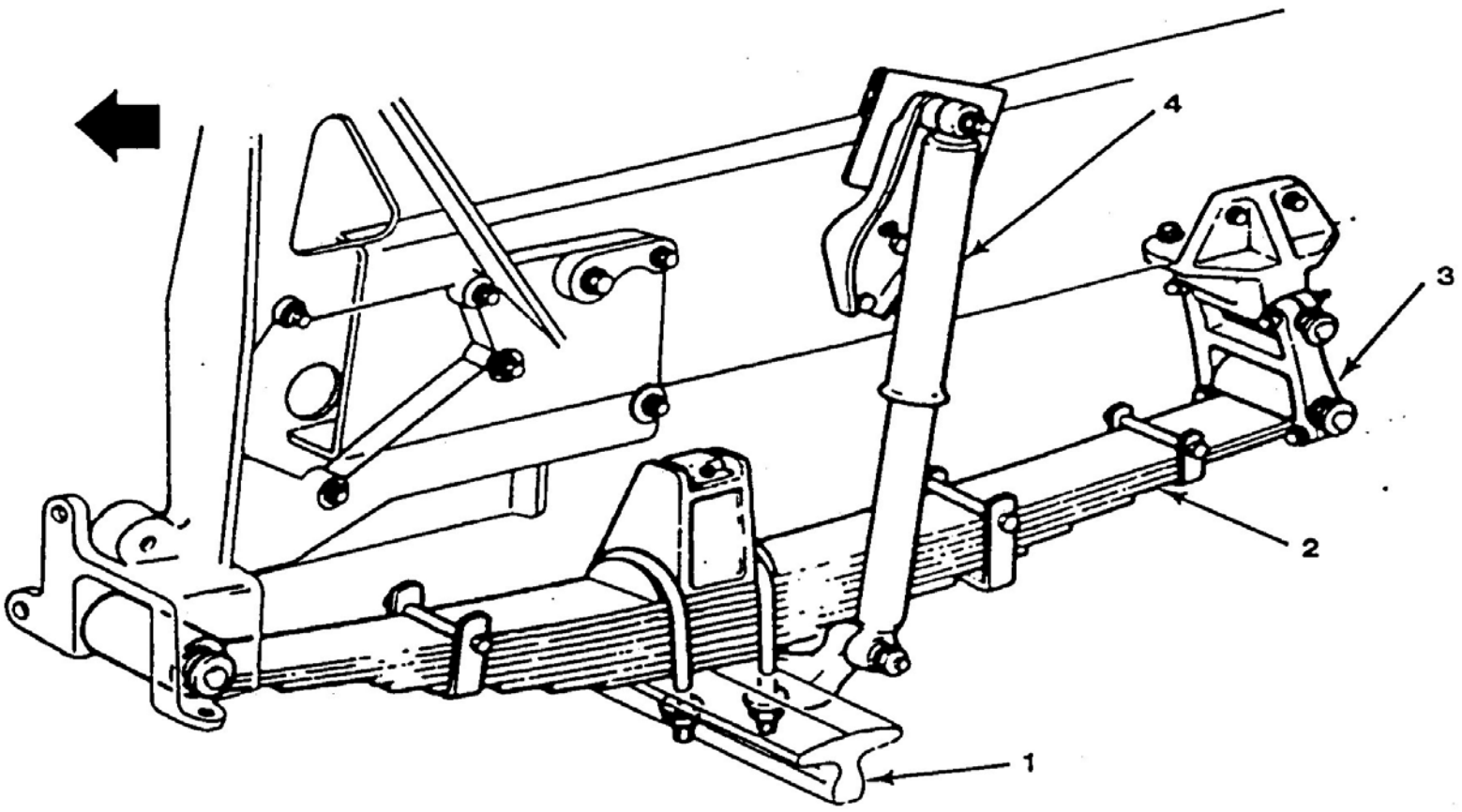
Welcome to

Specialty Products Company

Heavy Duty Truck

Alignment Training

Front Non-Independent Suspension



1. I-Beam Axle
2. Leaf Spring Assembly
3. Rear Shackle Assembly
4. Shock Absorber

Camber Decrease Both Sides

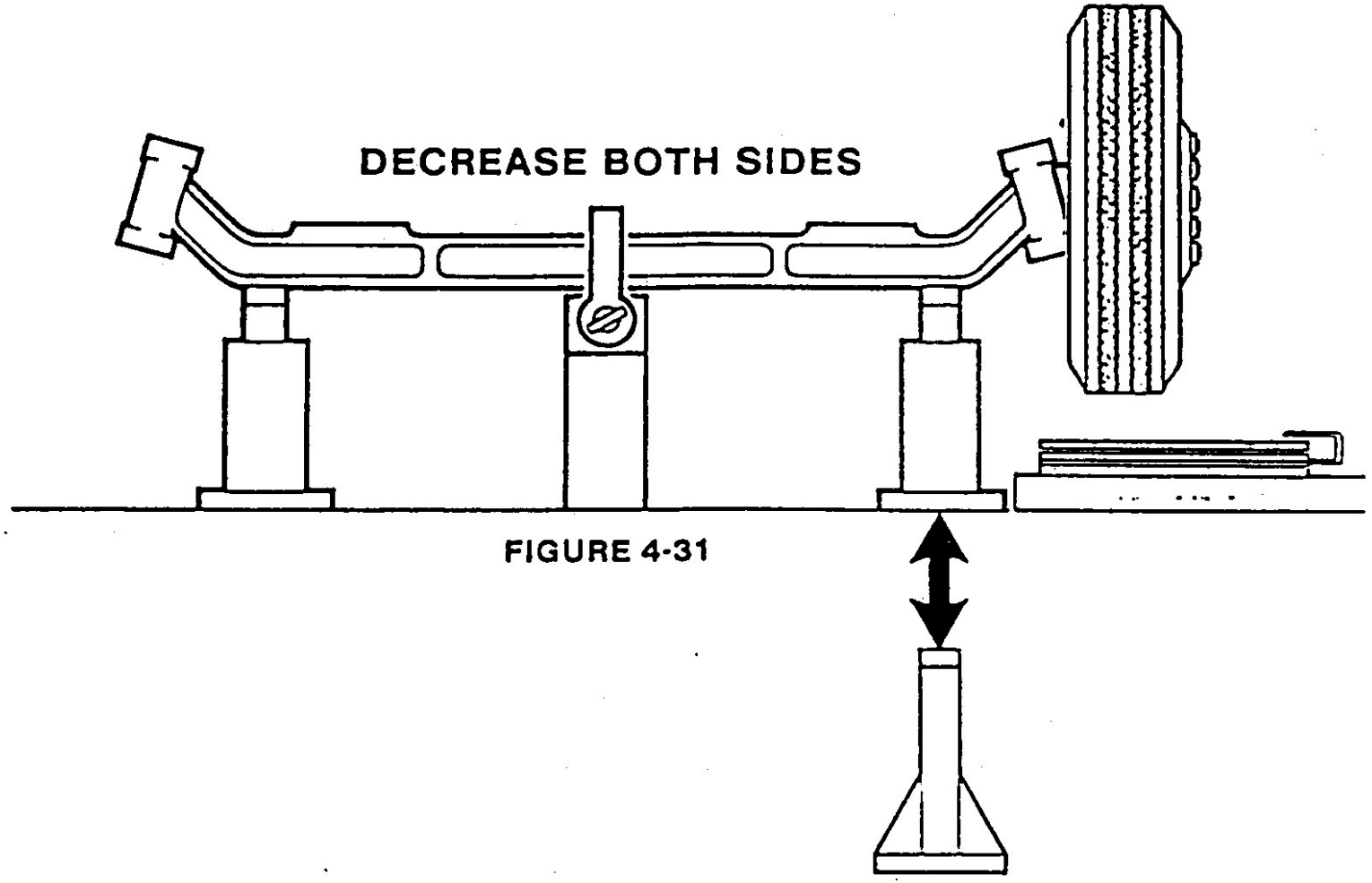


FIGURE 4-31

Camber Decrease One Side

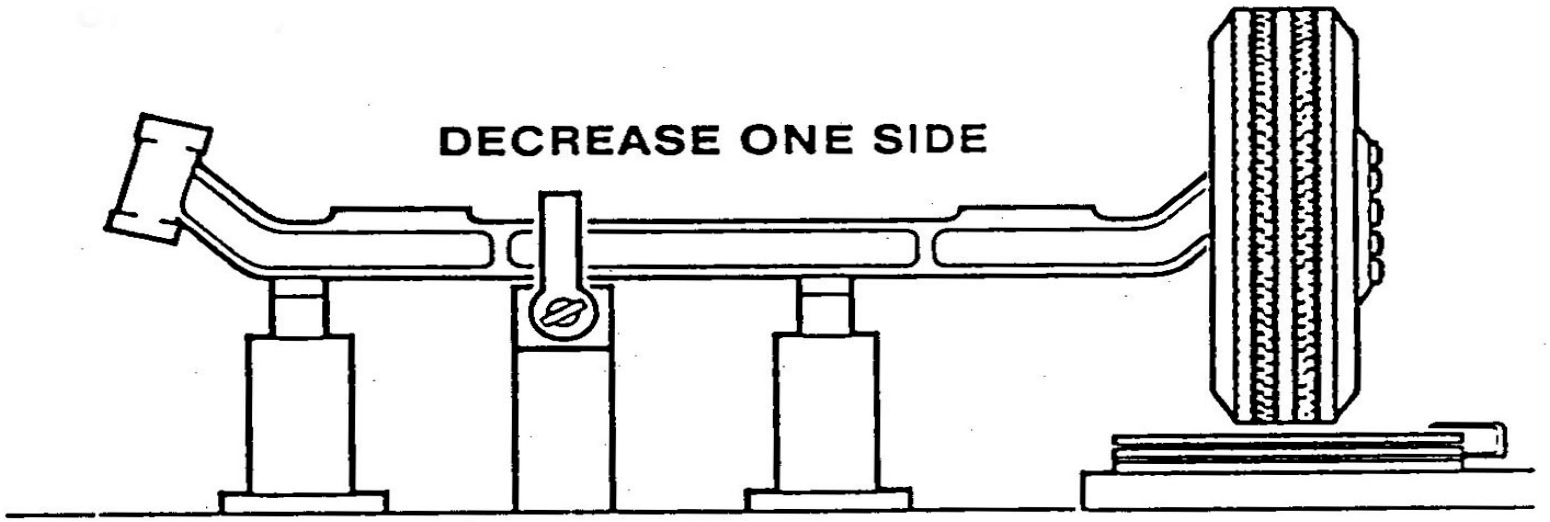


FIGURE 4-32

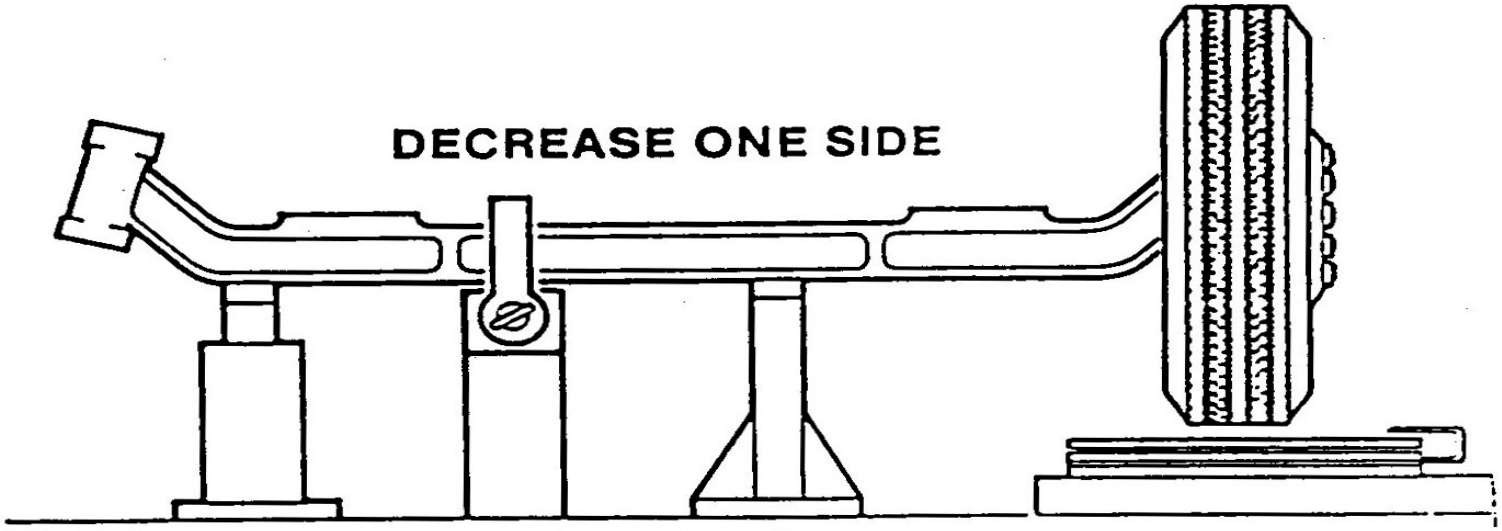
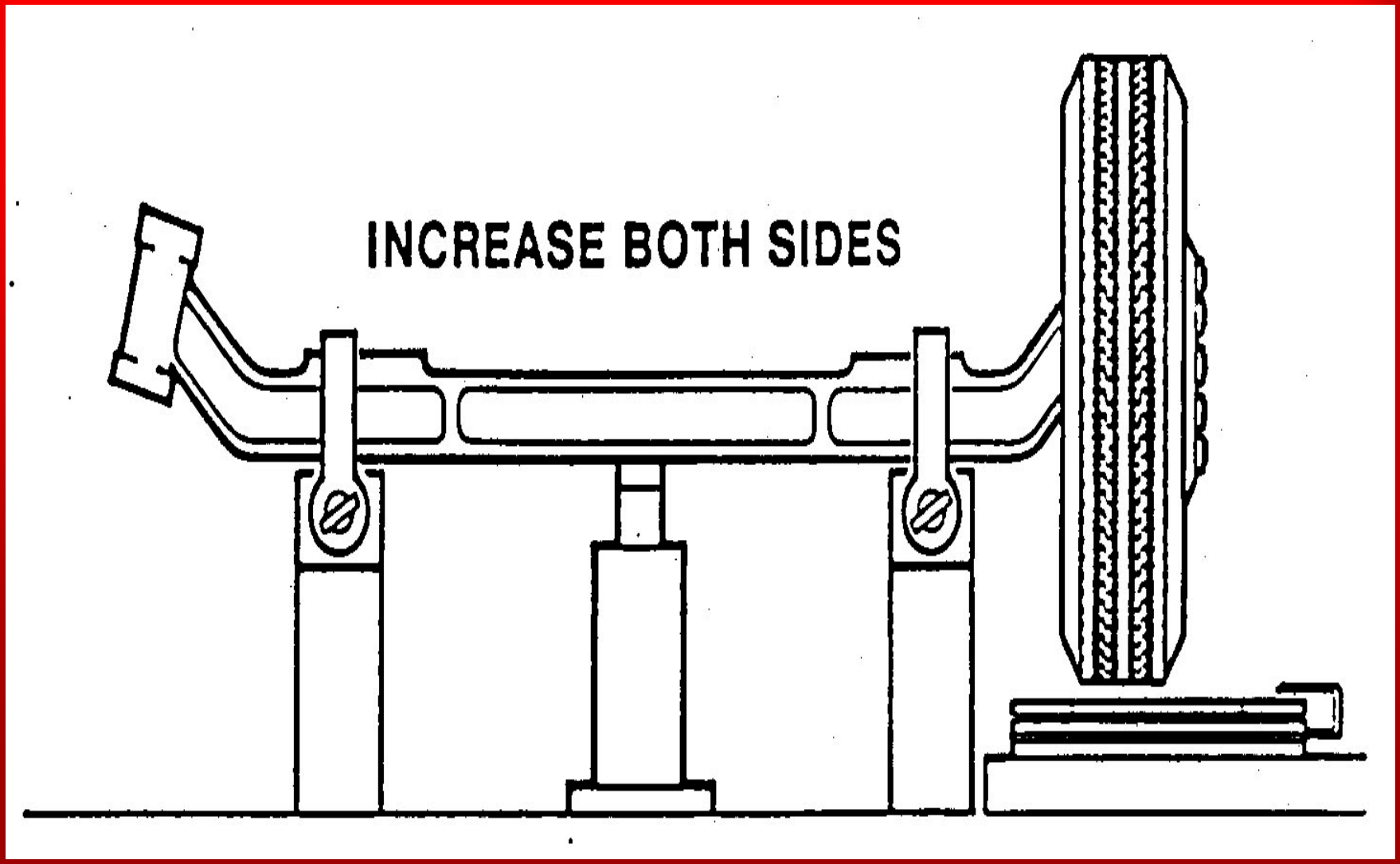
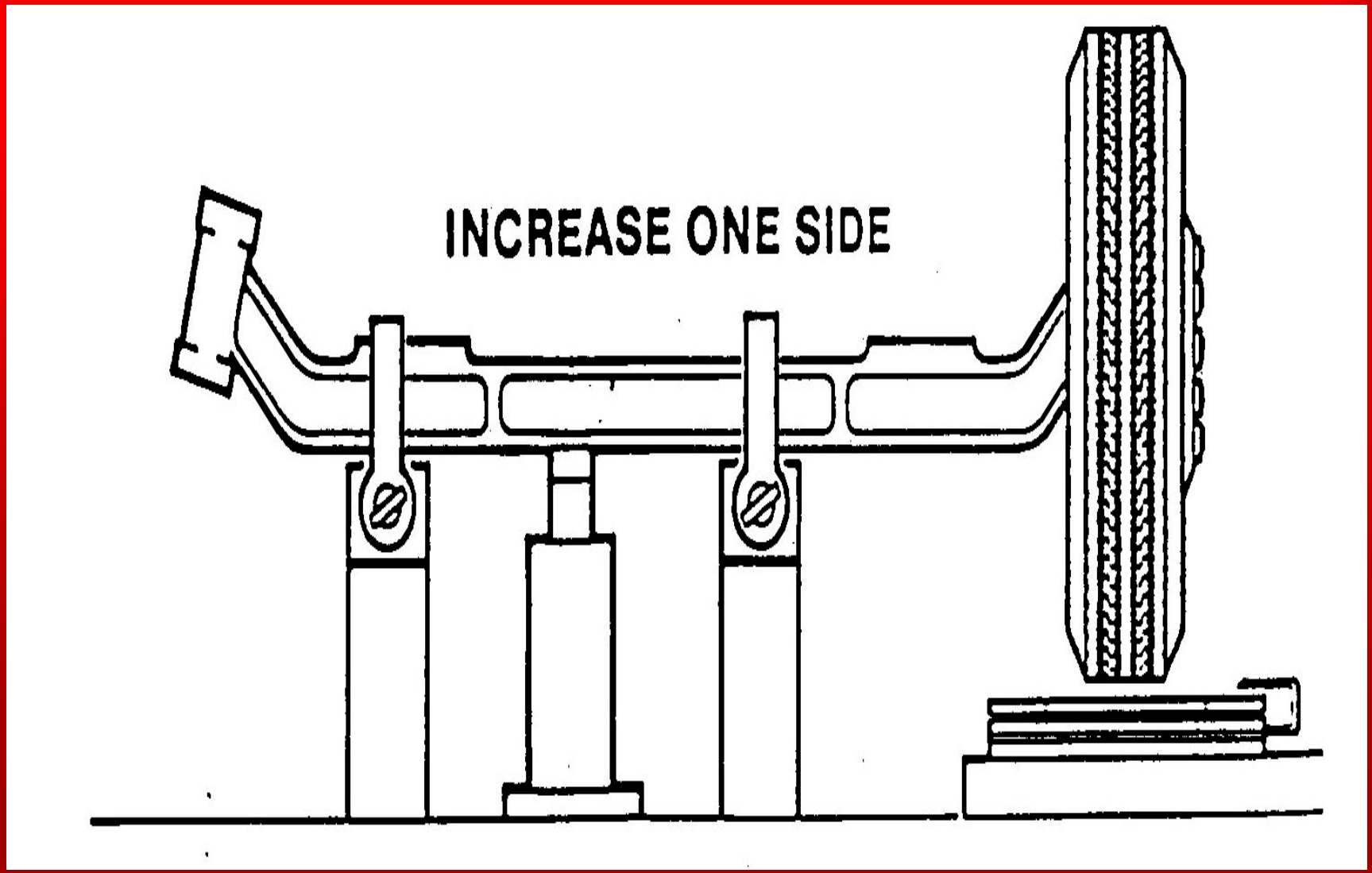


