

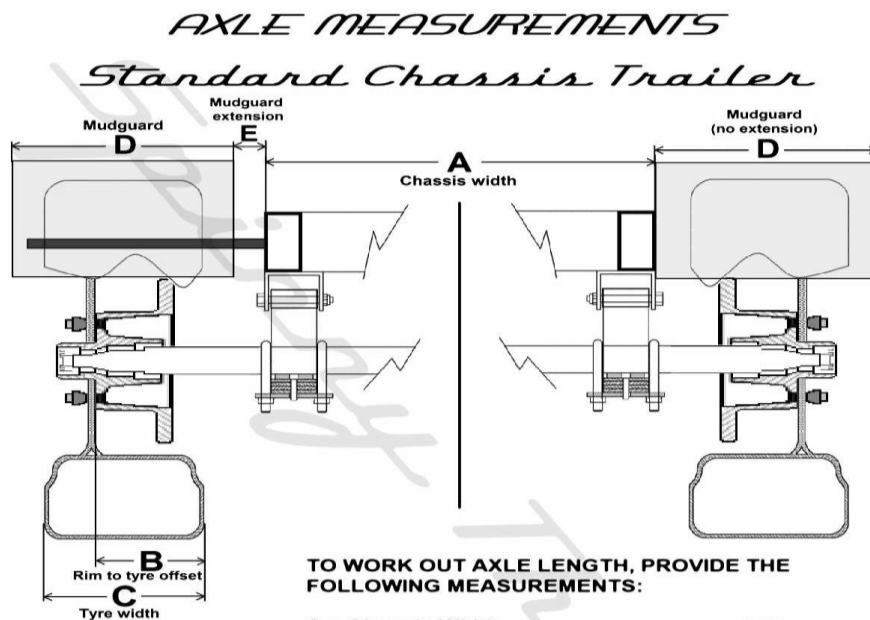
TECHNICAL GUIDE

AXLE SIZING

YOU MUST HAVE YOUR RIMS & TYRES BEFORE SELECTING YOUR AXLE LENGTH!!!

There are so many different rim widths and offsets out there. If you get your axle and THEN your rims, 9 out of 10 times the axle will be wrong - by up to 4 INCHES!

Use our EXPERIENCE and fill out one of the Axle Worksheets below - it will save you TIME and MONEY!



TO WORK OUT AXLE LENGTH, PROVIDE THE FOLLOWING MEASUREMENTS:

A = Chassis Width _____ mm
B = Rim to tyre offset _____ mm
C = Tyre width _____ mm
D = Mudguard width _____ mm

If you have an extension between the chassis and mudguard, also provide:

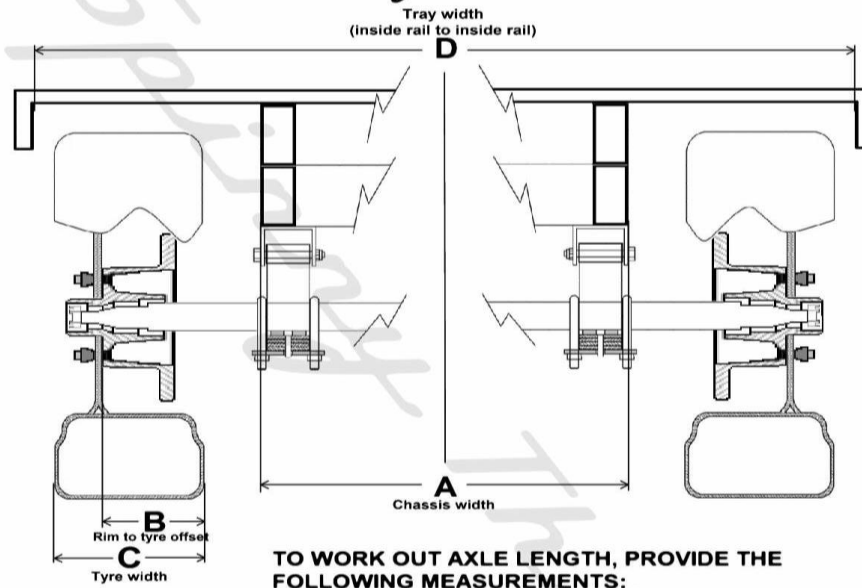
E = Mudguard extension _____ mm

OR

* Place wheels under mudguards where you want them to sit - leaving an ABSOLUTE MINIMUM clearance between chassis and tyre of 35mm - OPTIMUM is 50mm
 * Measure from hub face to hub face
 * Add 50mm to each end (total of 100mm)
THIS METHOD OF MEASURING DOESN'T ALLOW FOR BRAKES - USE THE 1ST METHOD IF USING BRAKES

AXLE MEASUREMENTS

Ute Tray Trailer



TO WORK OUT AXLE LENGTH, PROVIDE THE FOLLOWING MEASUREMENTS:

- A = Chassis Width _____ mm
B = Rim to tyre offset _____ mm
C = Tyre width _____ mm
D = Tray width (inside rail to inside rail) _____ mm

