3D PIVOT MEASURING SYSTEM (Part No. 19100)

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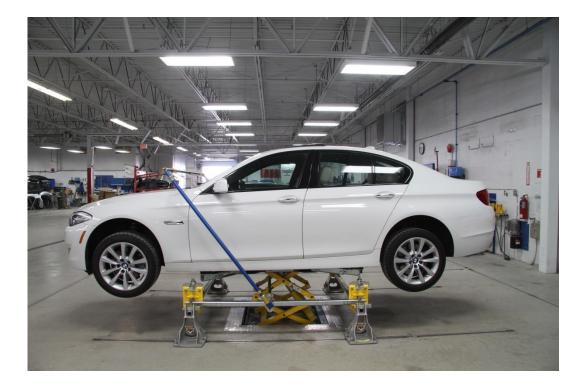


INTRODUCTION

19100 Pivot Measuring System

This measuring system was carefully designed to give you maximum performance in restoring total vehicle symmetry in the fastest time possible time. The more you use it, the more uses you will find for it. Because of the pivoting action, there are fewer pieces required to reach any point you wish to check for misalignment – whether it is for damage analysis or to have accurate targets to pull to.

The system works with any standard 3D vehicle measuring specification. Use with the Wedge Clamp Eclipse electronic measuring system #E1000 for full upper and lower body measuring.



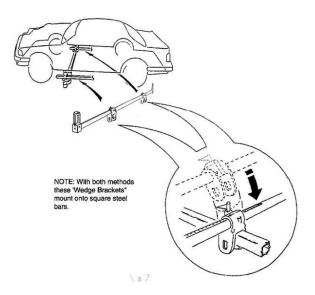


There are two methods for mounting the 19100 onto a vehicle:

1. Mount directly on to Wedge Clamp's anchoring system bars.



 Use the 24000 Pivot Quick Mount Kit. This kit allows you to mount the System independently for damage analysis, or with any other rack or bench system.