FIGURE 4-33

Camber Increase Both Sides



Camber Increase One Side



Caster Decrease

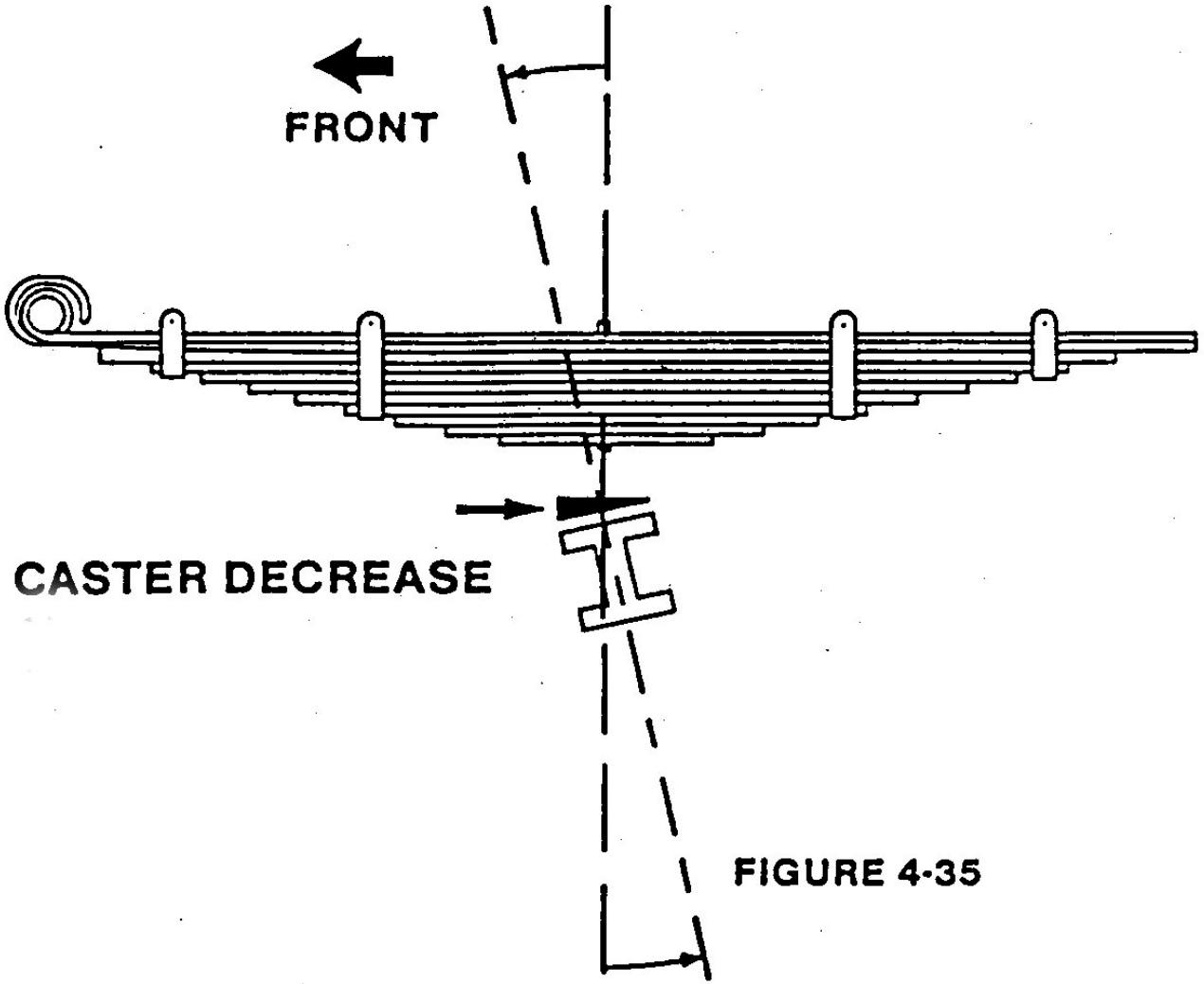


FIGURE 4-35

Caster Increase

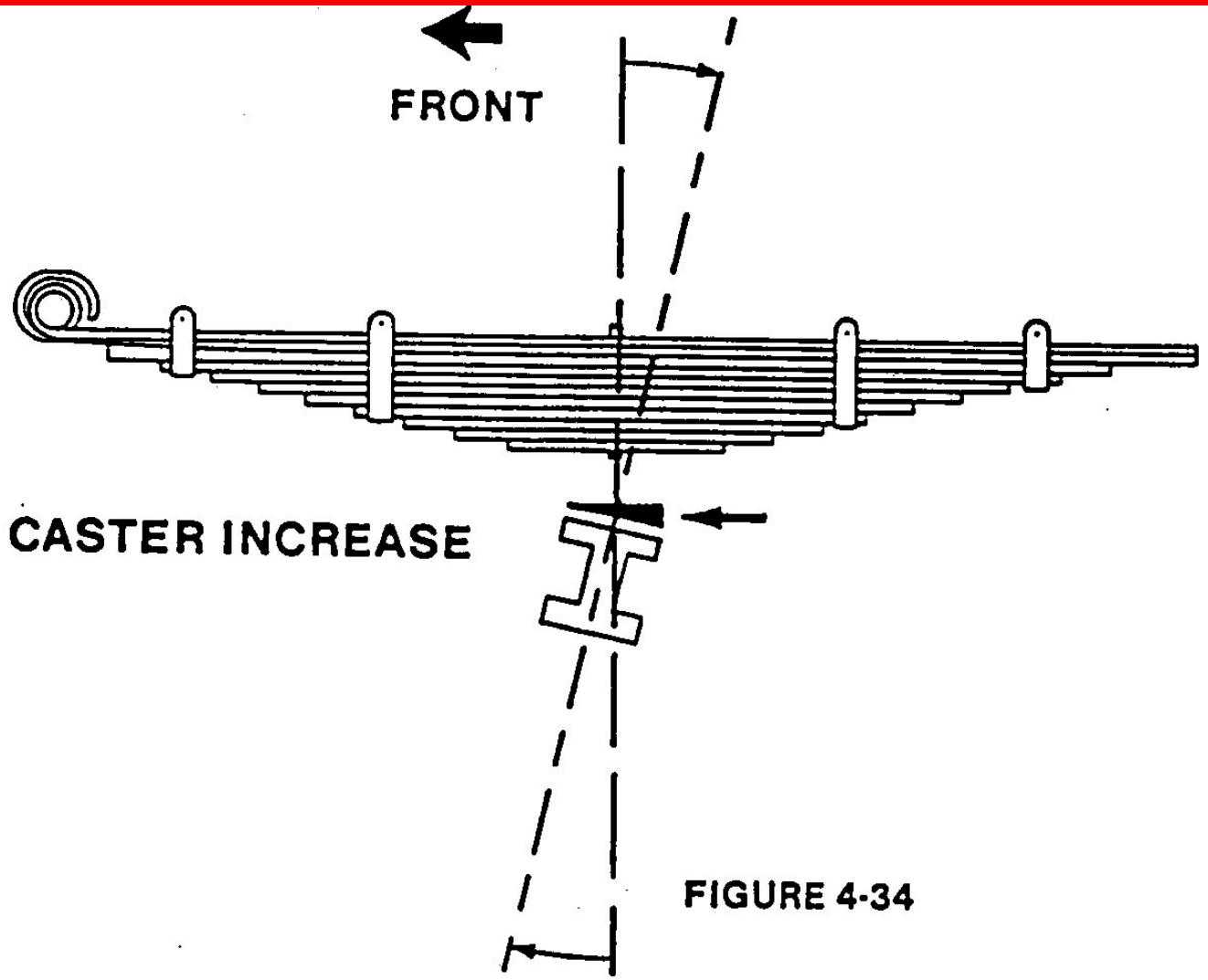


FIGURE 4-34

Caster Twist

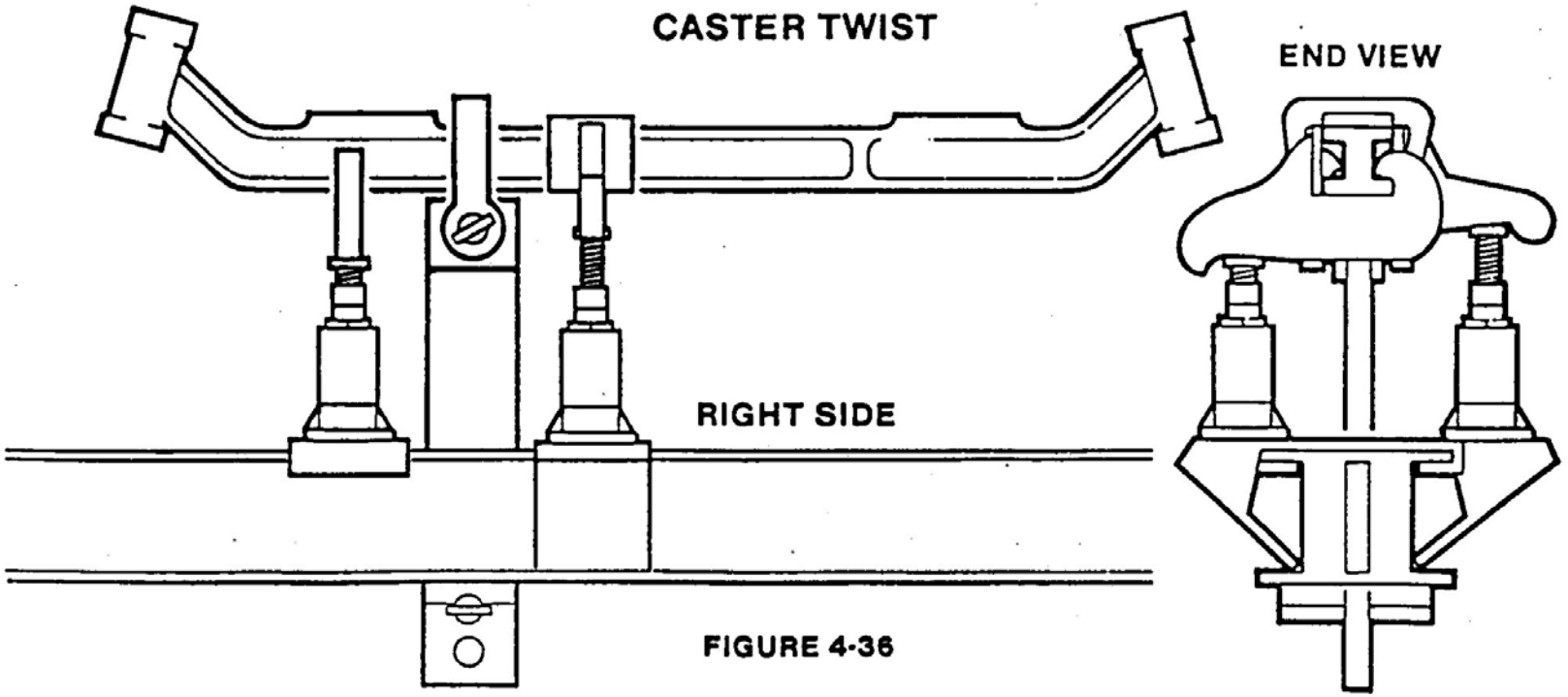


FIGURE 4-36

Front Inclined Axle/Centerpoint Axle

INCLINED AXLE (STANDARD)

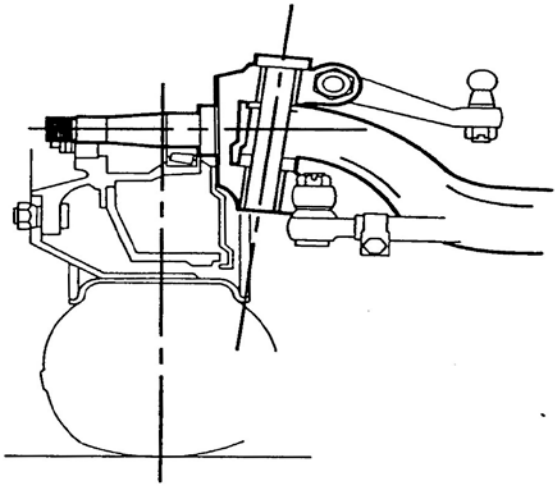


FIGURE 4-19
(ROCKWELL)

CENTERPOINT AXLE

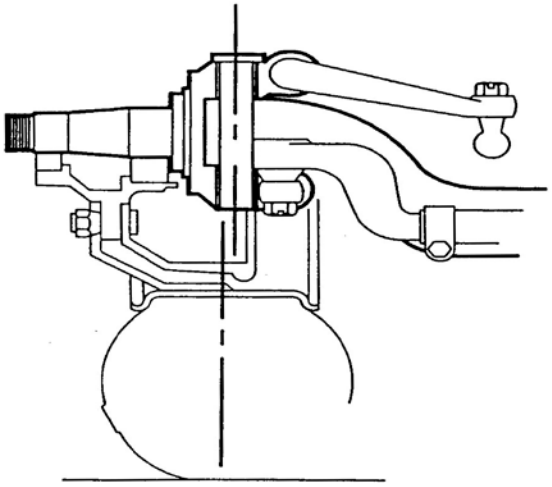


FIGURE 4-20
(ROCKWELL)

Axle Offset and Setback

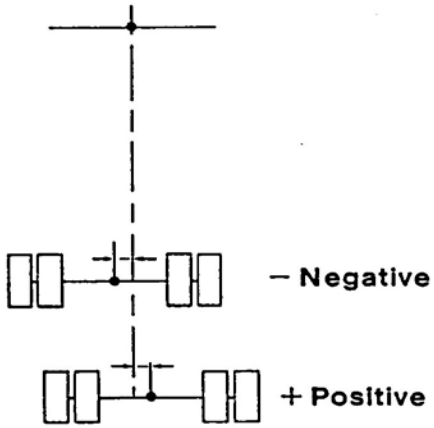


FIGURE 3-49

SETBACK

ition: The angle formed by the geometric centerline and a line perpendicular to the front axle.

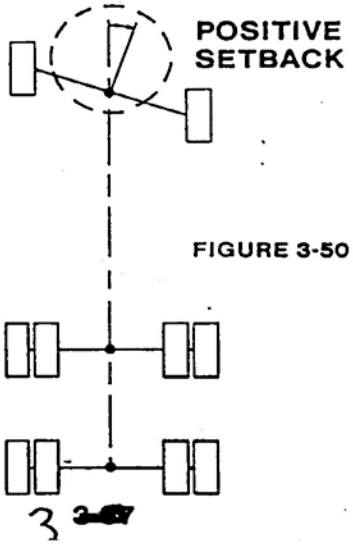


FIGURE 3-50

Front Air Ride Shim Adjustment

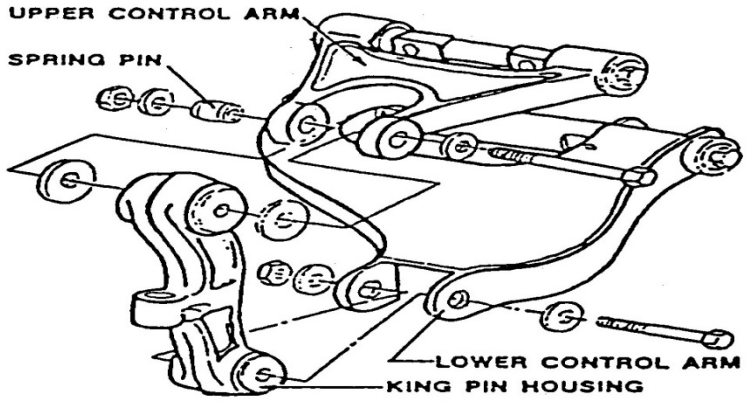


FIGURE 1-2 (GM RTS)

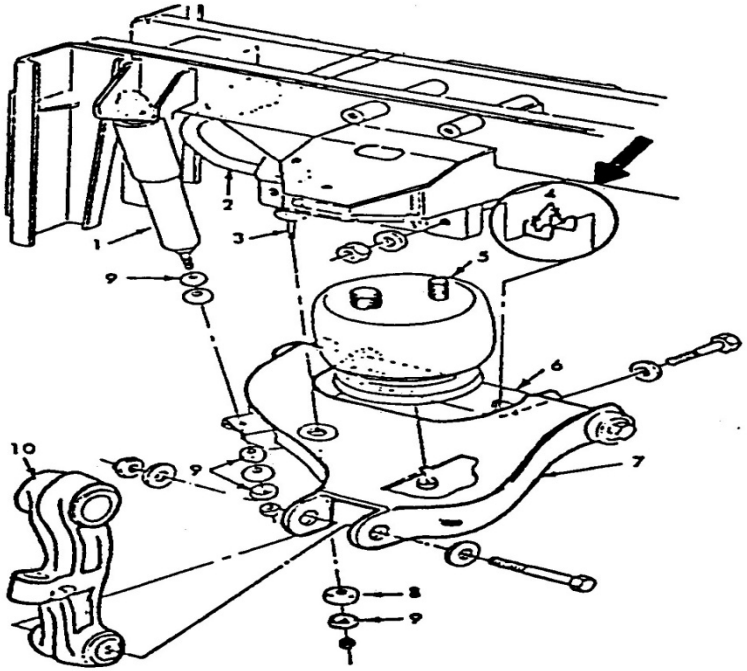


FIGURE 1-3
(GM RTS)

L2

Front Torsilastic Suspension

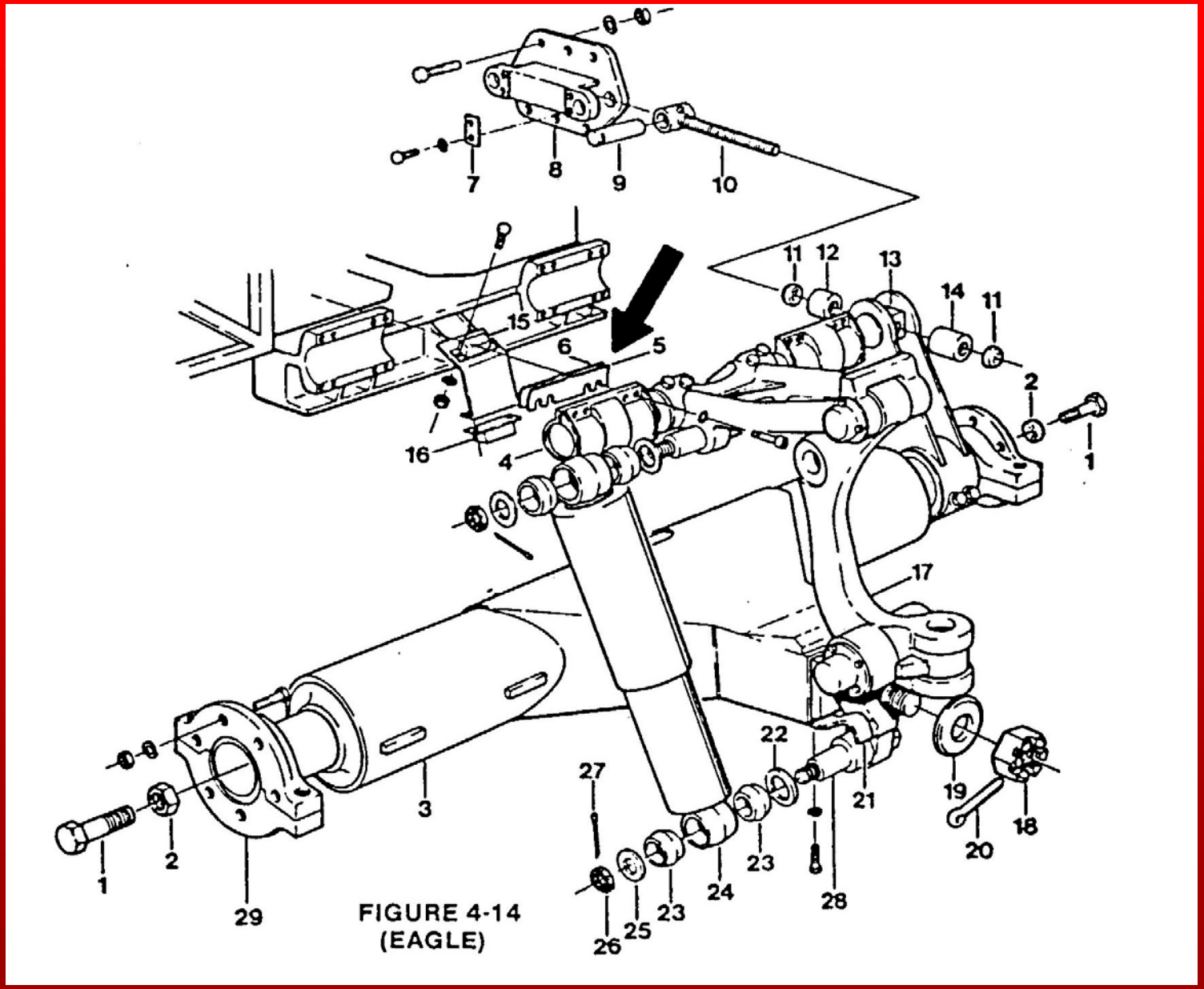


FIGURE 4-14
(EAGLE)