OR

- * Place wheels under mudguards where you want them to sit - leaving an ABSOLUTE MINIMUM clearance between chassis and tyre of 35mm - OPTIMUM is 50mm
 - * Measure from hub face to hub face
 - * Add 50mm to each end (total of 100mm)
- THIS METHOD OF MEASURING DOESN'T ALLOW FOR BRAKES - USE THE 1ST METHOD IF USING BRAKES

AXLE SPECIFICATIONS

Axle length is measured from tip to tip of the bare axle

39mm Round Axles - 750kg maximum operating weight per Axle. Runs LM (Holden) bearings

40mm Square Axles - 1000kg maximum operating weight per Axle. Runs LM (Holden) bearings

45mm Square Axles - 1500kg maximum operating weight per Axle. Runs SL (Ford) bearings

BEARINGS

LM (Holden bearings) suit 39mm Round & 40 mm Square Axles - 1000kg weight capacity / pair

- Outer (small) bearings # LM 11949 - Bearing
LM 11910 - Cup
- Inner (large) bearings # LM 67048 - Bearing
LM 67010 - Cup

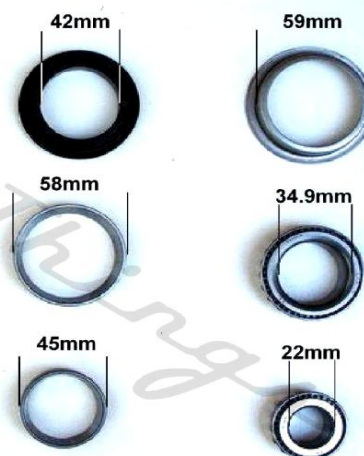
SL (Ford bearings) suit 45mm Square Axles - 1400kg weight capacity / pair

- Outer (small) bearings # L 12749 - Bearing
L 12710 - Cup
- Inner (large) bearings # L 68149 - Bearing
L 68110 - Cup

Holden Trailer Bearings



Ford Trailer Bearings



Note: These are not the only trailer bearings available in Australia - these are the common ones that we supply.

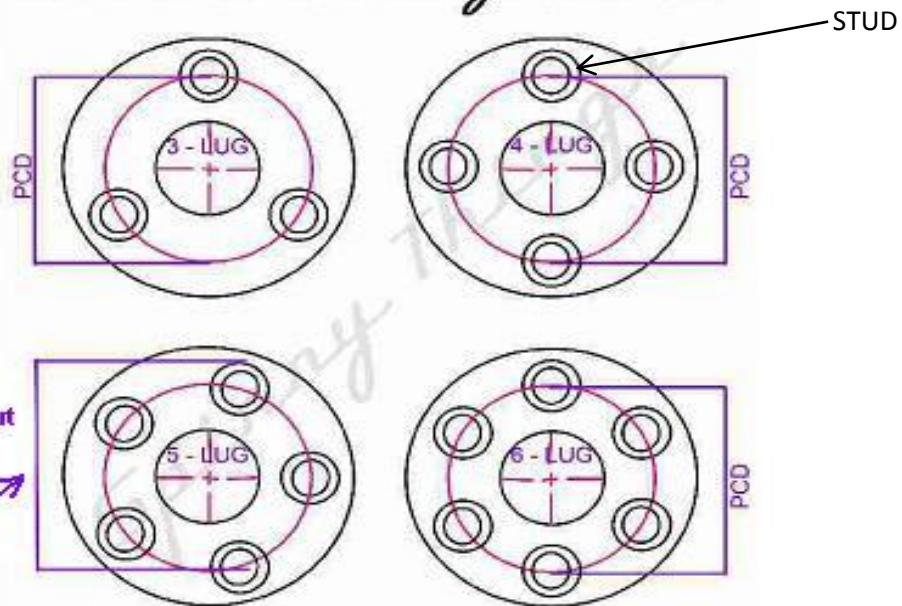
Some axles out there have 1/2 Holden, 1/2 Ford bearings so make sure you measure BOTH bearings before deciding if you have either of the above bearing sets.

STUD PATTERNS / PCD

(for all hubs / hub drums / hub discs)

Ford	- 1/2" UNF studs	- 5 Studs	- PCD 114.3mm	- 68mm from stud to stud
Holden HT	- 7/16" UNF studs	- 5 Studs	- PCD 108mm	- 65mm from stud to stud
Holden HQ	- 7/16" UNF studs	- 5 Studs	- PCD 120.6mm	- 72mm from stud to stud
Commodore	- 7/16" UNF studs	- 5 Studs	- PCD 120mm	- 72mm from stud to stud
Gemini	- 7/16" UNF studs	- 4 Studs	- PCD 100mm	- not available in braked kits
Toyota	- 7/16" UNF studs	- 4 Studs	- PCD 114.3mm	- not available in braked kits
Mini	- 7/16" UNF studs	- 4 Studs	- PCD 101.6mm	- not available in braked kits
Landcruiser 80 series, F100	- 1/2" UNF studs	- 6 Studs	- PCD 139.7mm	- 70mm between studs
Landcruiser 100 series	- 9/16" UNF studs	- 5 Studs	- PCD 150mm	

How to measure your PCD



BRAKES

All trailers over 750kg GVM require brakes on at least one axle

All trailers over 2.0T to 4.5T require brakes on all axles and a breakaway system.

