

**TROJAN**

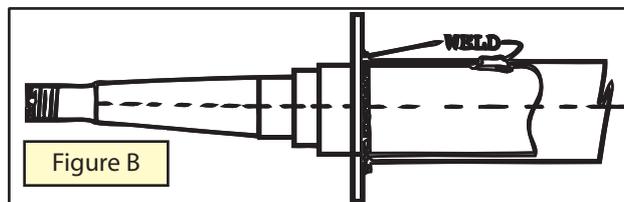
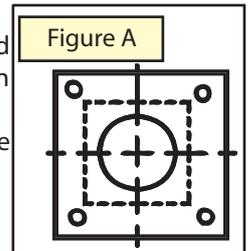
QUALITY TRAILER COMPONENTS

ELECTRIC DRUM BRAKE FITTING INSTRUCTIONS

This quality TROJAN Brake Kit has been designed and manufactured exclusively for trailer application. Any failure and or loss of performance due to the use or incompatibility of other brands of equipment used could endanger the TROJAN warranty. The following instructions cover the fitting of electric drum brakes to trailers having semi - elliptical type leaf spring suspensions in the first section, and those fitted with TROJAN duratorque suspensions in the second part.

Spring Type Suspensions:

- 1) After selecting an appropriate size of material for the axle beam both stub axles should be welded in, taking care that the brake flanges are in the correct position in relation to the axle beam shown by dotted line. (See Figure A).
- 2) In welding the stub axles in place it is essential that the inner end of the stub axle is secured to the axle beam. This is simply done by drilling a 13mm hole at the appropriate point in the end of the beam, through the beam on top of the stub axle and then filling the hole with weld securing the stub axle to the beam. (See Figure B).



- 3) Mount the backing plates to the flanges but only finger tighten the four nuts. Note that the backing plates are handed left and right, and when in place the magnets are to be at the bottom of the back plates.
- 4) Next fit the grease seal as detailed in the seal fitting instructions and place the hub / drum unit complete with bearings correctly packed with grease (we use and recommend Castrol BNS) onto the stub axle. It may be necessary to slacken the shoe adjustment in order to allow the drum to be correctly positioned. Fit the plain washer and slotted nut and adjust the bearings as detailed in the seal instructions.
- 5) Remove grommet from the back plate and adjust the brake shoes until the drums lock up. This adjustment to be tight as possible. (NOTE: If axle is of the drop beam type it will be necessary to drill a 12mm diameter hole positioned 20mm up from the shoe face of the drum.)
- 6) With the drum still locked up, tighten the four nuts holding each back plate to the mounting flanges.
- 7) Back off the brake shoe adjustment until the drum rotates freely without any drag. Replace grommet.
- 8) Complete wiring as detailed in controller wiring instructions.

TROJAN DURATORQUE Suspensions:

- 1) Remove any rust preventative coating from stub axles.
- 2) Place the adapter plate with the smaller diameter machined shoulder outermost over the stub axle and align the three holes, two threaded, one plain.
- 3) Using loctite or similar on the two M10 x 30 H/T mushroom headed socket screws, attach the adapter plate. Do not tighten at this point.
- 4) Insert the M10 x 24 tension pin in the untapped hole and hammer home.
- 5) Now torque the two socket screws to 35ft/lbs. This is most important.
- 6) Place the backing plate assembly over the stub axle and mount to the adapter plate with the four set screws, washers and nuts. (Do not tighten at this time).
- 7) Mount the backing plates to the flanges but only finger tighten the four nuts. Note that the backing plates are handed left and right, and when in place the magnets are to be at the bottom of the back plates
- 8) Next fit the grease seal as detailed in the seal fitting instructions and place the hub / drum unit complete with bearings correctly packed with grease (we use and recommend Castrol BNS) onto the stub axle. It may be necessary to slacken the shoe adjustment in order to allow the drum to be correctly positioned. Fit the plain washer and slotted nut and adjust the bearings as detailed in the seal instructions.
- 9) See step number 5 of Spring type suspensions.
- 10) See step number 6 of spring type suspensions.
- 11) See step number 7 of spring type suspensions.
- 12) Complete wiring as detailed in the controller wiring instructions.

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