Hendrickson Four Spring

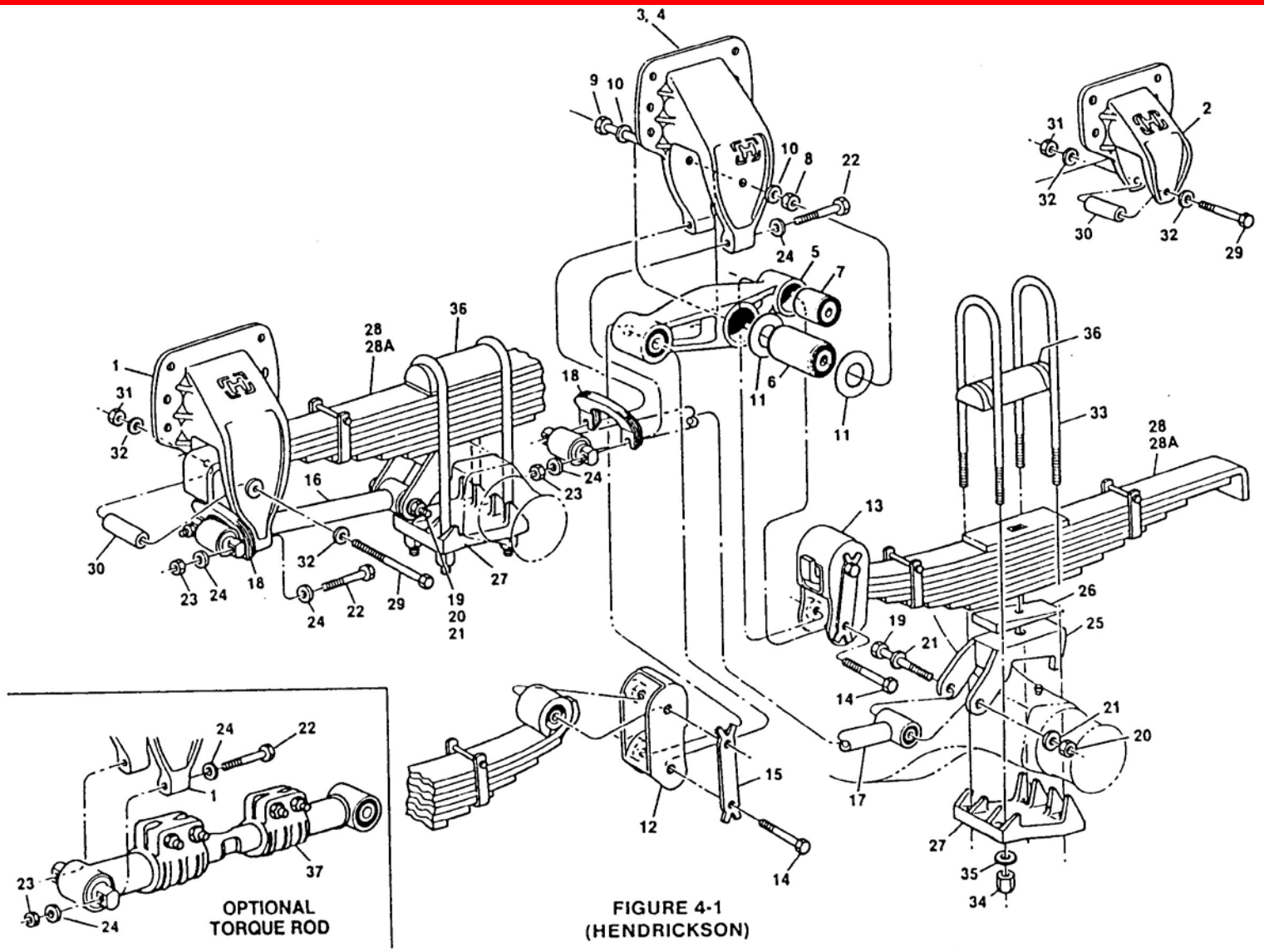


FIGURE 4-1
(HENDRICKSON)

Reyco Eccentric

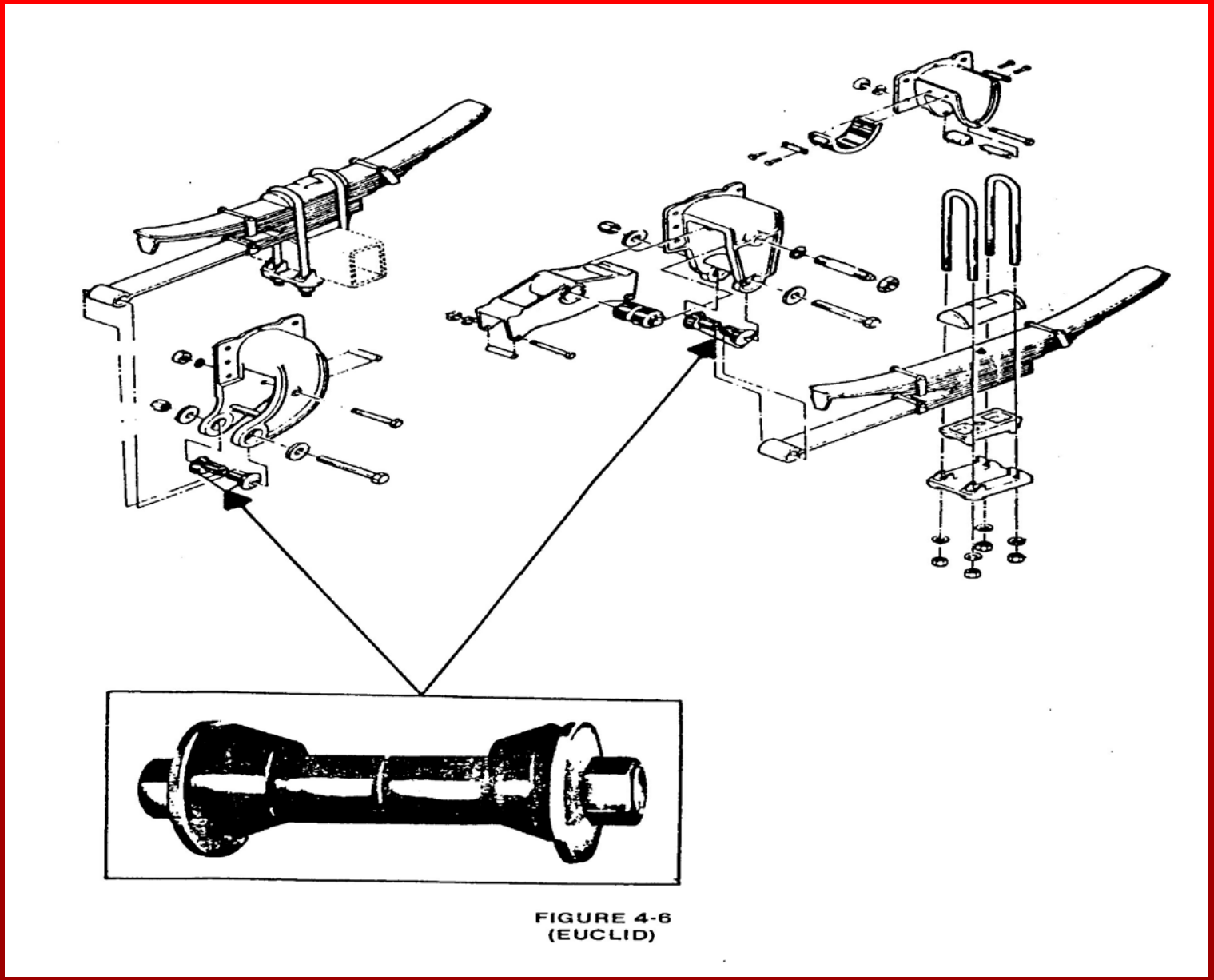


FIGURE 4-6
(EUCLID)

Shim Adjustment (Freightliner)

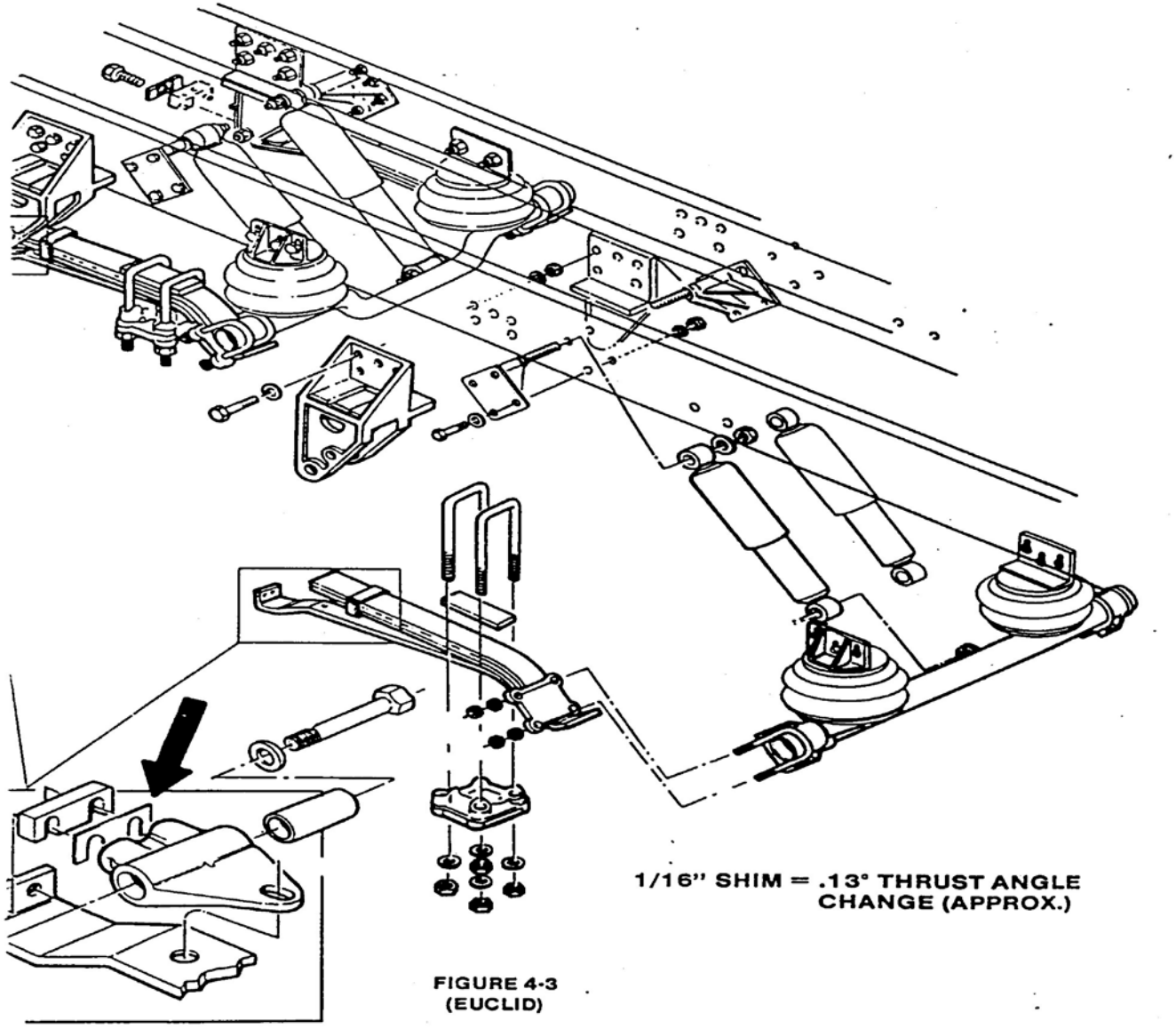


FIGURE 4-3
(EUCLID)

Four Spring Shim Adjustment

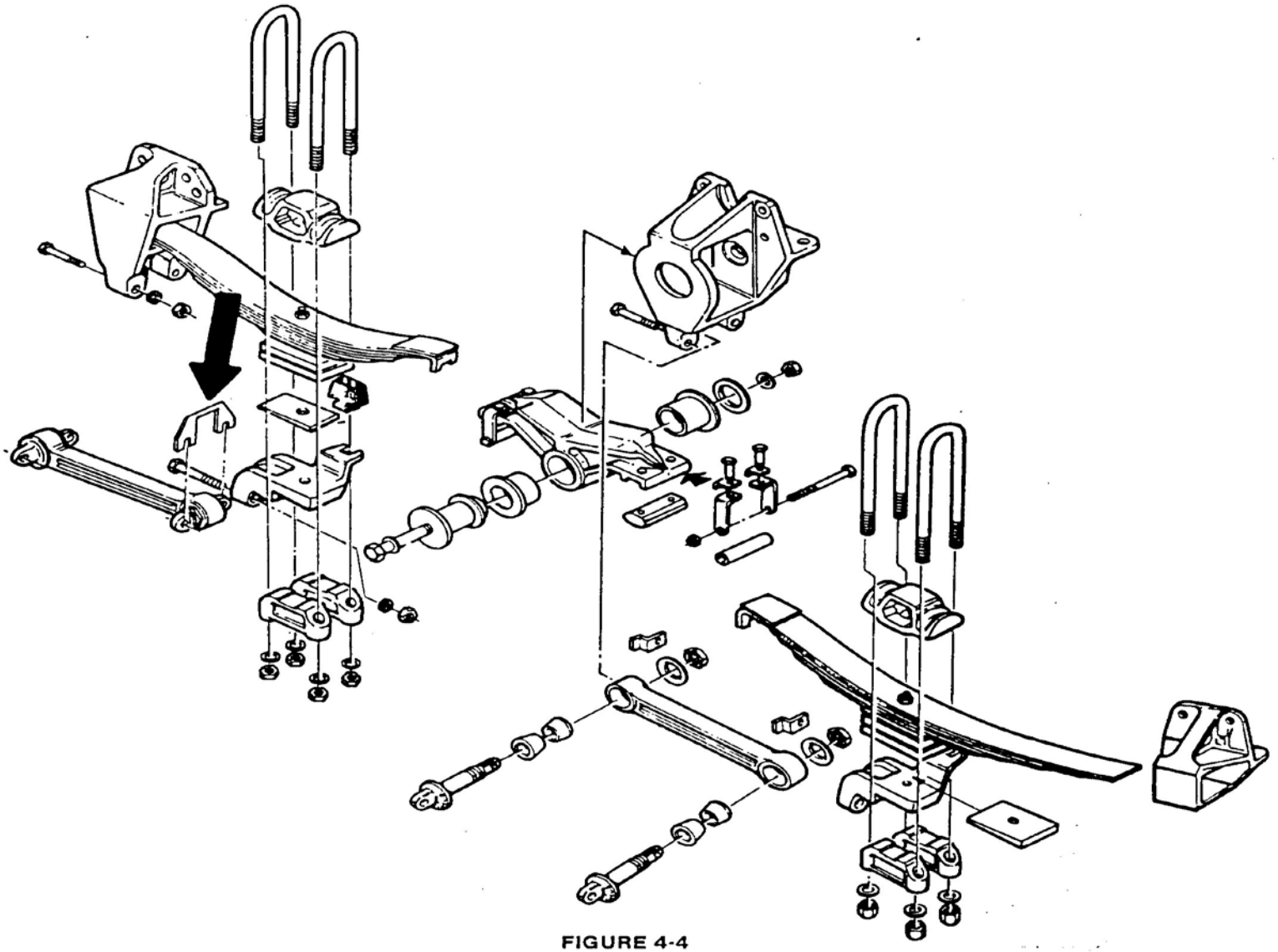


FIGURE 4-4
(EUCLID)

Torque Rod Adjustment

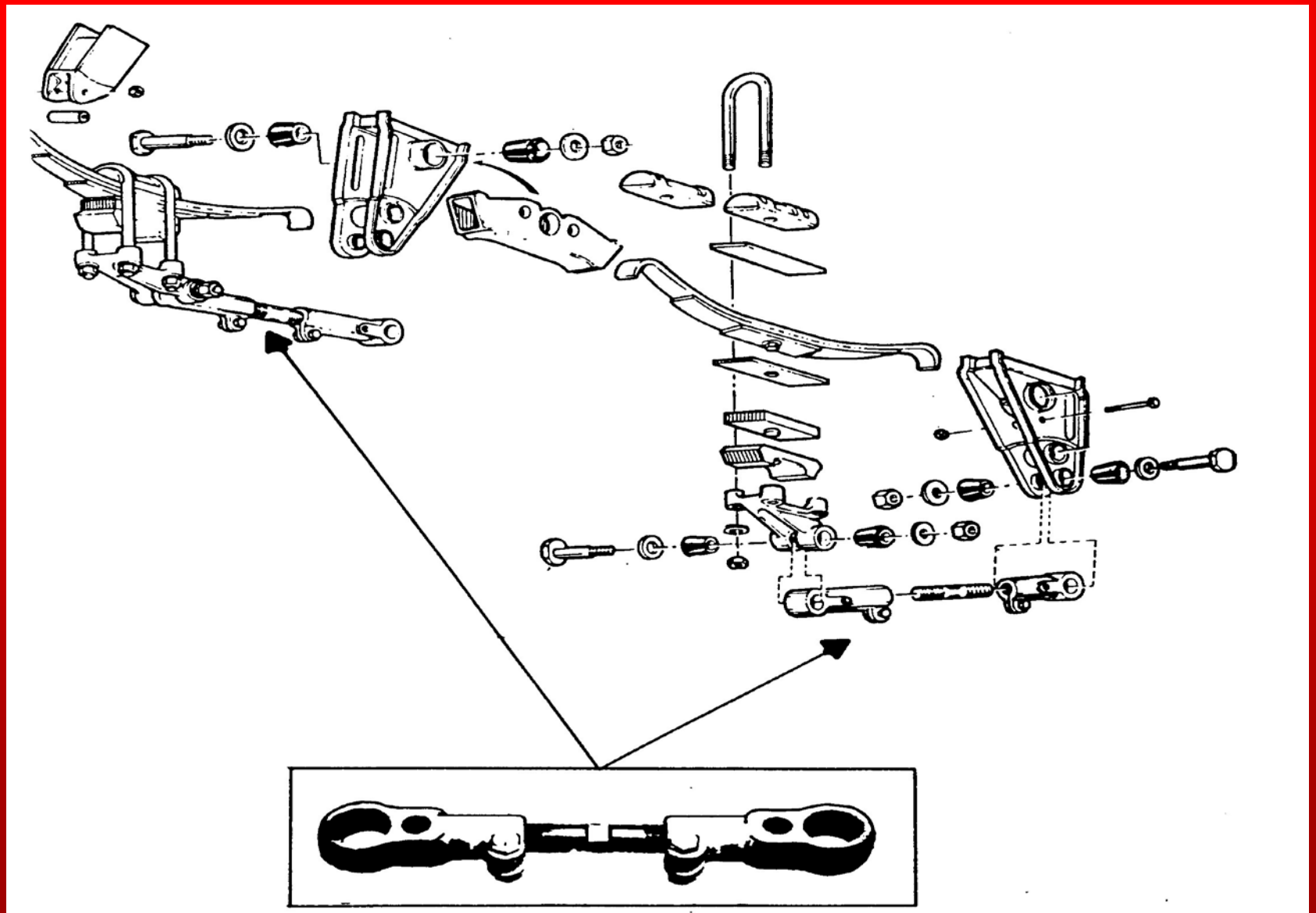


FIGURE 4-5
(EUCLID)

Insulator Pad Adjustments (Mack)

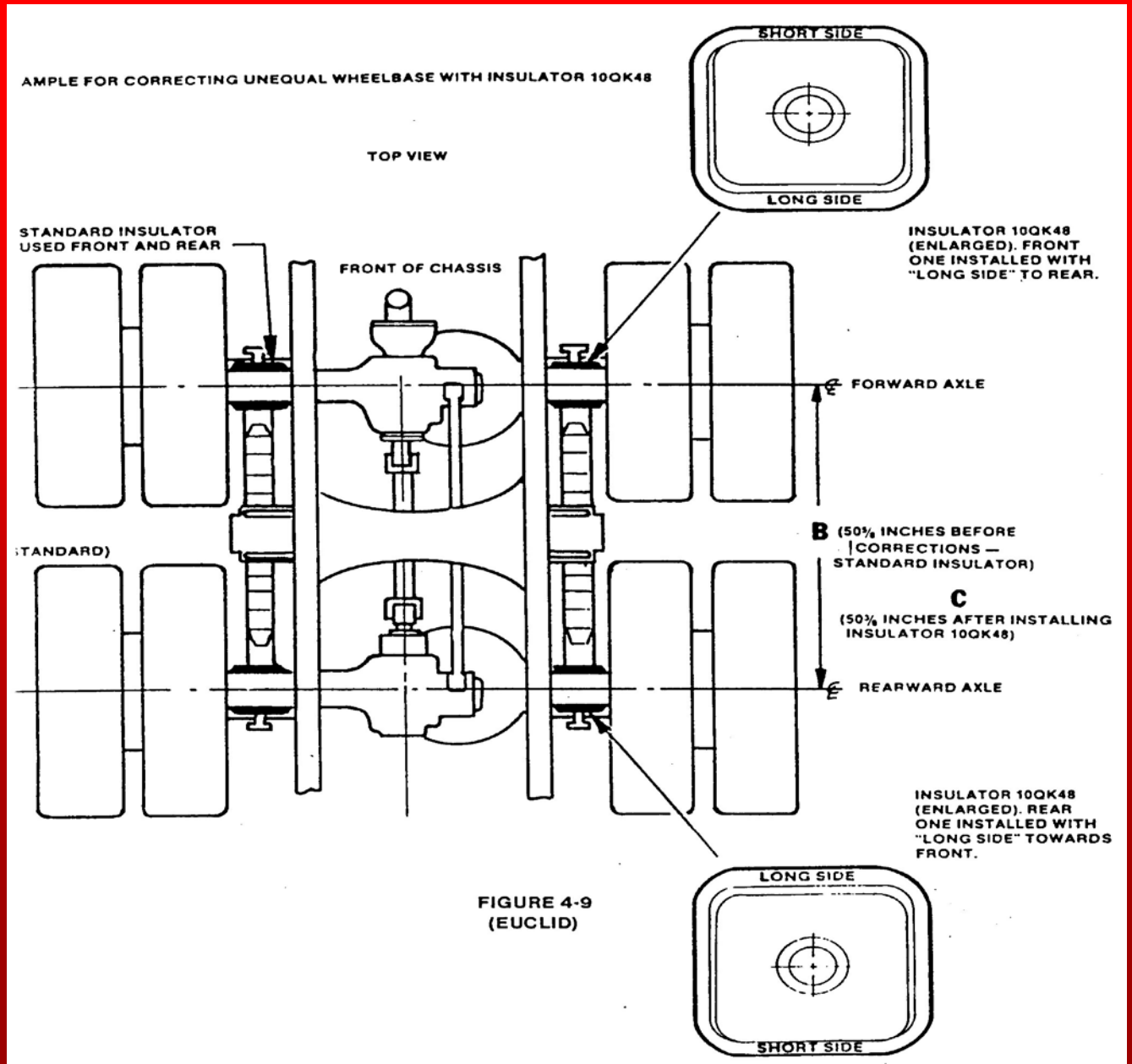


FIGURE 4-9
(EUCLID)