Minimum inside diameter of rim for brakes to fit

- Disc brake systems (hydraulic or mechanical)

Standard 1/2" Disc

- 11.5" or 296mm

(You will need to use Velox discs if your rims are smaller than this)

All 4WD 5/8" Disc

- 13.8" or 350mm

- 9" Drum Brake systems (hydraulic or mechanical)

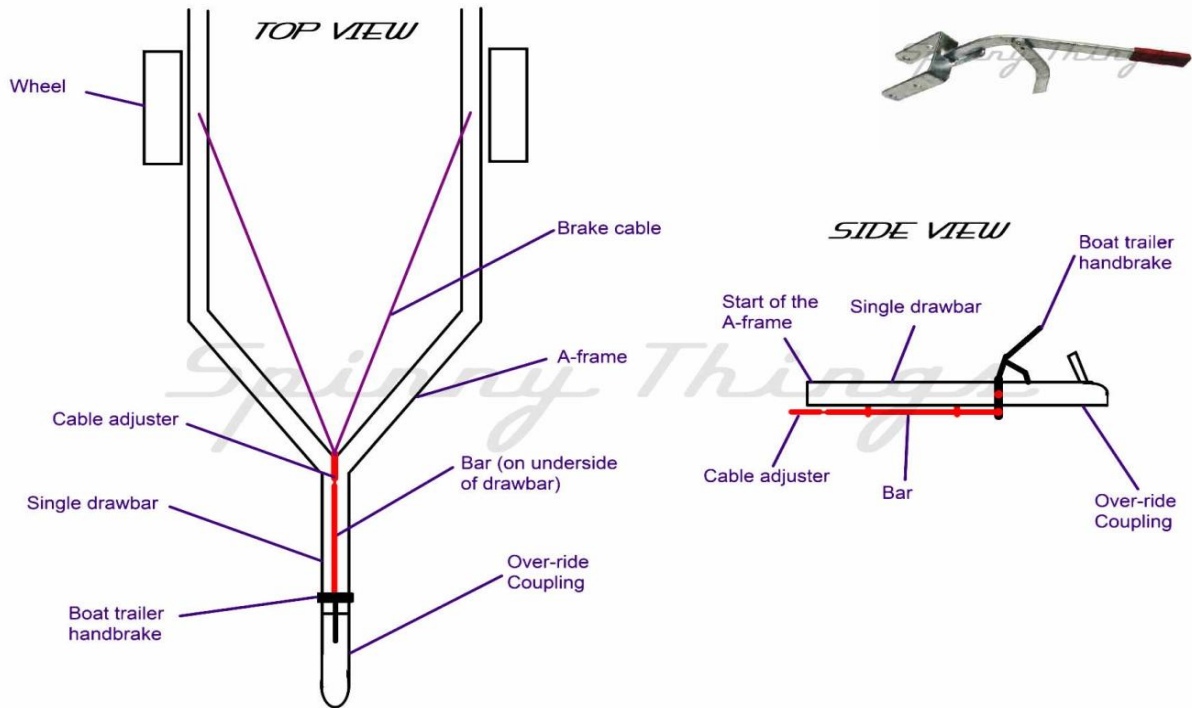
- 11" or 280mm

- 10" Drum Brake systems (electric)

