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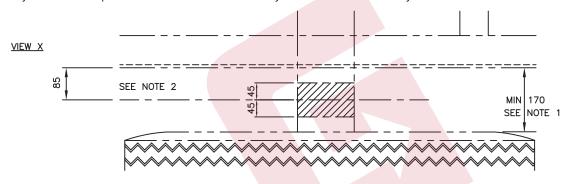
THIRD ANGLE PROJECTION

A 1ST ISSUE - ENGISM

SUFF CHANGE A: REASON DISPLORIGIN BY DATE

MODIFICATIONS

- 1) The minimum room required from the outside of the chassis to the tyre/brake drum is 170mm. Do not fit to a vehicle with less room here without consulting Granning UK engineering. This makes this suspension unsuitable for vehicles such as Mercedes Benz 17 series. See sheet 1, and view x.
- 2) Note the ¢ of spring is 85mm from the outside of the chassis and the spring is 90mm wide. Ascertain that there are no obstructions in the contact area that will prevent the saddle from locating or clamping correctly. Ensure the top and bottom of the axle are totally flat in this area or totally circular in the case of a circular section axle, See view x.



- 3) Measure axle cross section at position of spring mounting. Dim 'A', see view z.
- 4) This suspension comes in either of two sizes of saddle clamp. From the above dimension chose from 150mm or 120mm. \$\phi\$127 axles fit into 120mm saddleclamp. From this sheet assert whether you require a:

$$PDH20-110AA = 120mm Dim'A'$$

$$PDH20-110BA = 150mm Dim'A'$$

- 5) Measure height from underside of chassis to floor at position of drive axle vehicle unladen (h)
- 6) Note f dimension from brake load sensing valve setting plate.
- 7) Ascertain required ride height (h-f) or (h-3/4f) based on an evaluation of the unladen mass of the vehicle and the plated mass of the axle. Remove original suspension and set chassis to this height. Prop chassis safely.
- 8) Alternative lateral location and stability provided by panhard rod. Refer to Granning Engineering for further information.
- 9) Driveline angle can be adjusted by altering hanger position. See sheet 1.
- 10) It is imperative that this suspension is maintained and torqued correctly. If the torque settings are not maintained then catastrophic failure can occur. The customer is to be made aware of this and the torque setting plate (Part No 12678) permanently affixed to the vehicle in a position where it is easily viewed by servicing personnel.
- 11) In fitting this suspension the brake load sensing valve needs to be replaced by a valve that senses the air spring pressure and thus modulates the brakes. Note complete details from original load setting valve plate. Refer to drawing No. 80100 for suspension pressure details. A suitable valve is to be selected to give outputs similar to those of the original valve when signaled by the pressure in the airsprings. The valve is to be set and tested to ensure accurate setting and then fitted along with a setting instruction plate (Granning part No.11999) stamped with the correct settings.
- 12) If raise/lower is to be employed a height limiting valve is to be incorporated into the circuit to protect the suspension components. See drawings 18752 and 18753 for Granning Recommendation.

13) Valve kits available: AP200 VALVE KIT PRIMARY

AP201 VALVE KIT PRIMARY RAISE/LOWER

AP203 VALVE KIT PRIMARY DUAL CONTROL

AP204 VALVE KIT PRIMARY DUAL CONTROL RAISE/LOWER