Rear Air Ride Suspension System

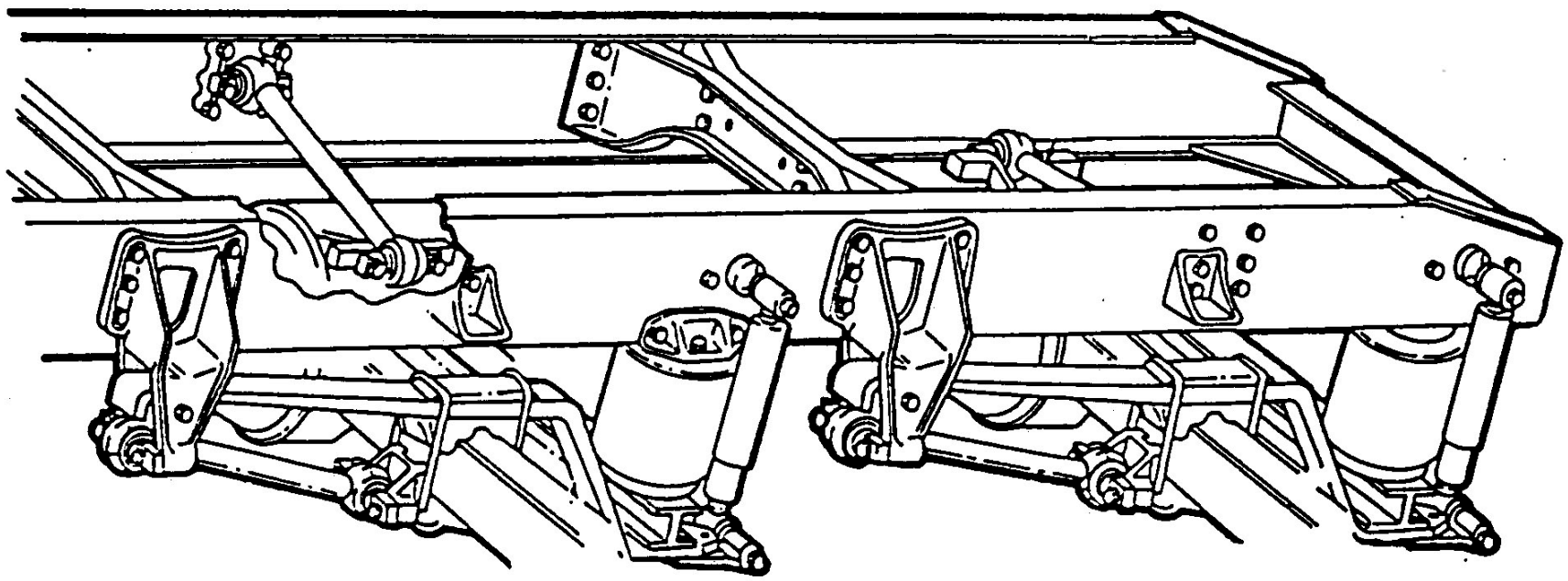


FIGURE 1-7
(INTERNATIONAL HARVESTER)
AIR LEAF

Neway Rear Air Suspension System

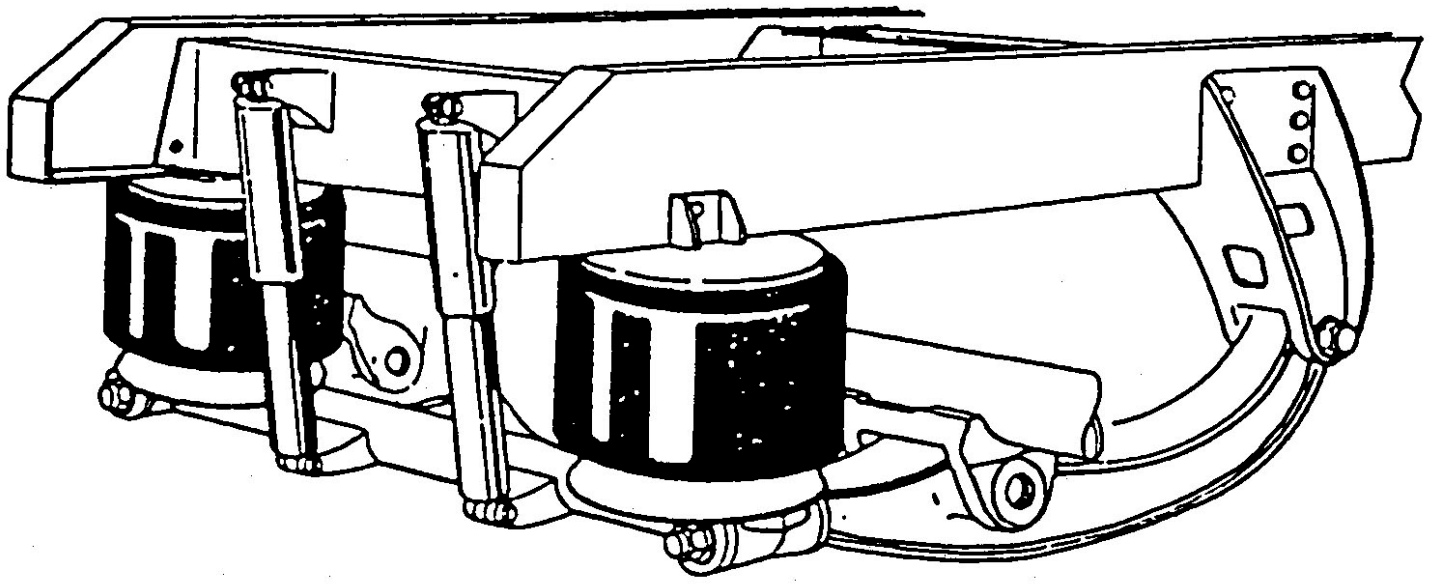


FIGURE 1-6
(NEWAY TRAILING ARM TYPE)

Hendrickson Air Ride Walking Beam

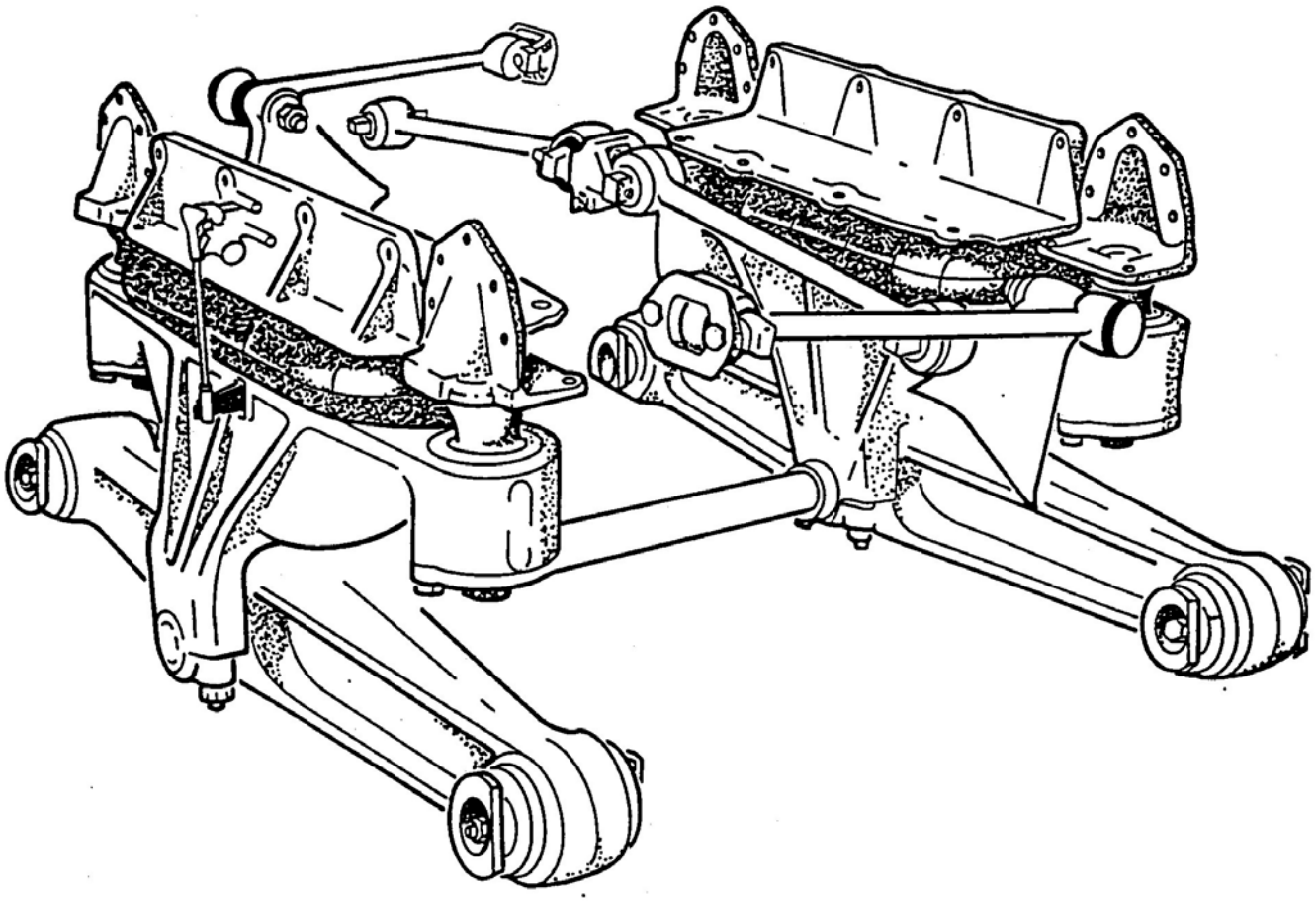


FIGURE 1-8
(HENDRICKSON)

Tandem Axle Four Spring Suspension

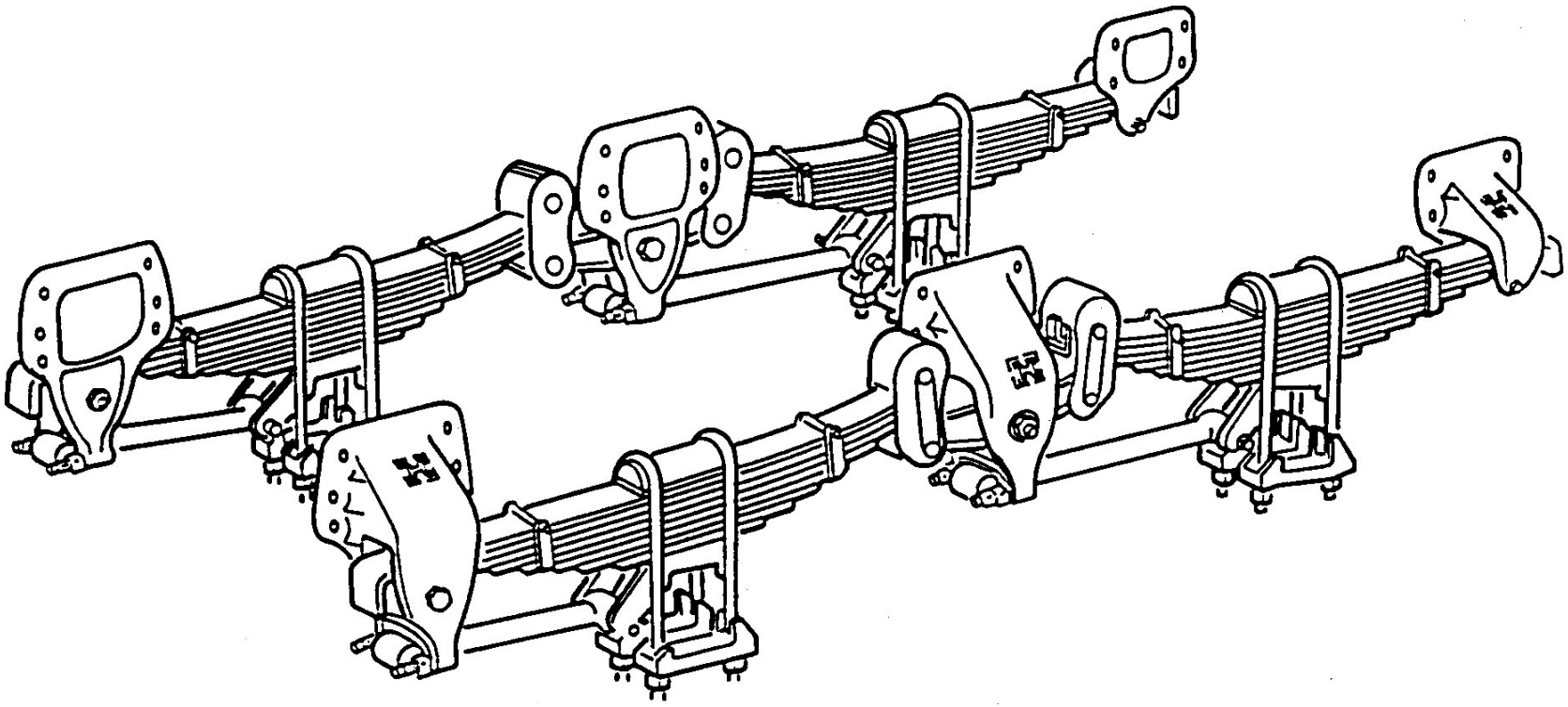
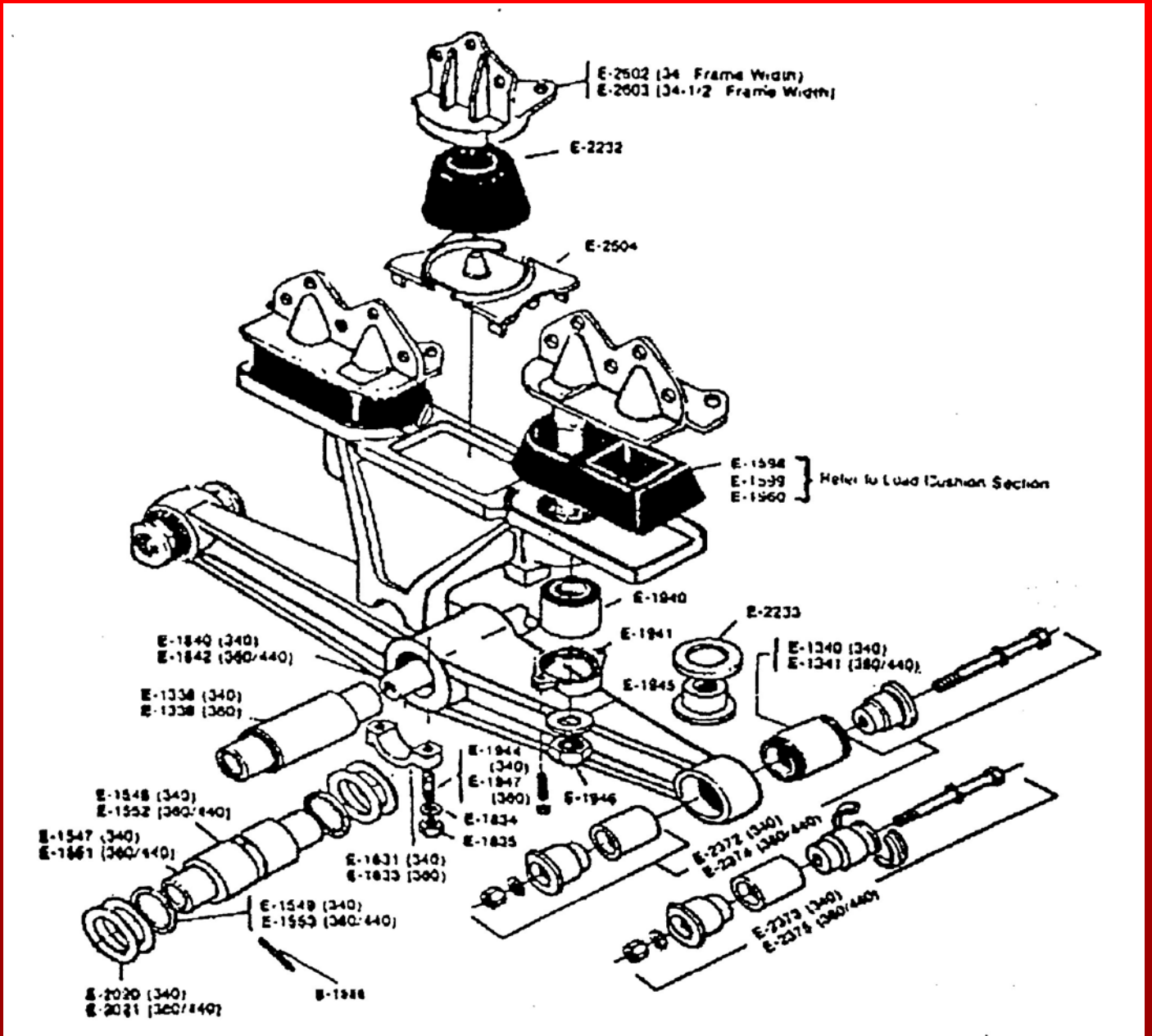
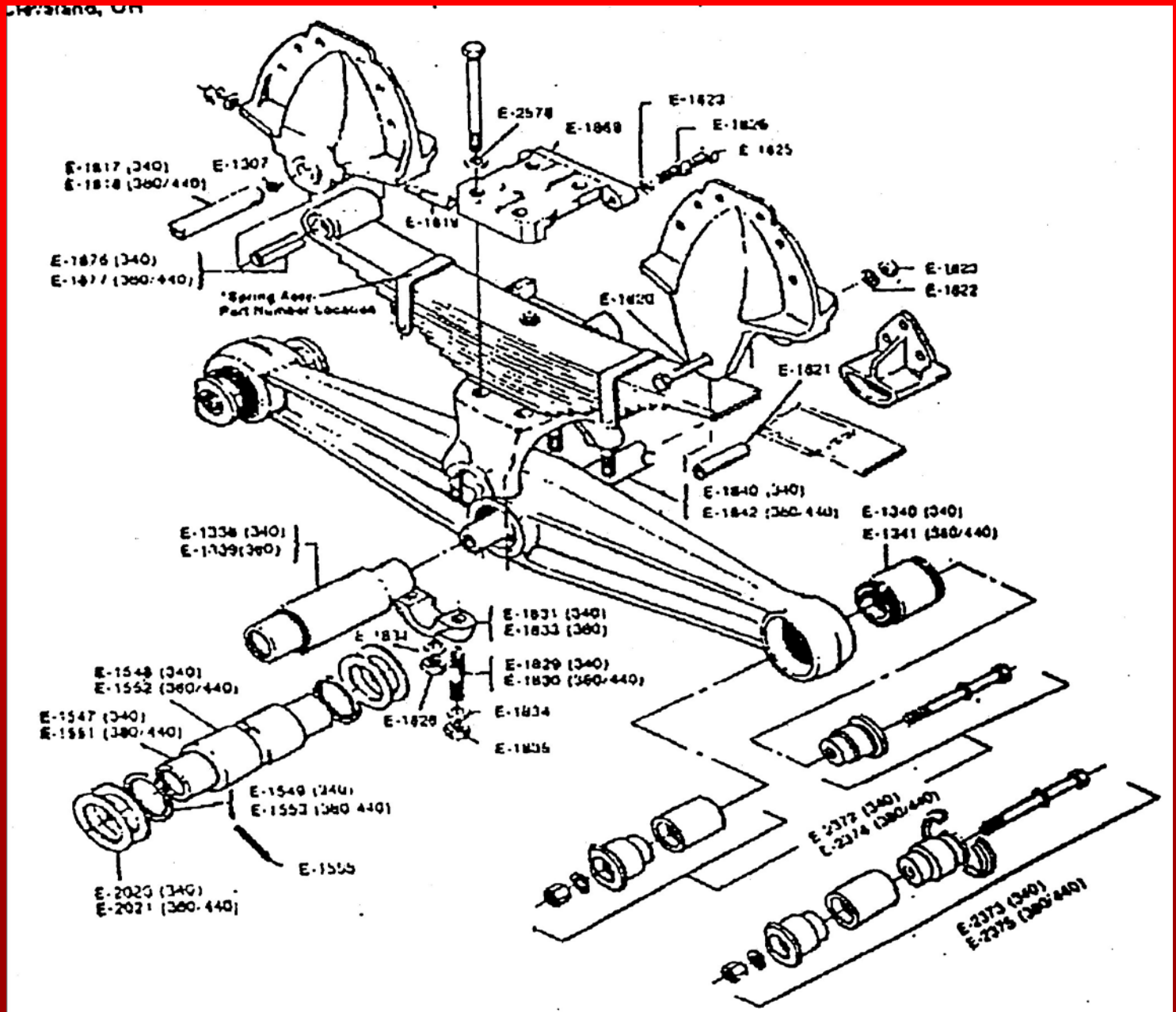


FIGURE 1-4
(HENDRICKSON)