- 10.6" or 270mm

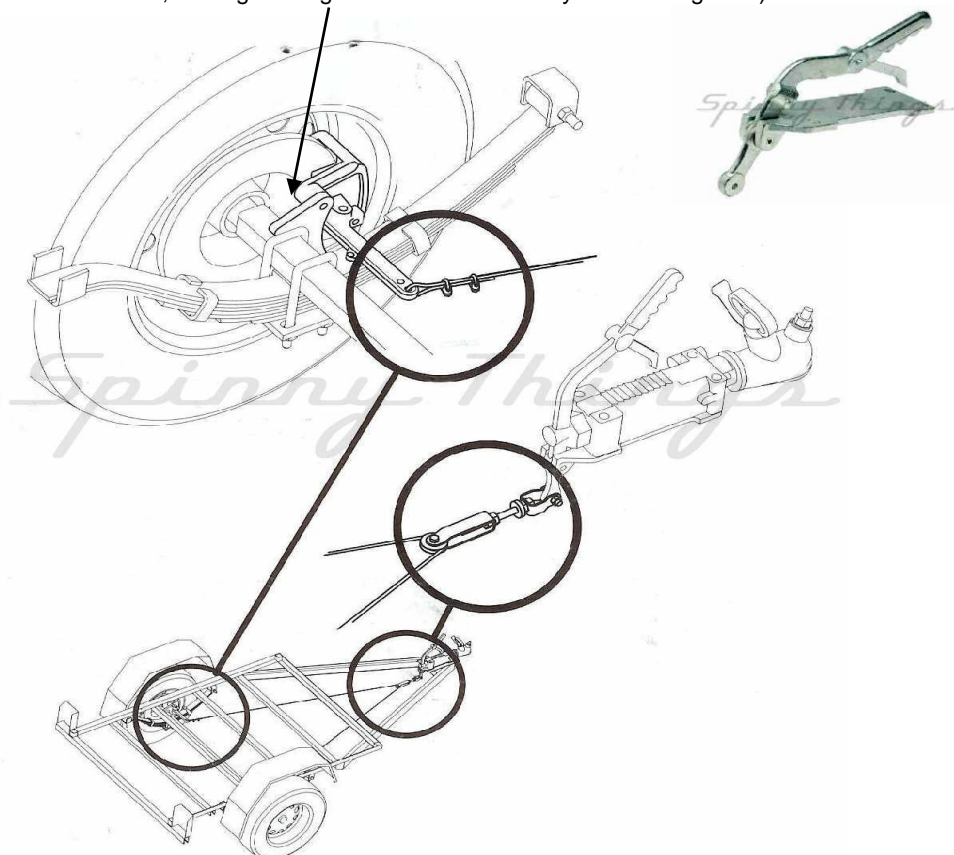
MECHANICAL BRAKE SET-UP WITH BOAT TRAILER HANDBRAKE

(we recommend you make your own bar to suit your drawbar - as shown in red on the under-side of the drawbar - so cable remains within the confines of the trailer)



MECHANICAL BRAKE SET-UP WITH A-FRAME HANDBRAKE

(Please note: this picture incorrectly shows the caliper mounting bracket mounted to the wrong side of the caliper. The caliper will only bolt on one way - and that is where the mounting bracket is between the disc and the caliper. However, it still gives a good idea of how the system fits together)



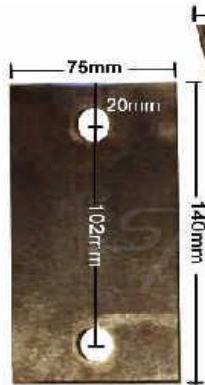
NON-BRAKED COUPLINGS



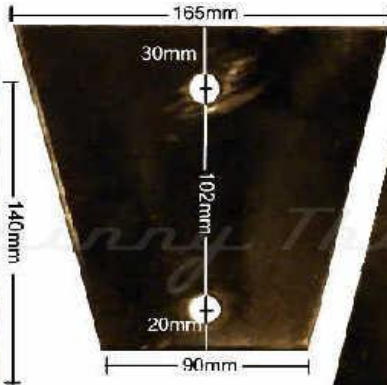
Standard bolt position for 3 hole mount



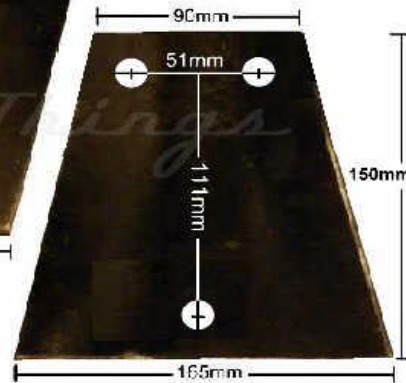
Standard bolt position for 2 hole mount



CBP2

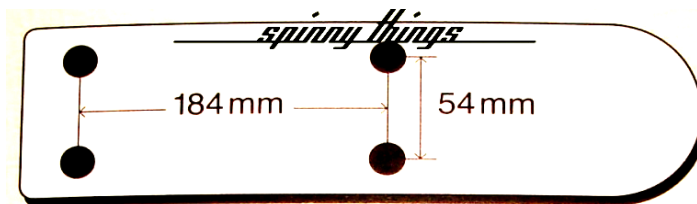