Hendrickson RS 340/380/440



Hendrickson RT/RTE 340/380/440



Hendrickson Walking Beam

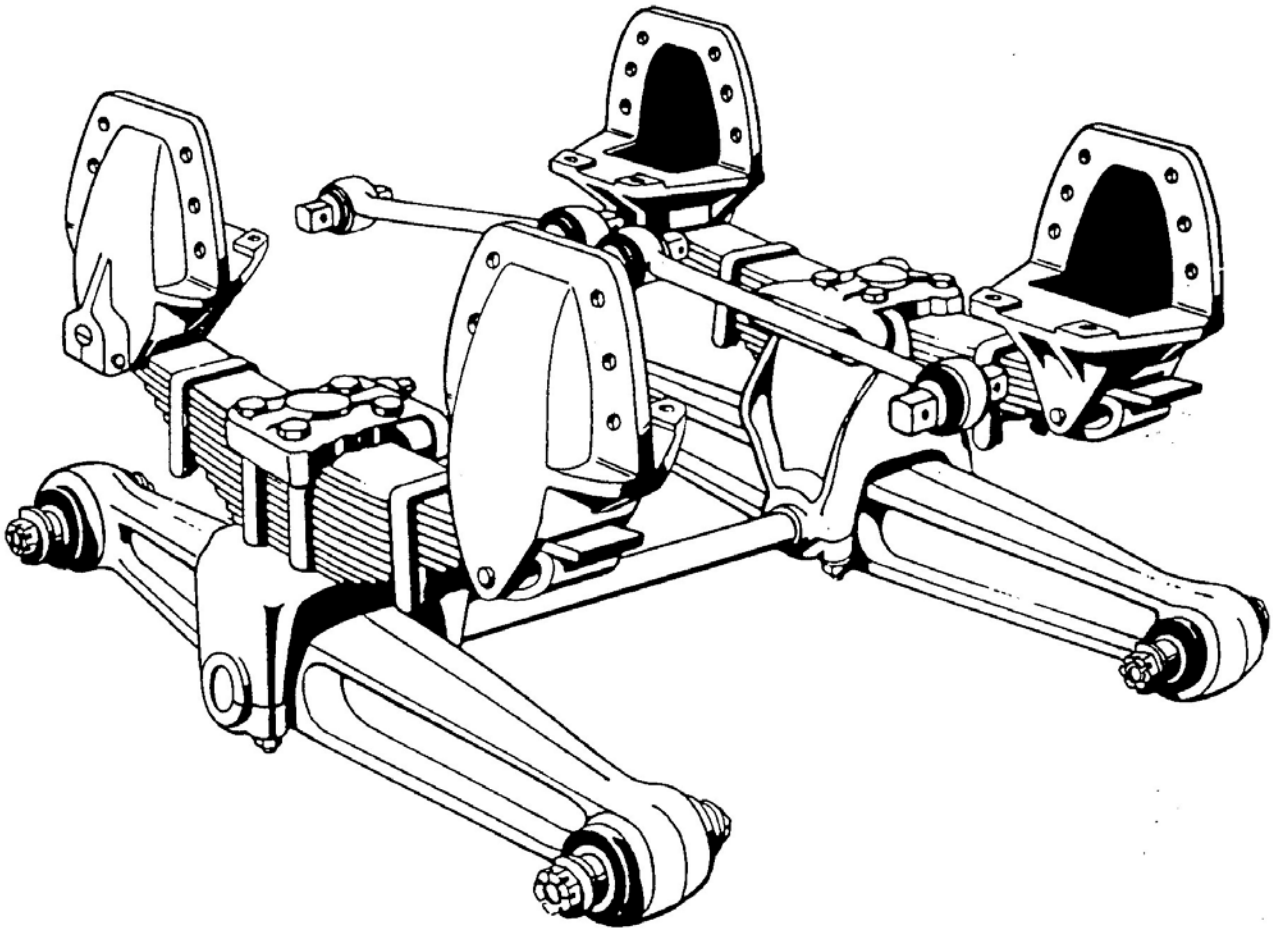


FIGURE 1-12
(HENDRICKSON)

Tapered Leaf Suspension (Mack)

TAPERED LEAF

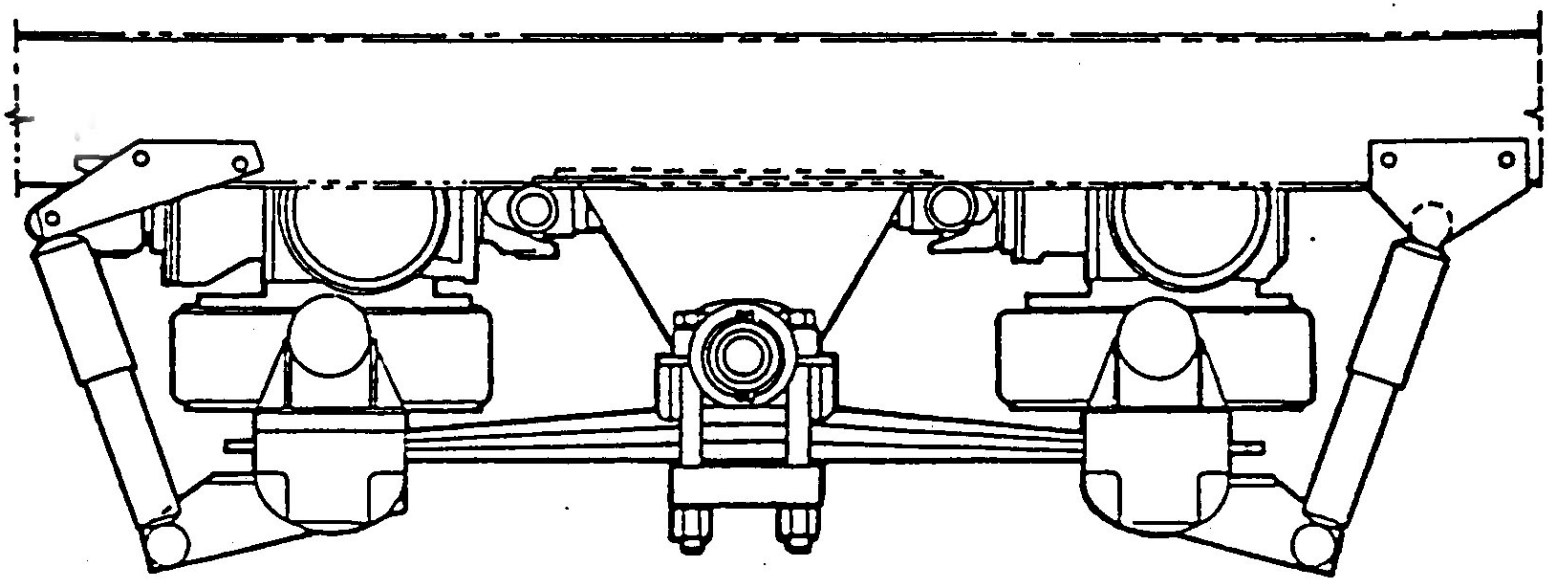
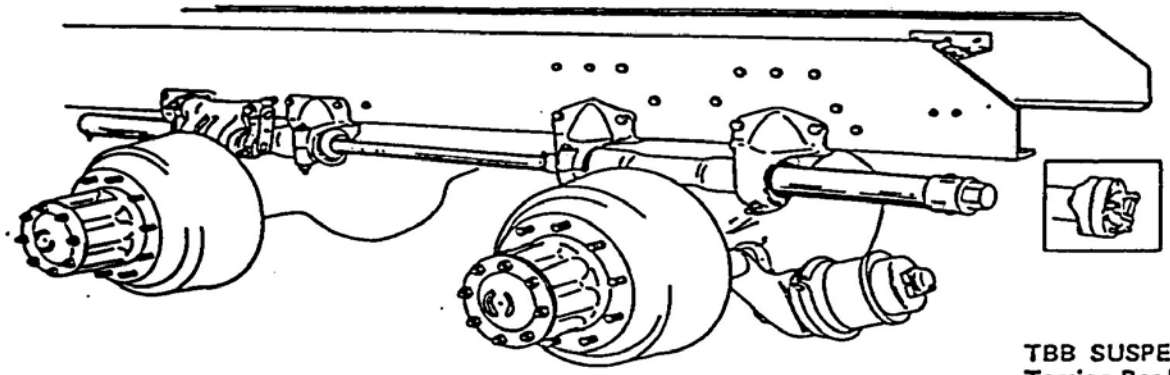
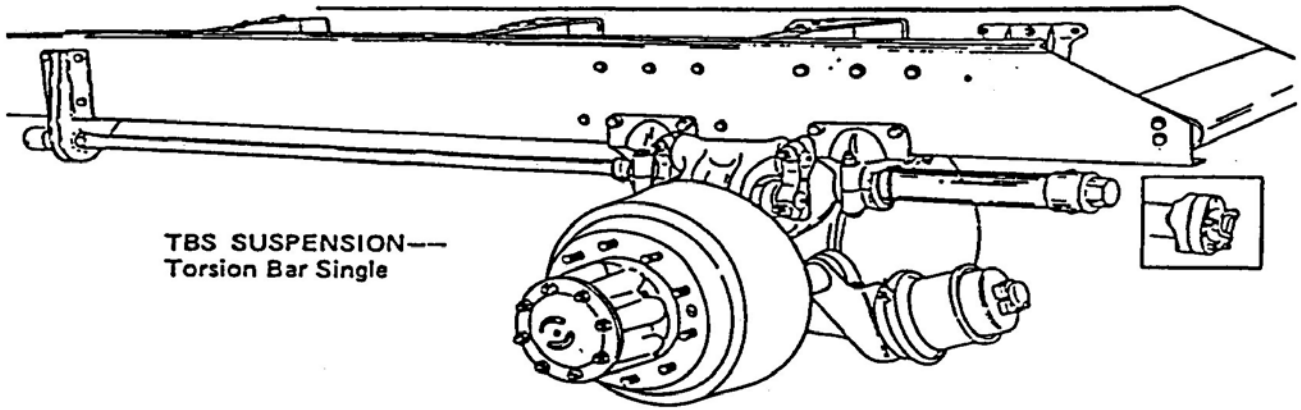


FIGURE 1-10
(MACK)

Rear Torsion Bar Suspension



TBB SUSPENSION—
Torsion Bar Bogie



TBS SUSPENSION—
Torsion Bar Single

FIGURE 1-11 (KENWORTH)

Camel Back Suspension (Mack)

CAMEL BACK

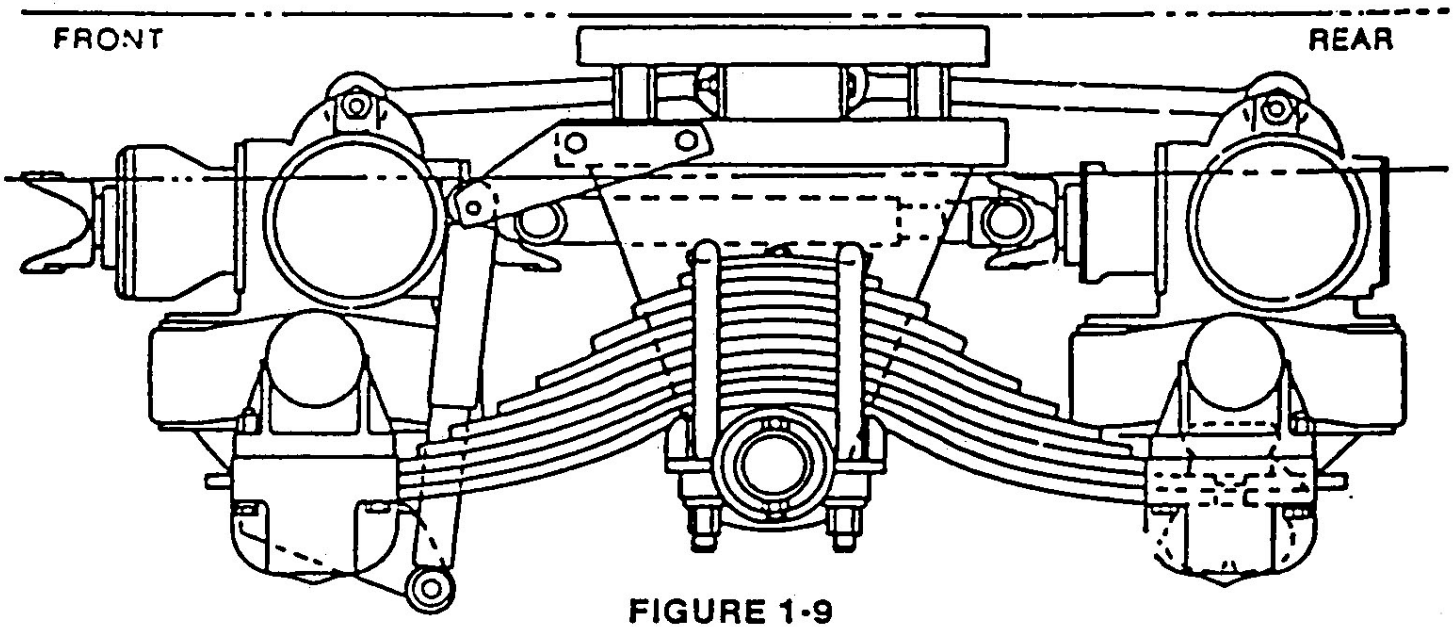


FIGURE 1-9
(MACK)

Camelback Insulator Pad

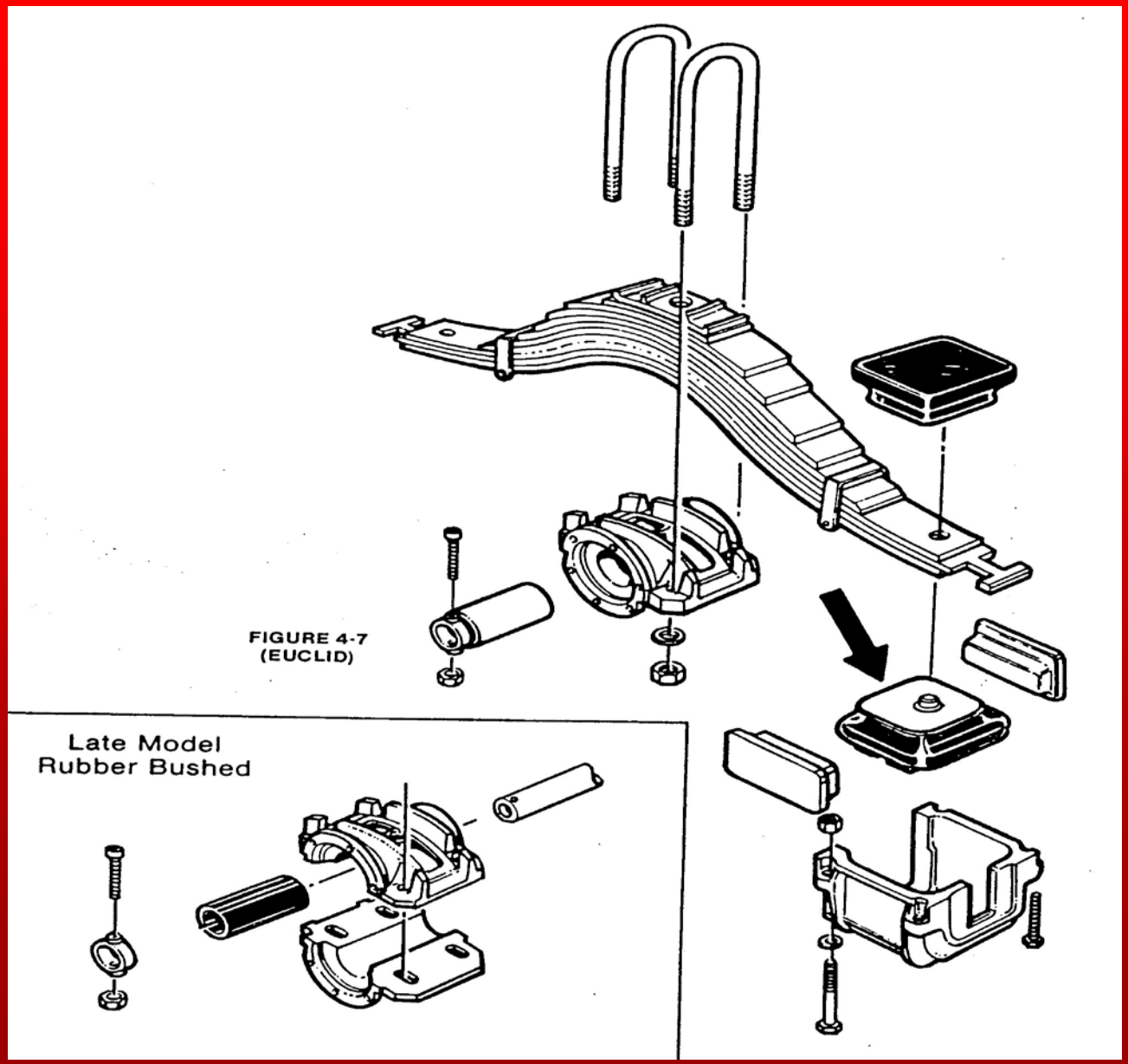


FIGURE 4-7
(EUCLID)

Two Spring Rear Suspension

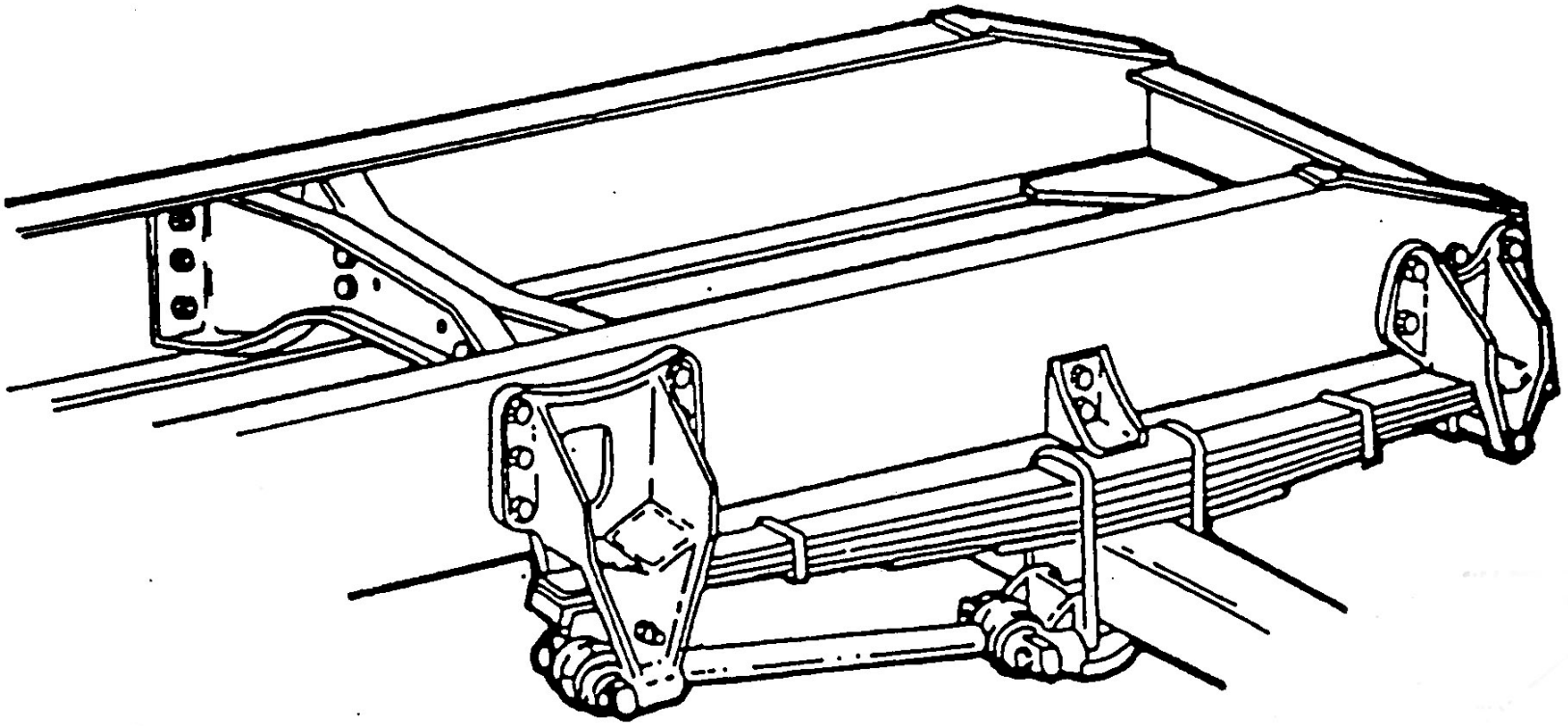


FIGURE 1-5
(INTERNATIONAL HARVESTER)

Air Ride Shim Adjustment

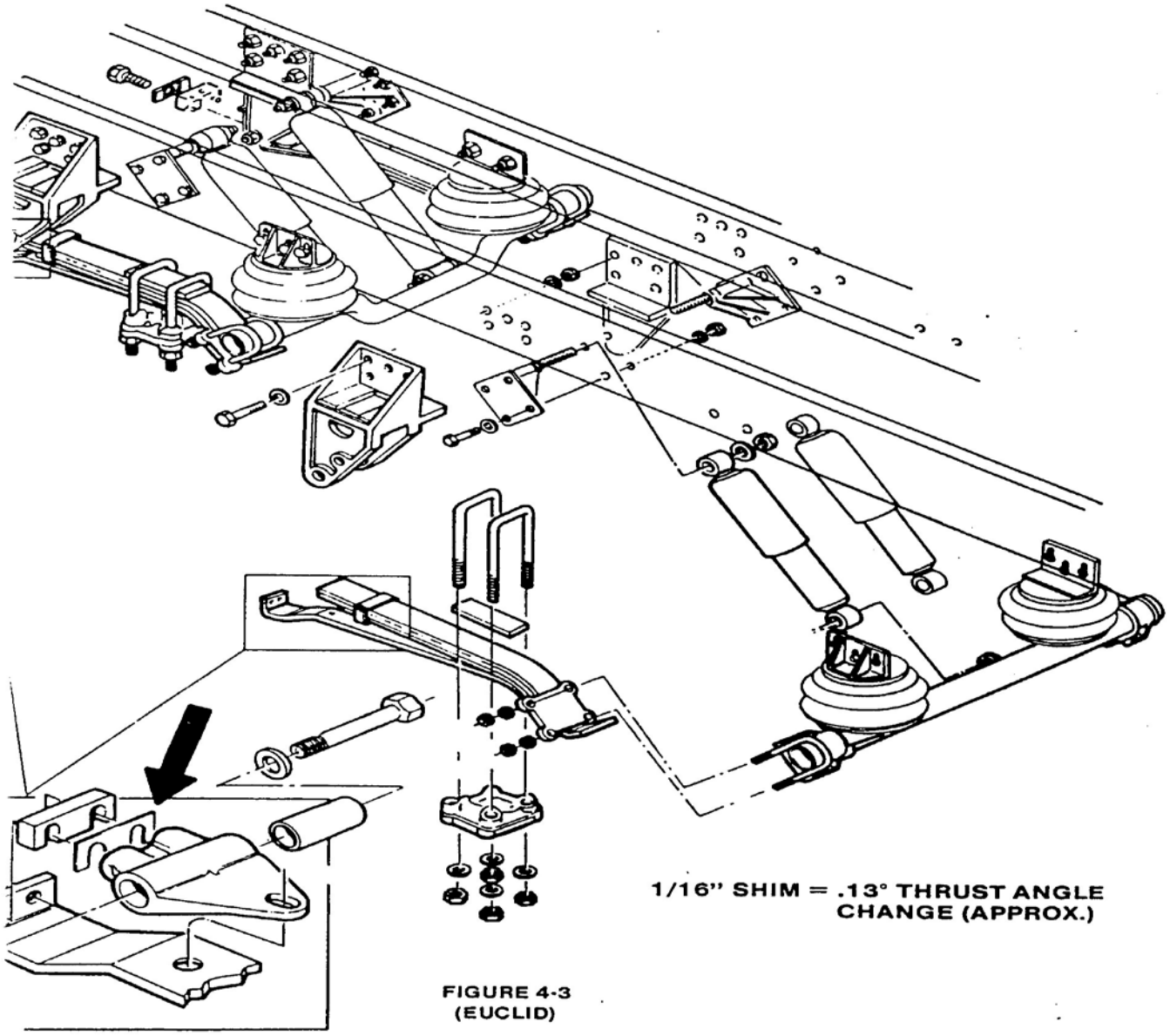


FIGURE 4-3
(EUCLID)