CBPV2



CBPV3

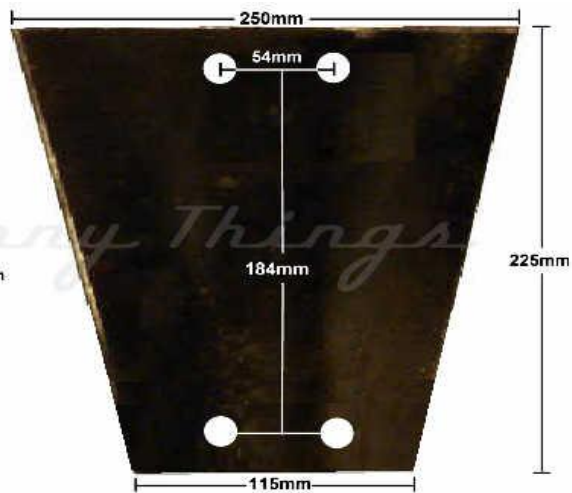
BRAKED COUPLINGS



Standard bolt position for 4 hole mount



CBP4

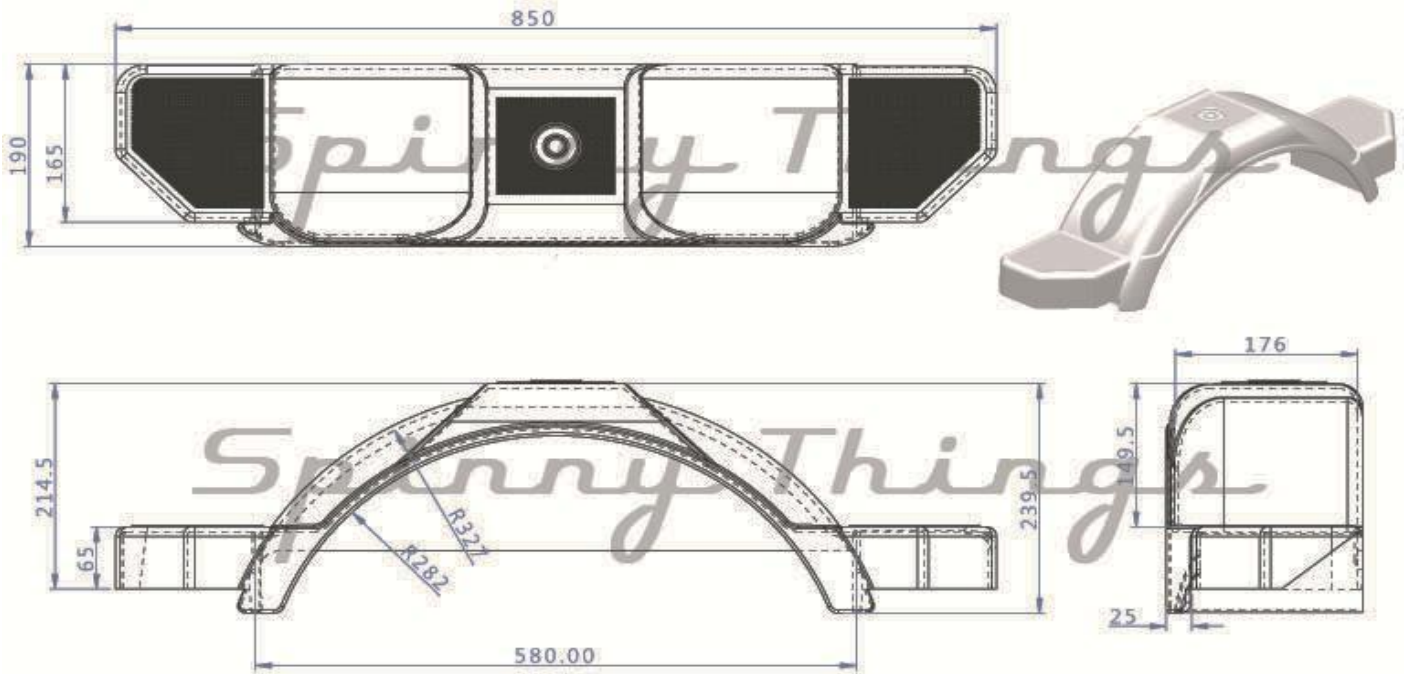


CBPVA4

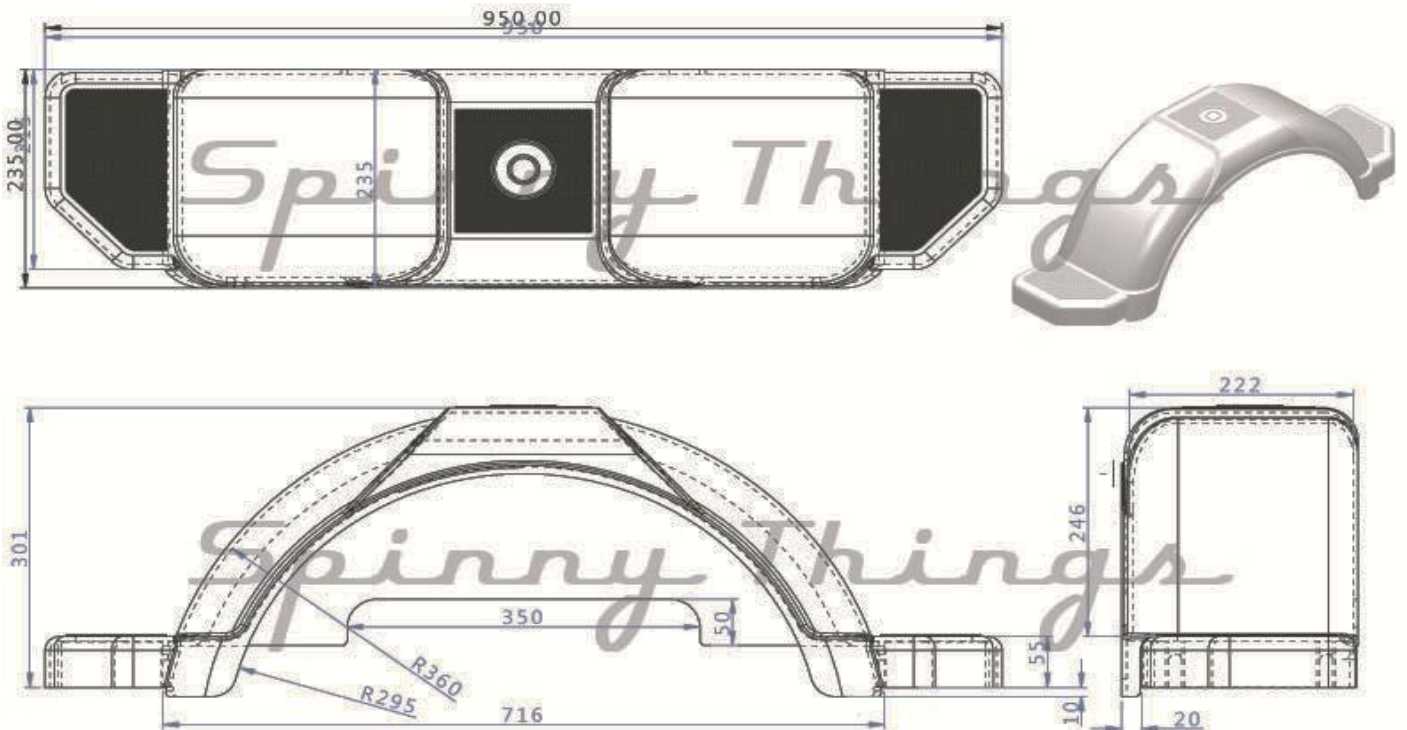
All dimensions are for reference only and are not exact