Bogie Axle Tapered Shim

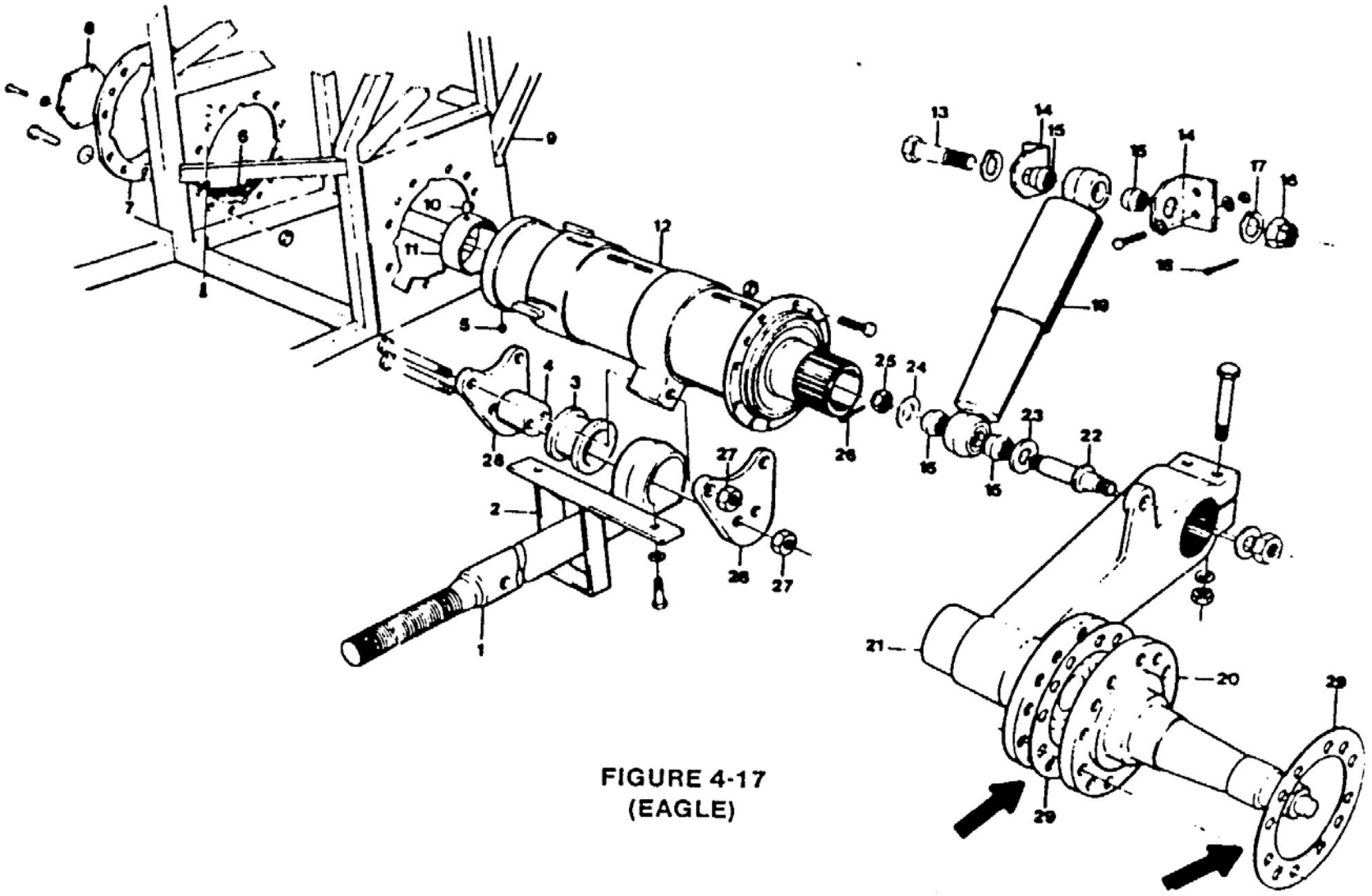


FIGURE 4-17
(EAGLE)

Walking Beam (Parts Breakdown)

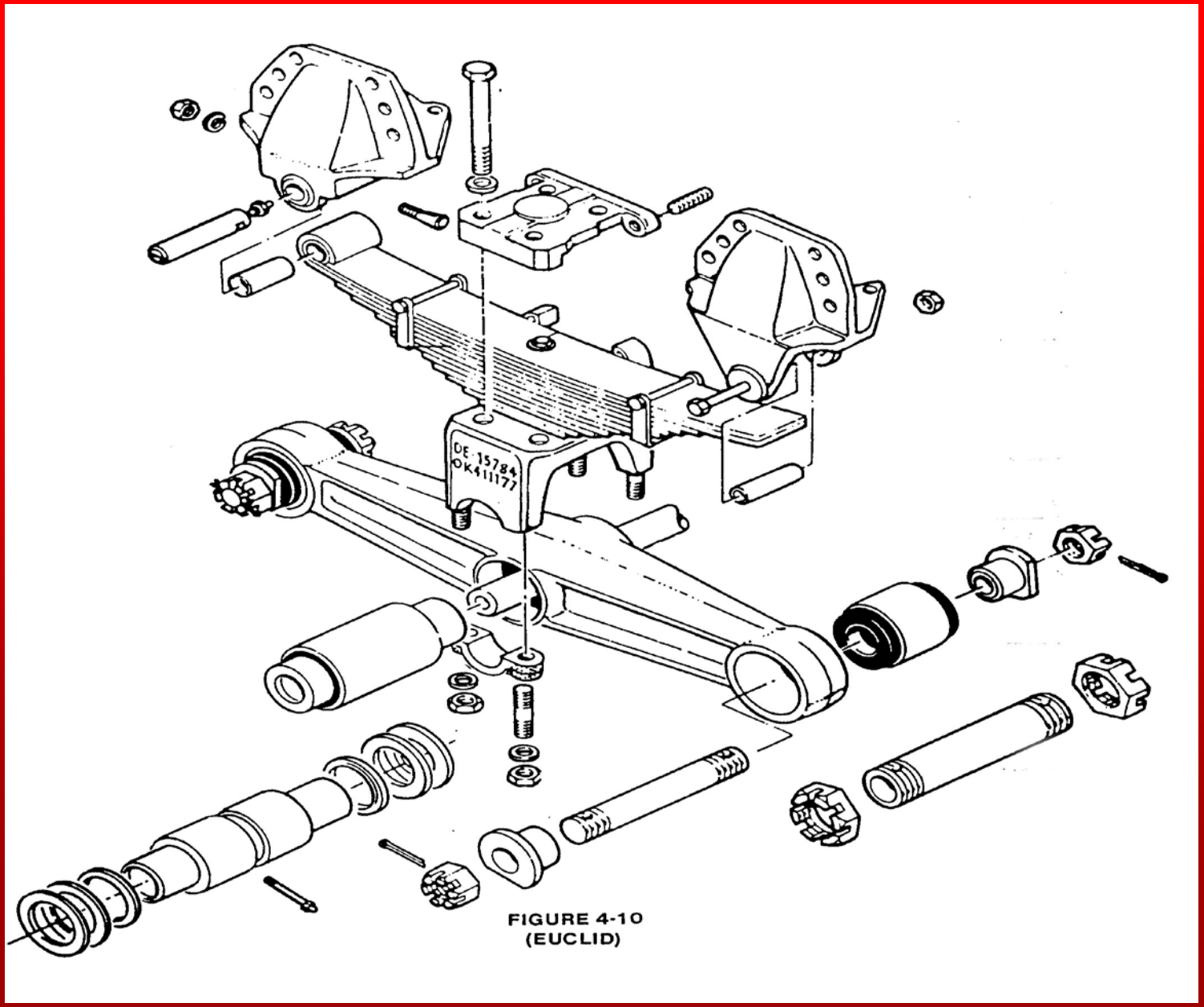
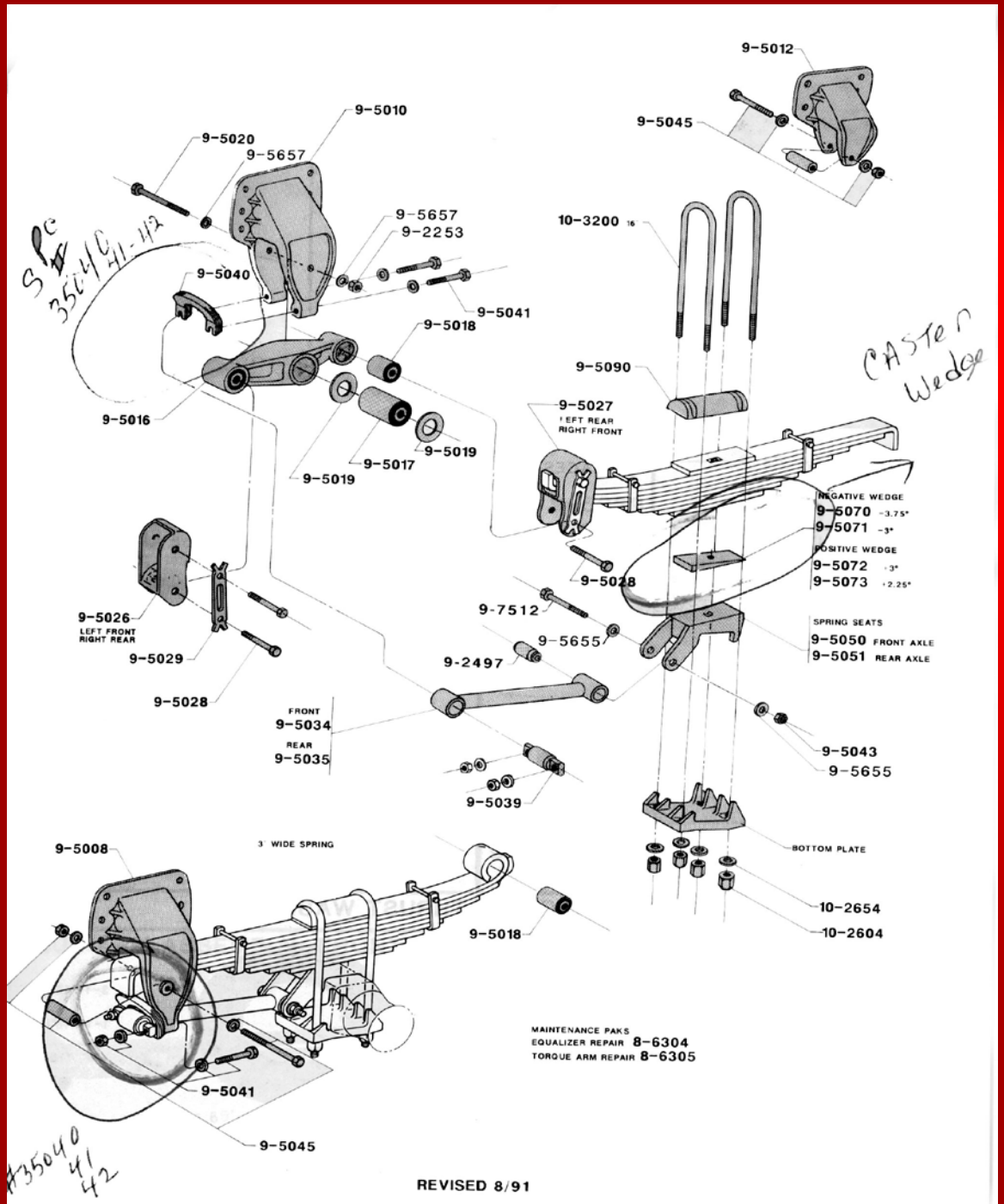
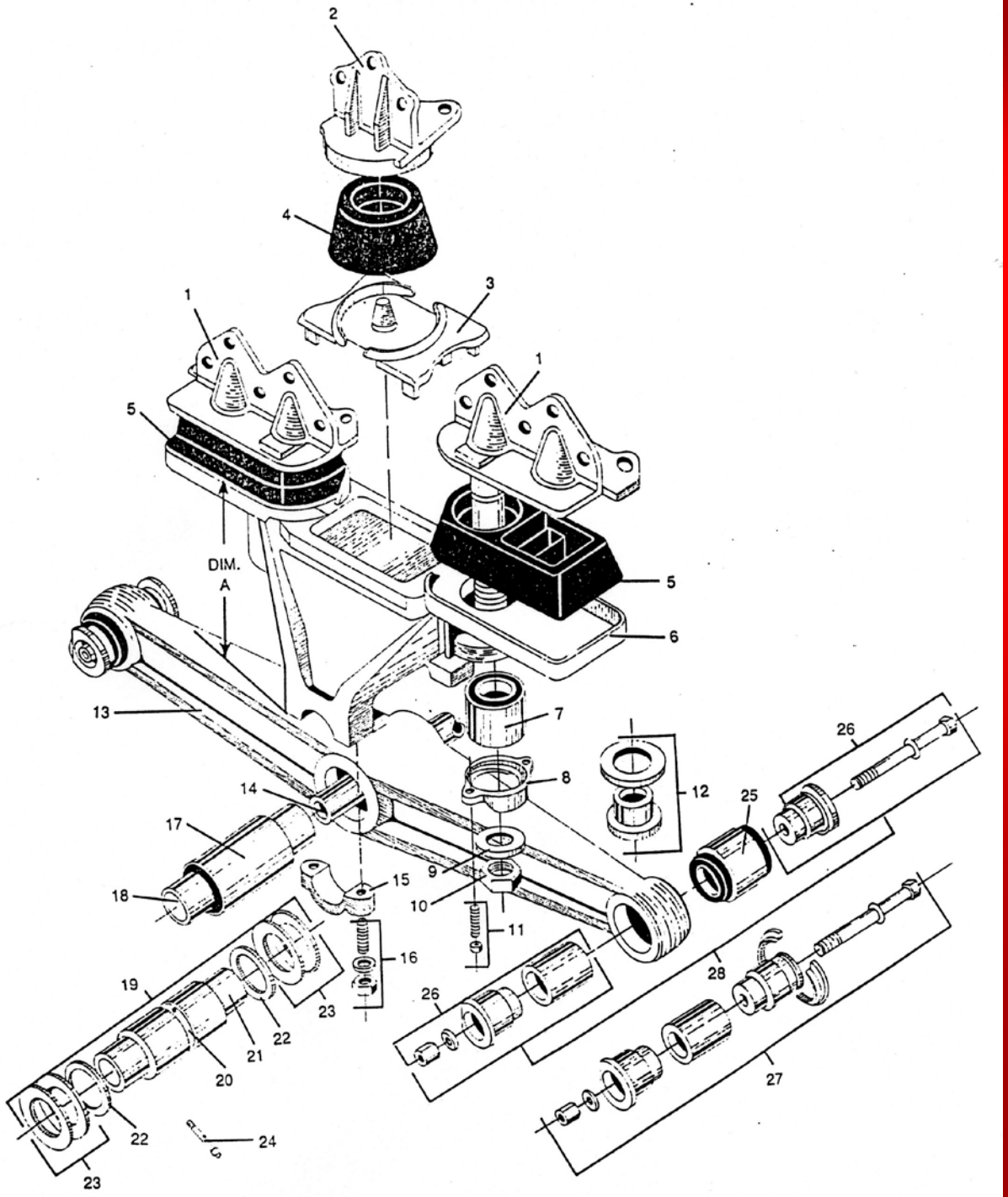


FIGURE 4-10
(EUCLID)