PLASTIC MUDGUARDS

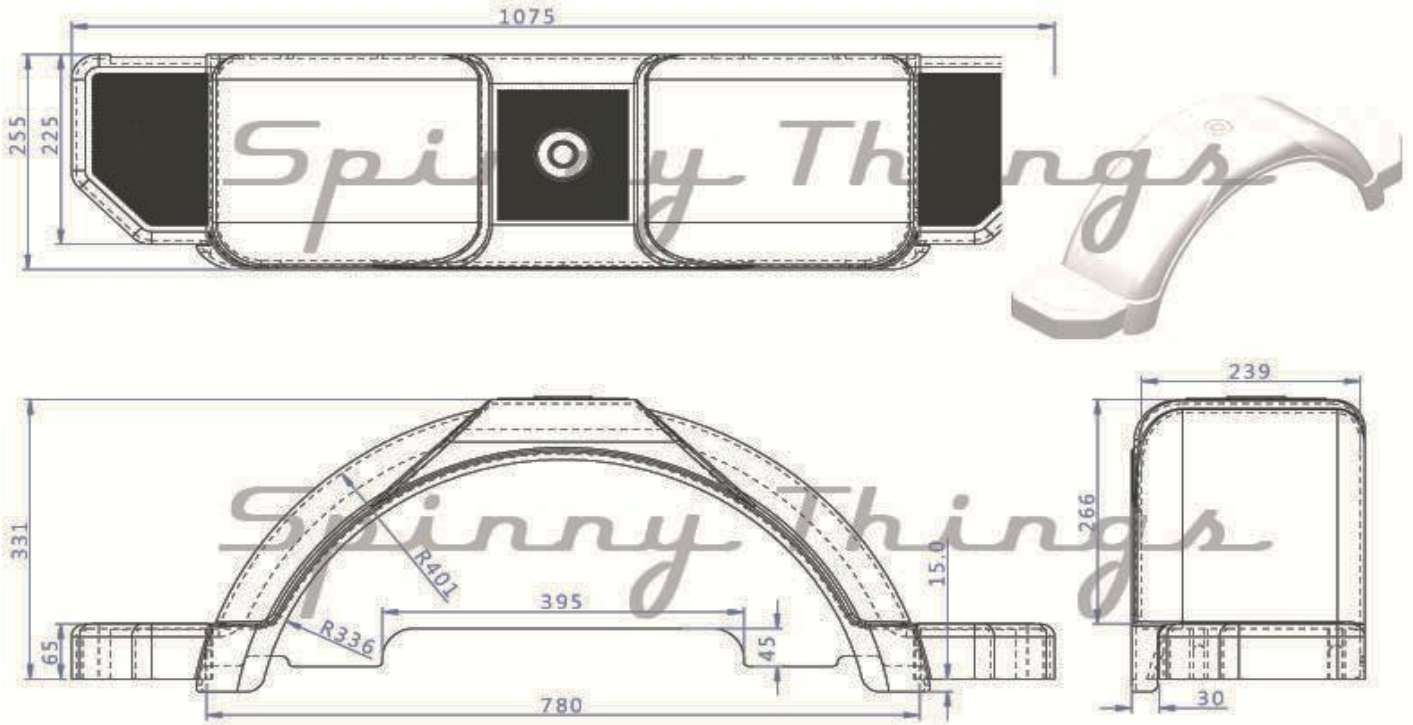
SUIT 10" WHEELS



SUIT 13" WHEELS

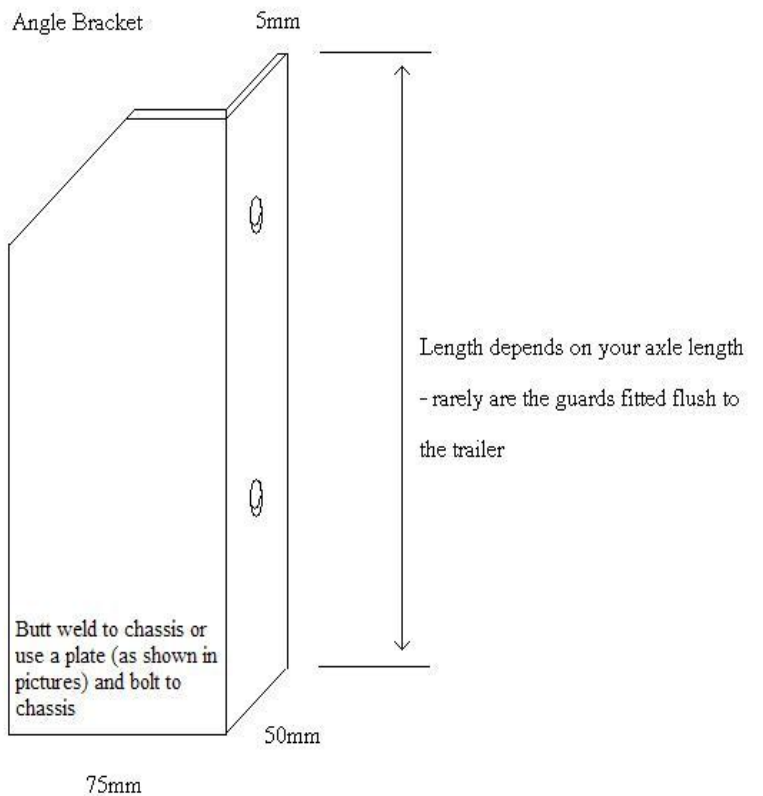


SUIT 13" WHEELS



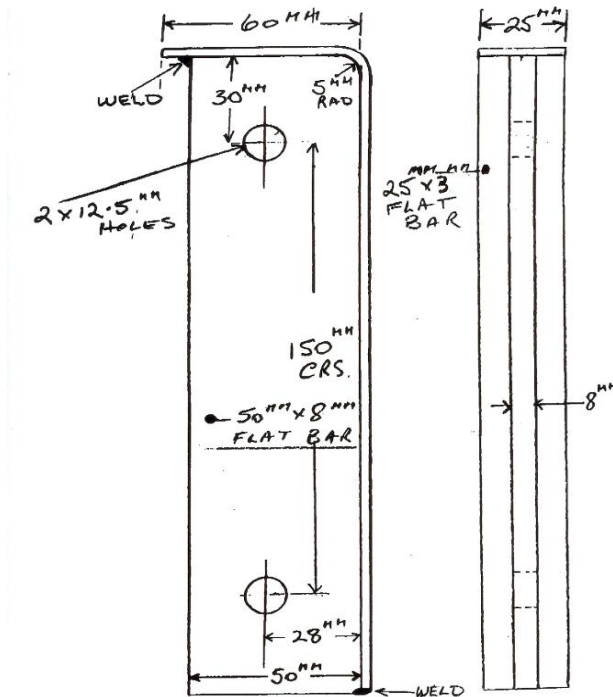
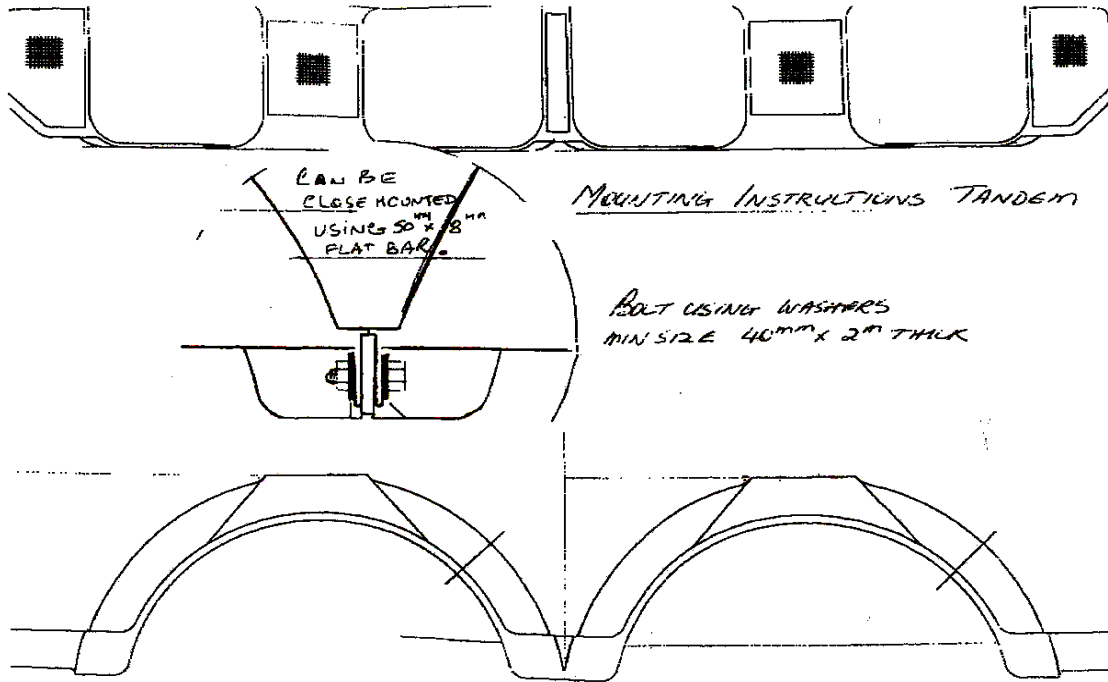
BRACKETS

These are VERY easy to make if you're handy with a welder. Here are some pictures and a diagram to help you out:



TANDEM PLASTIC MUDGUARDS

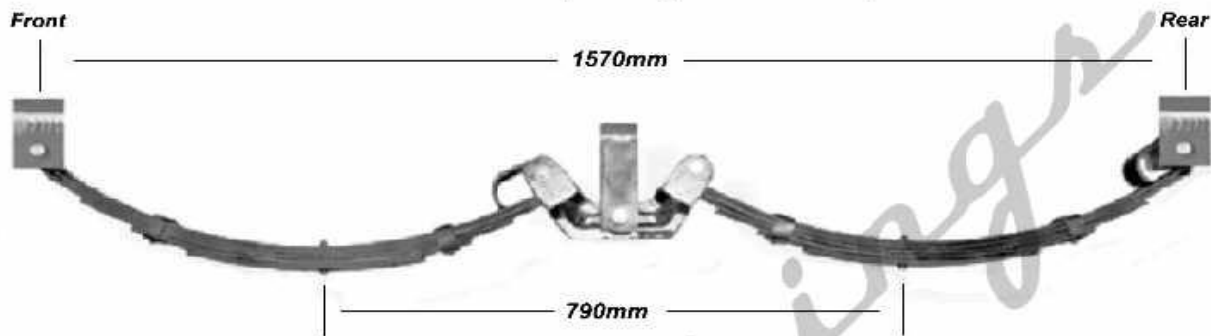
All tandem Plastic Mudguards are 2 singles put together. This is generally done by cutting the middle steps out and making up a bracket that both joins the 2 Mudguards together and covers the cut area. Below is a suggestion:



ROCKER ROLLER SPRINGS

13" - 15" Rims

This is how they are supplied from factory



4WD 15" - 16" Rims

Simply un-bolt the springs and swap the front spring for the rear spring (spreads the bolts further apart)



To install these springs:

- Tack the middle hanger
- With 2 people pull the front and rear hangers out as far as they will go (keeping the middle rocker level)
- Tack the front and back

This is the correct way to set up these springs.

All dimensions are for reference only and are not exact

SLIPPER SPRINGS

45mm wide

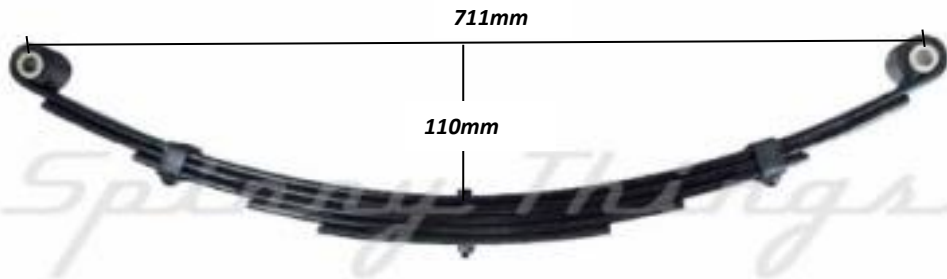


60mm wide

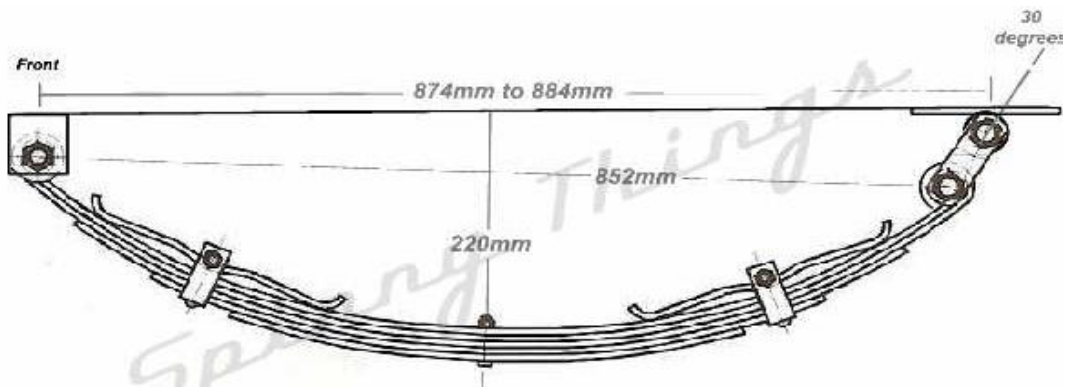


EYE TO EYE (SHACKLE) SPRINGS

45mm wide



OFFROAD SPRINGS



Dimensions can change depending on current supplier.

All dimensions are for reference only and are not exact

CHROME MAG & LUG NUTS

Available sizes:

- Lug Nuts 1/2", 7/16", 12 x 1.25mm
- Mag Nuts 1/2", 7/16", 12 x 1.25mm, 12mm x 1.5mm



All dimensions are for reference only and are not exact