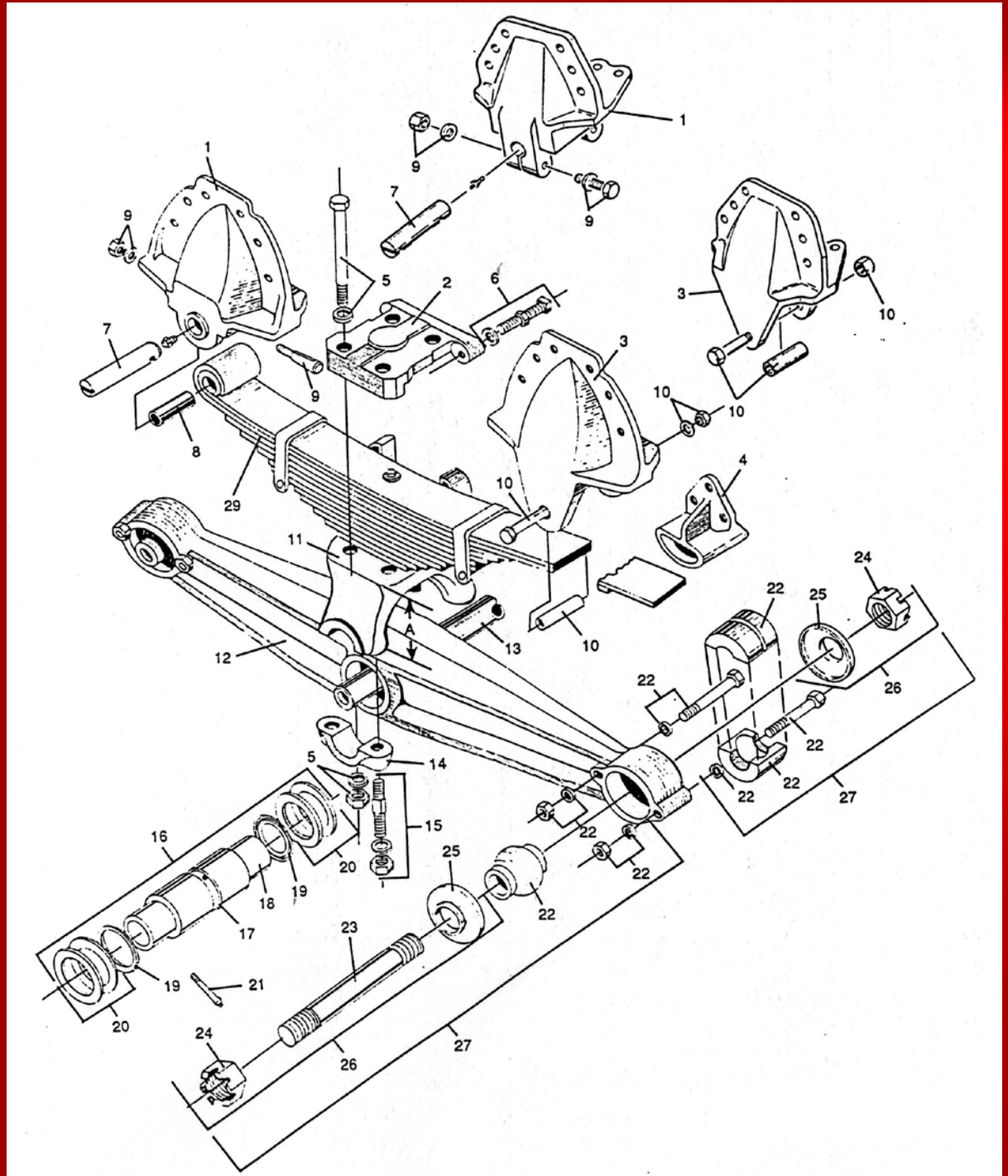
Hendrickson E4



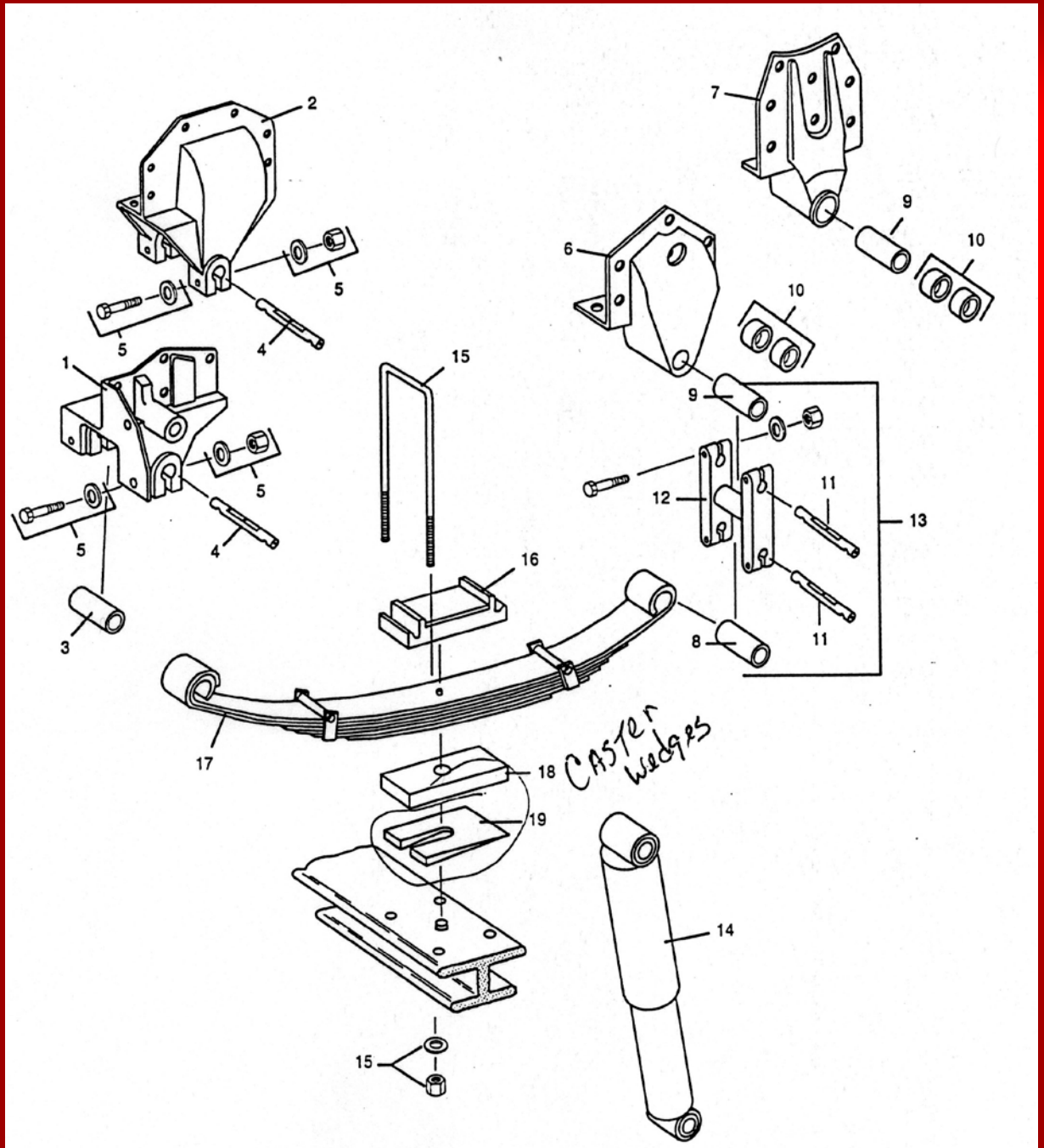
Hendrickson Rubber Cushion



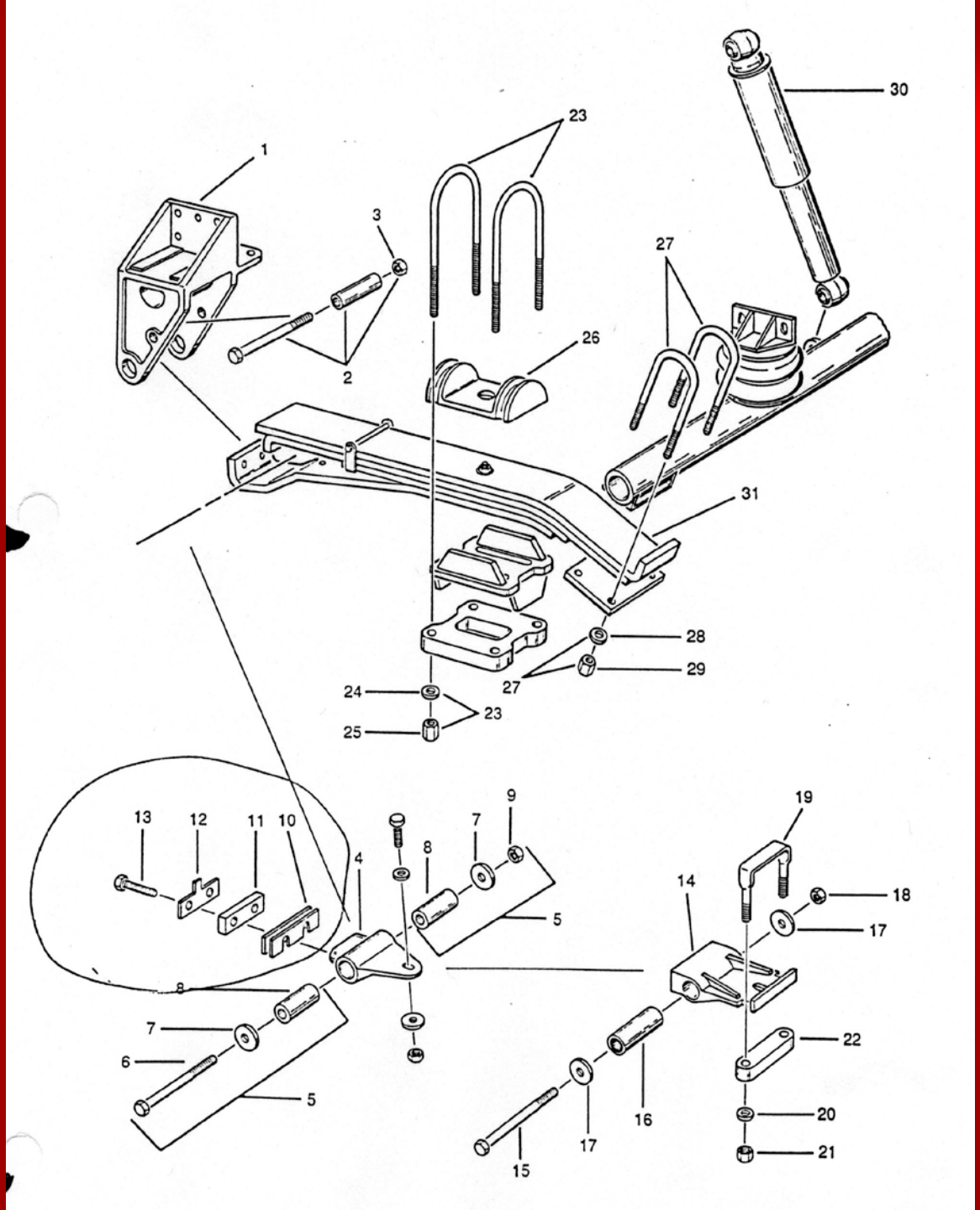
Hendrickson Steel Spring



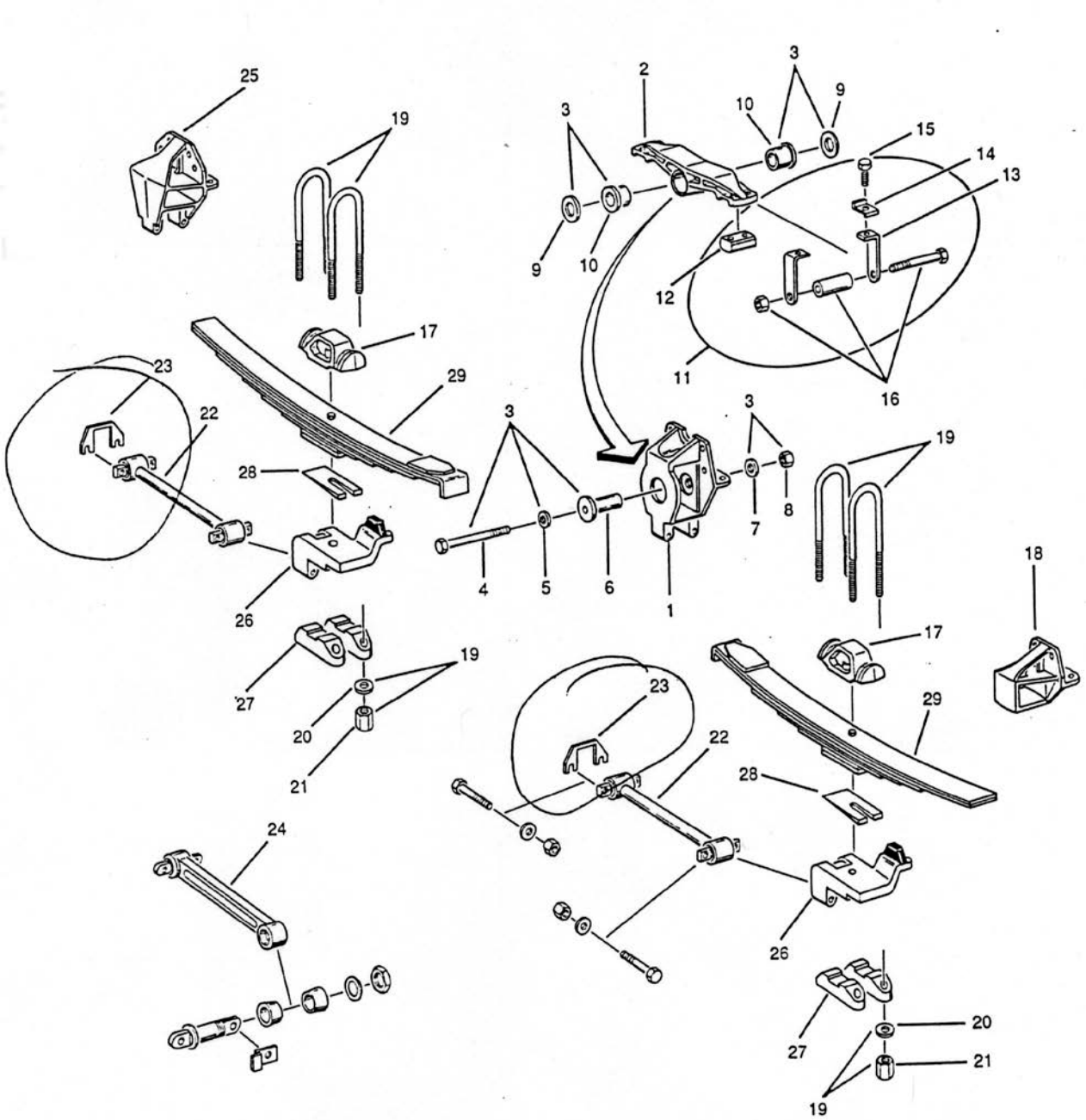
Ford Type "L" Front Suspension



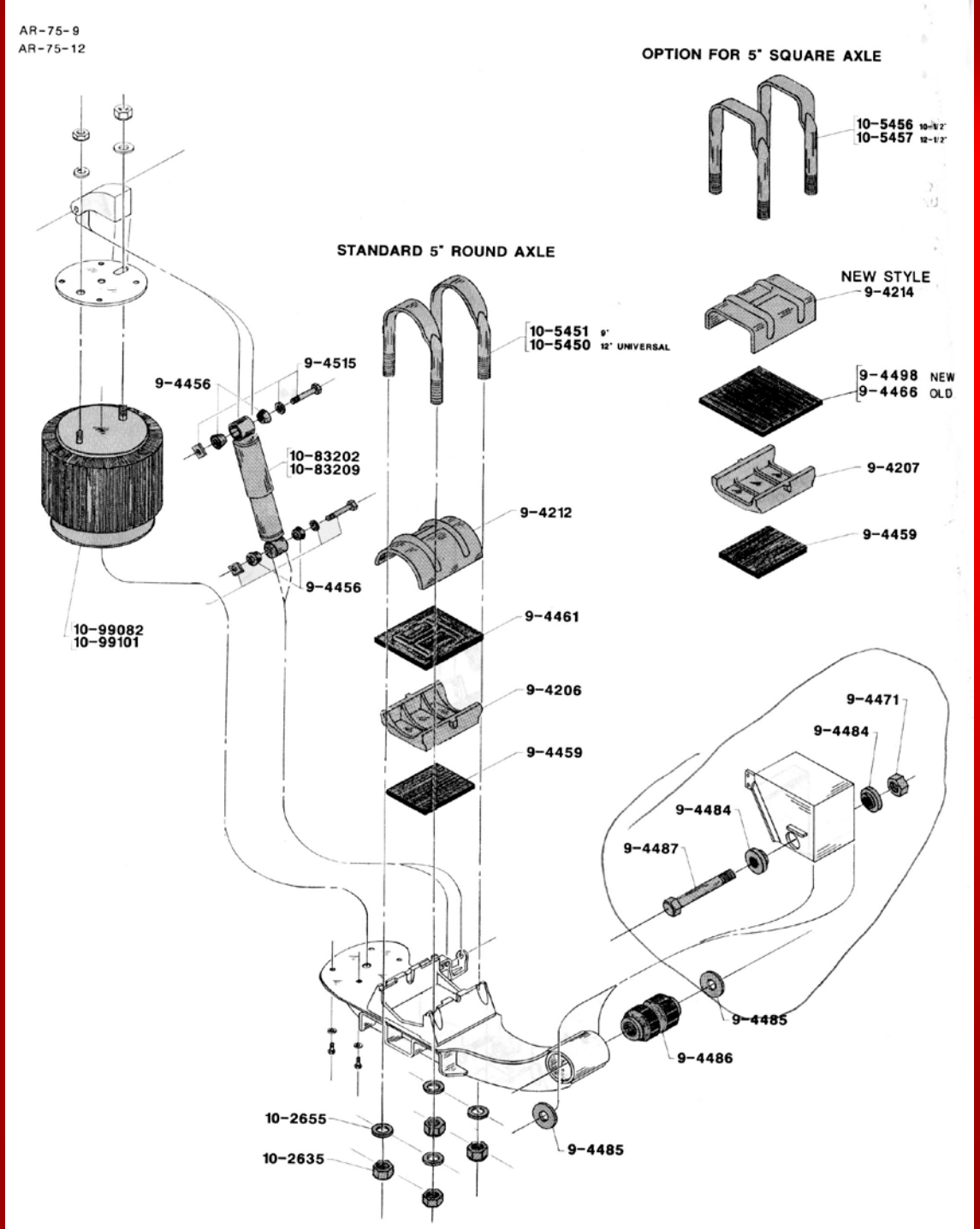
Airliner Rear Suspension



Freightliner Rear Four Spring



Neway AH-75


AR-75-9
AR-75-12
OPTION FOR 5" SQUARE AXLE
10-5456 10-1/2"
10-5457 12-1/2"
STANDARD 5" ROUND AXLE
10-5451 9"
10-5450 12" UNIVERSAL
NEW STYLE
9-4214
9-4498 NEW
9-4466 OLD
9-4207
9-4459
9-4515
9-4456
10-83202
10-83209
9-4456
10-99082
10-99101
9-4212
9-4461
9-4206
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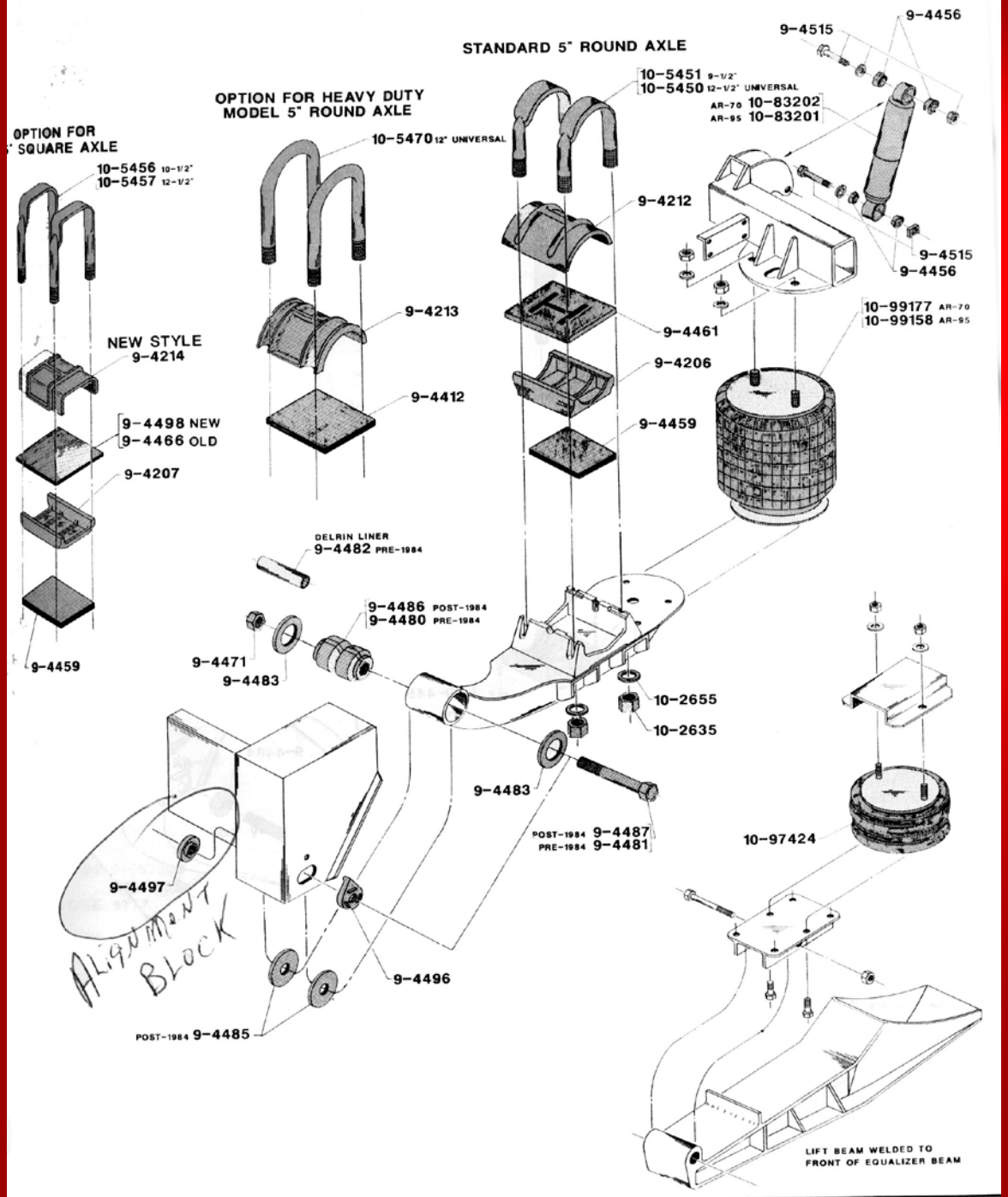
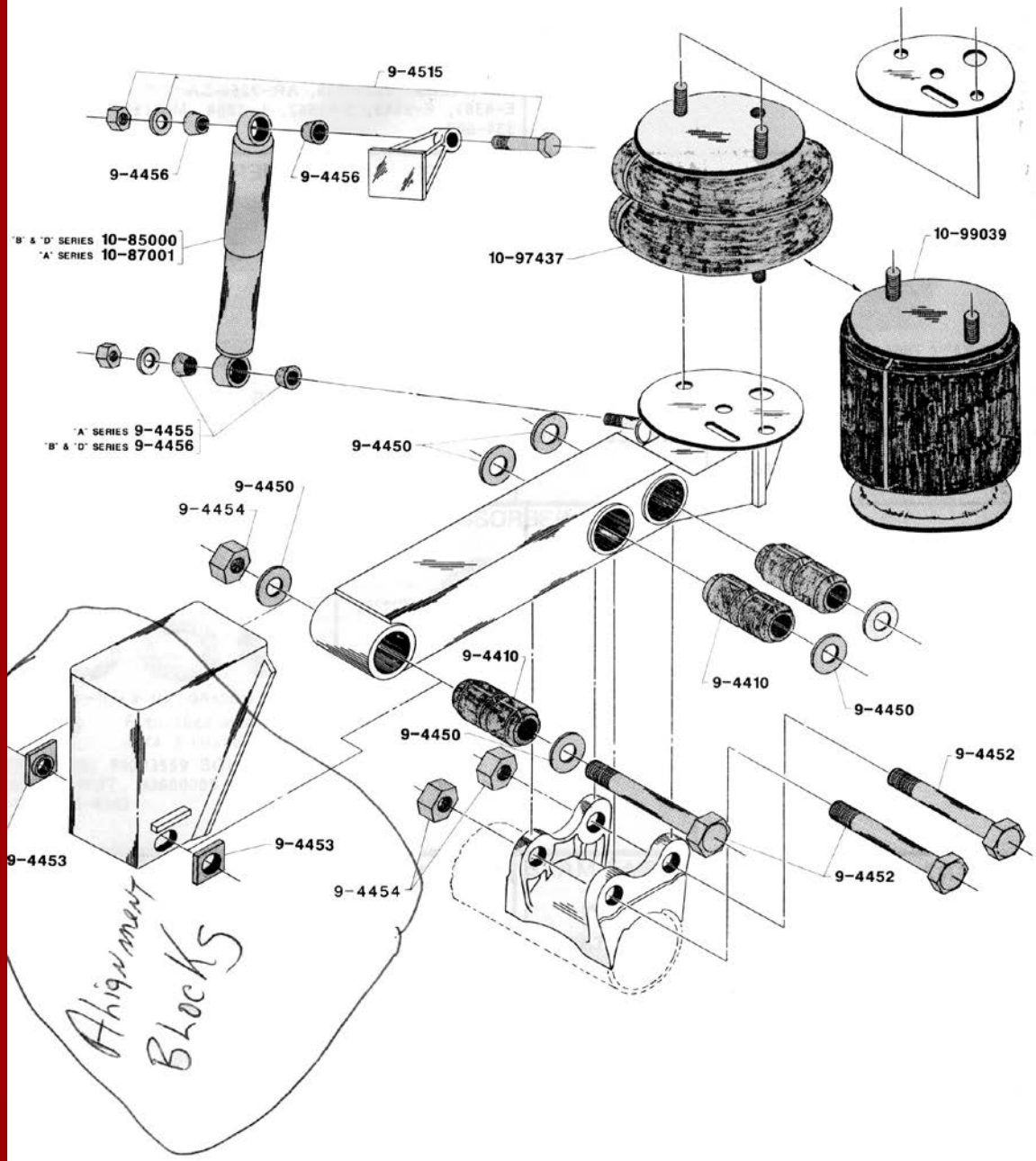

STANDARD 5" ROUND AXLE
OPTION FOR HEAVY DUTY MODEL 5" ROUND AXLE
OPTION FOR 5" SQUARE AXLE
10-5456 10-1/2"
10-5457 12-1/2"
NEW STYLE
9-4214
9-4498 NEW
9-4466 OLD
9-4207
9-4459
10-5470 12" UNIVERSAL
9-4213
9-4412
10-5451 9-1/2"
10-5450 12-1/2" UNIVERSAL
AR-70 10-83202
AR-95 10-83201
9-4212
9-4461
9-4206
9-4459
9-4515
9-4456
9-4515
9-4456
10-99177 AR-70
10-99158 AR-95
DELRIN LINER
9-4482 PRE-1984
9-4486 POST-1984
9-4480 PRE-1984
9-4471
9-4483
10-2655
10-2635
9-4483
POST-1984 9-4487
PRE-1984 9-4481
10-97424
9-4497
ALIGNMENT BLOCK
9-4496
POST-1984 9-4485
LIFT BEAM WELDED TO FRONT OF EQUALIZER BEAM

Neway AR-70

Neway ARL-20


9-4515
9-4456
9-4456
"B" & "D" SERIES 10-85000
"A" SERIES 10-87001
10-97437
10-99039
"A" SERIES 9-4455
"B" & "D" SERIES 9-4456
9-4450
9-4450
9-4454
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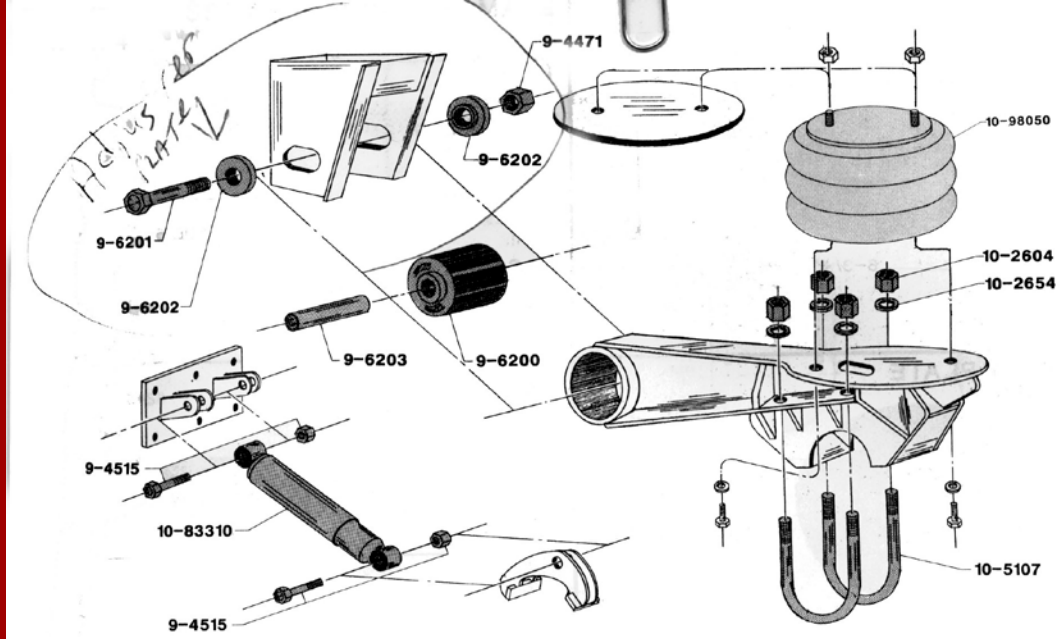
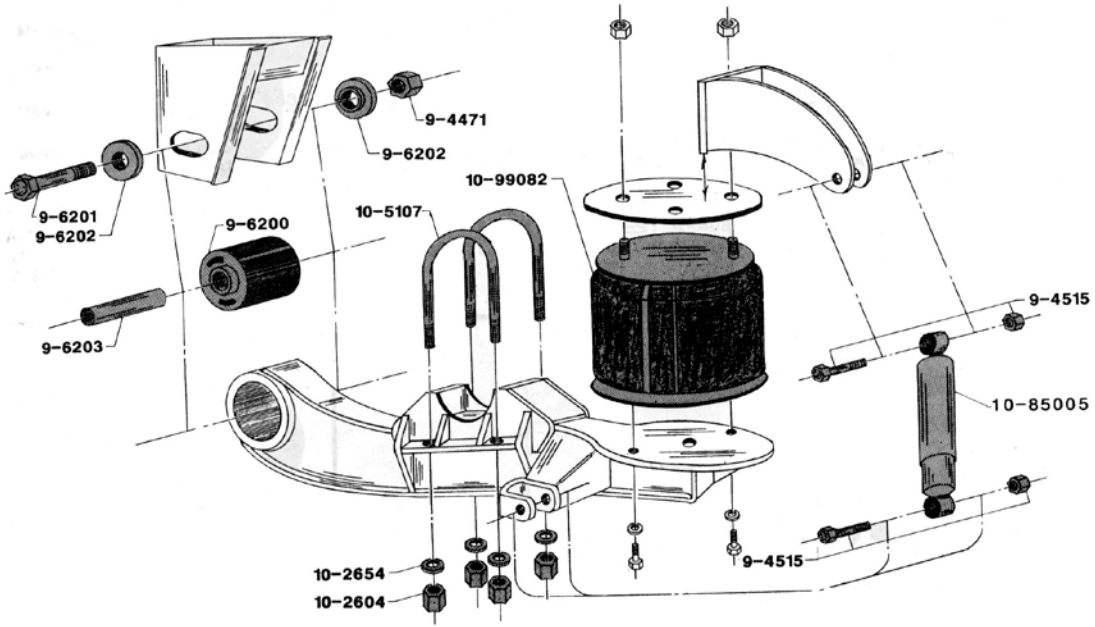
Alignment Blocks

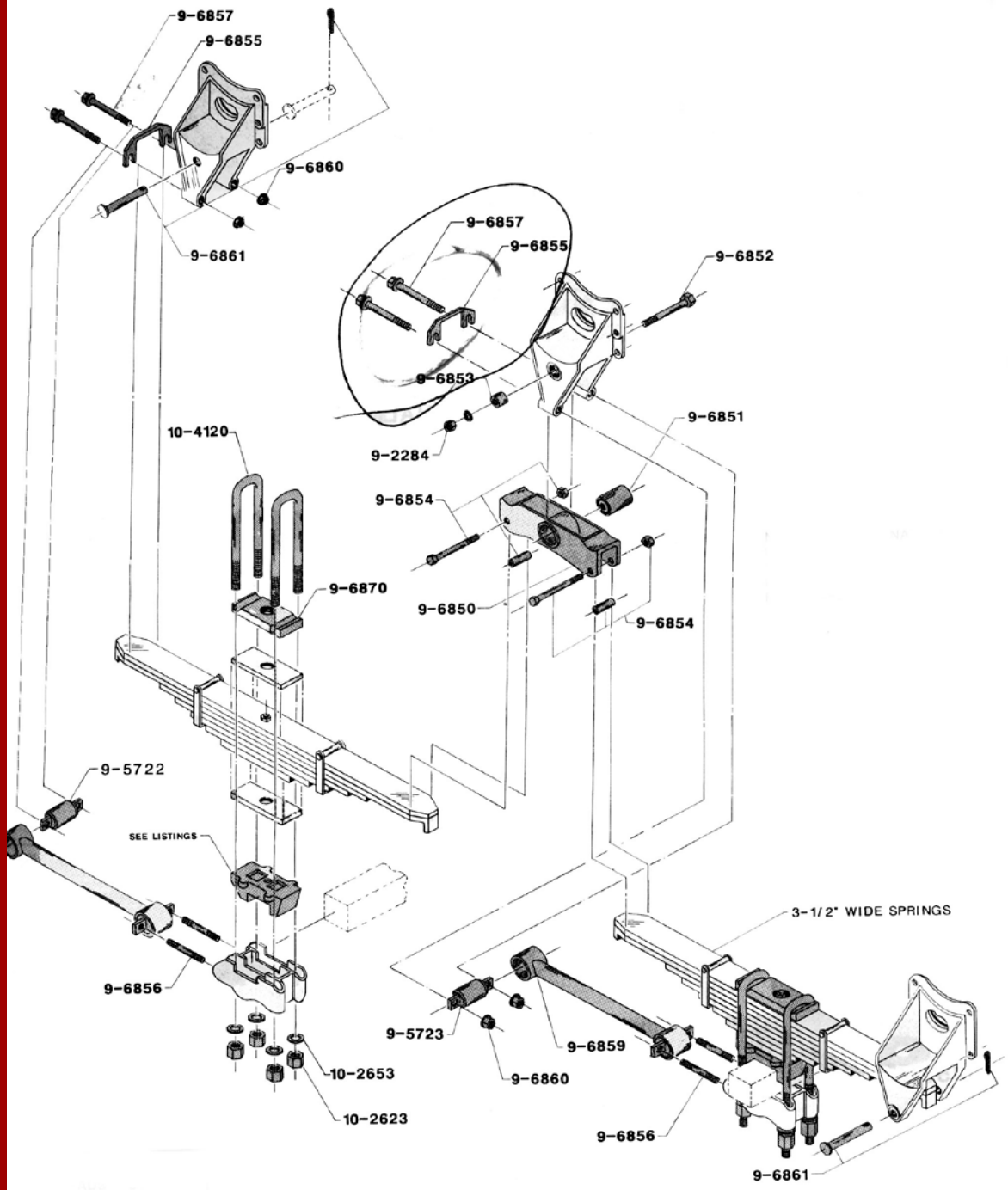
Turner "T" Series Air Ride



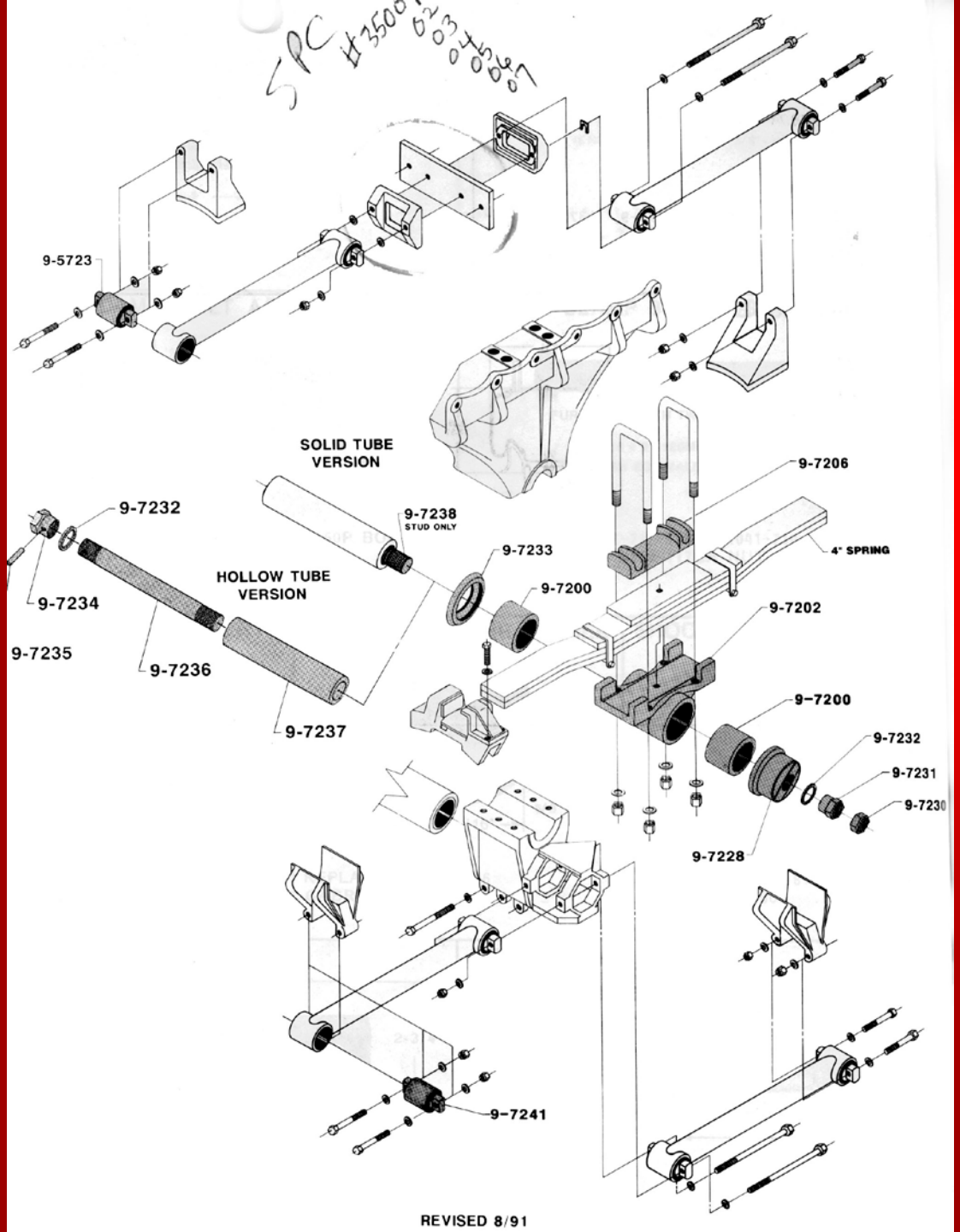
T-9-106



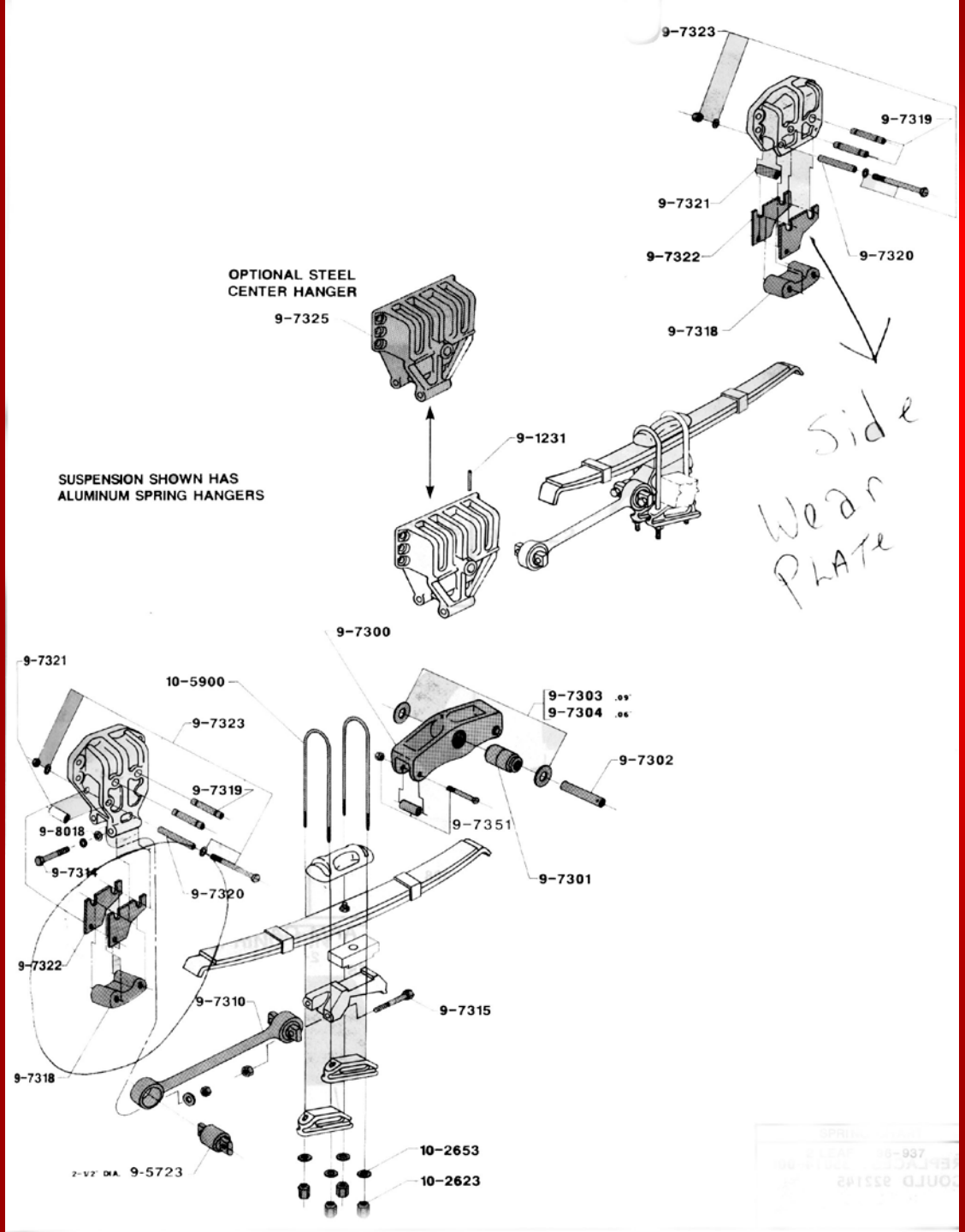
IHC "Corporate" Spring Suspension

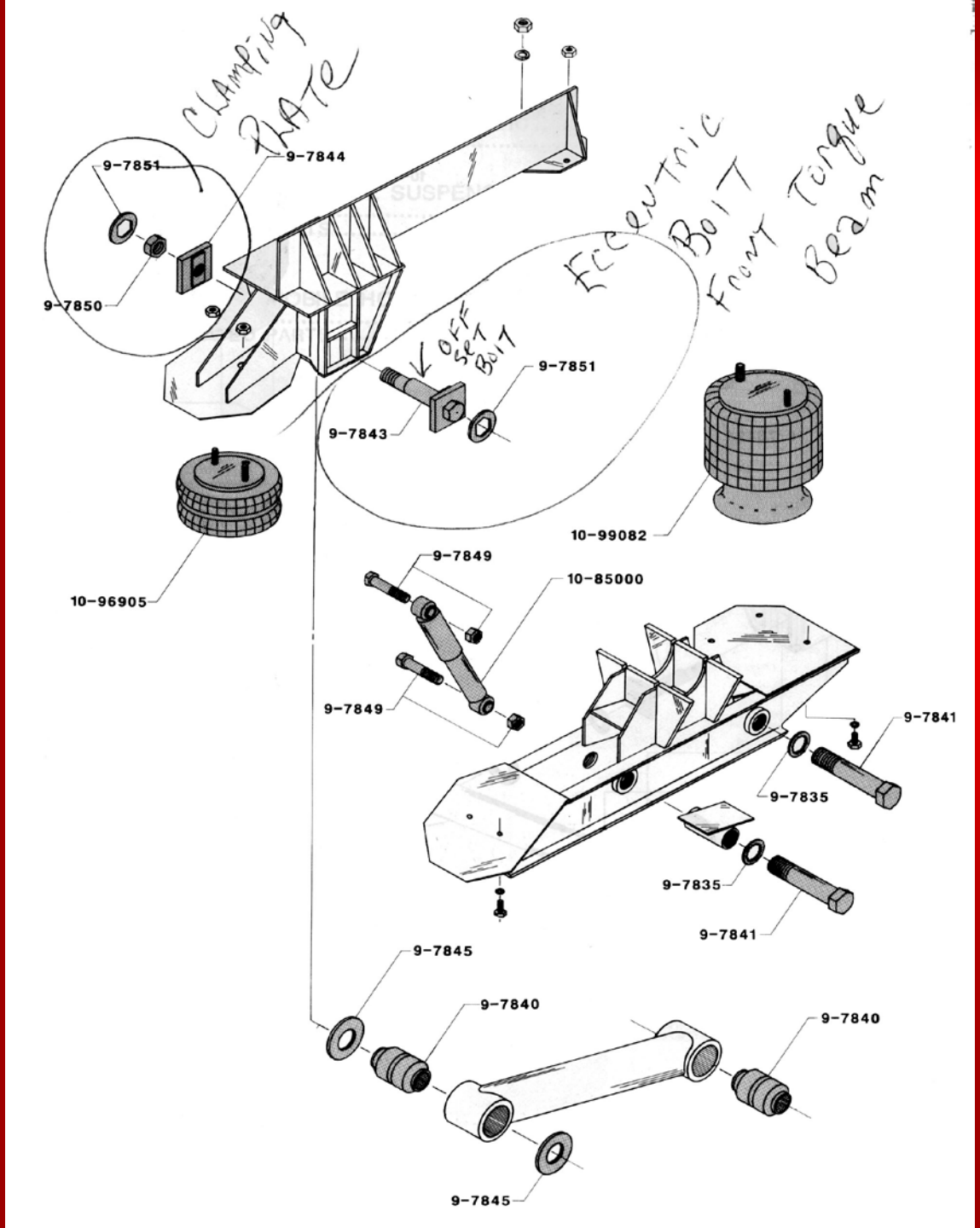


Kenworth “Big 6” Spring Suspension



Volvo-White "New Family" Aluminum Hangers





Ridewell Air Suspension

Thank You