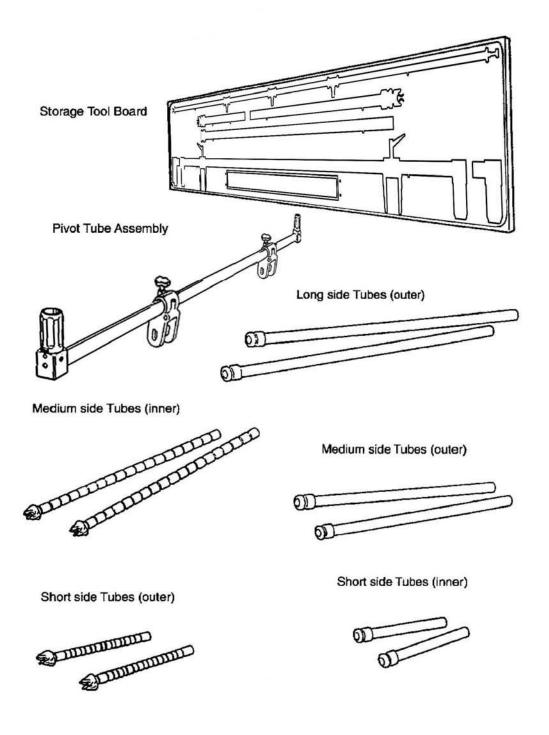






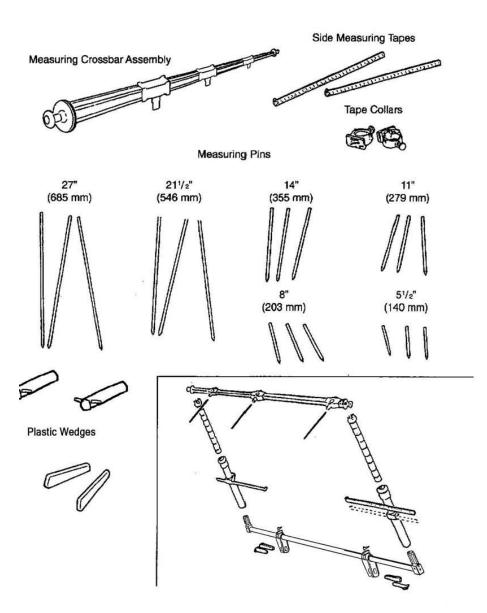


COMPONENTS



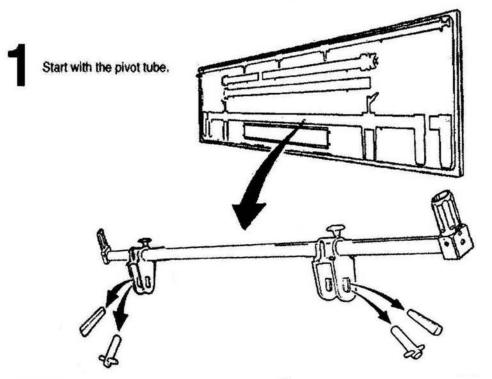


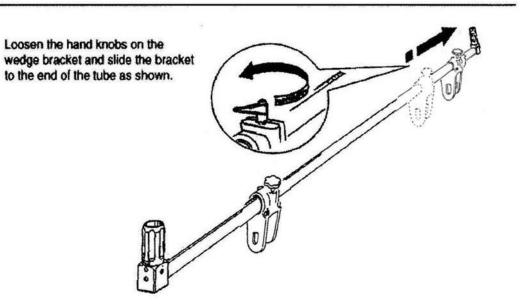
COMPONENTS





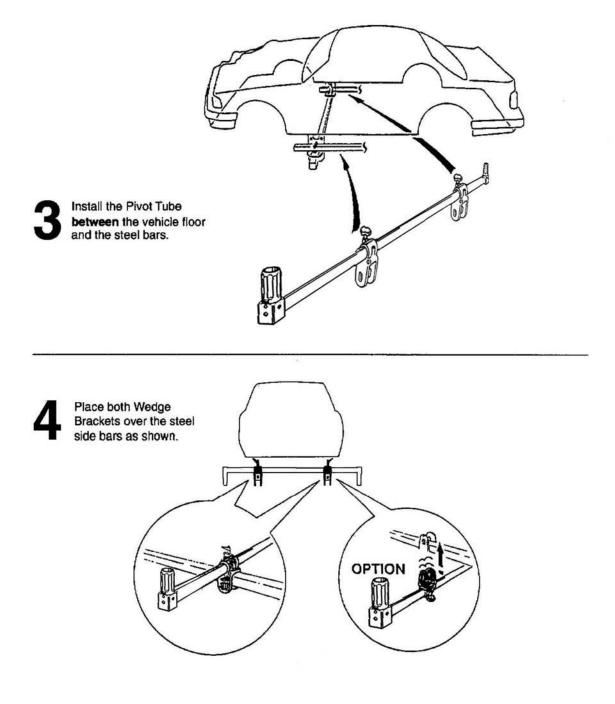
SET UP PROCEDURE





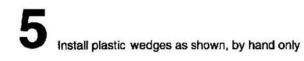


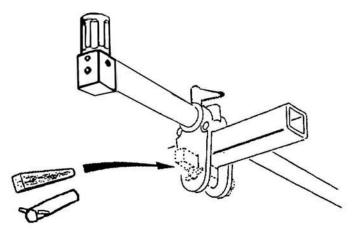
SET UP PROCEDURE





SET UP PROCEDURE

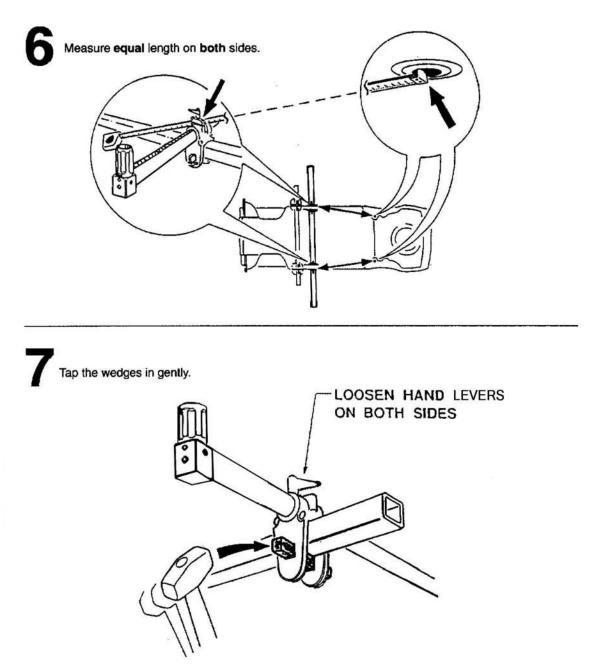




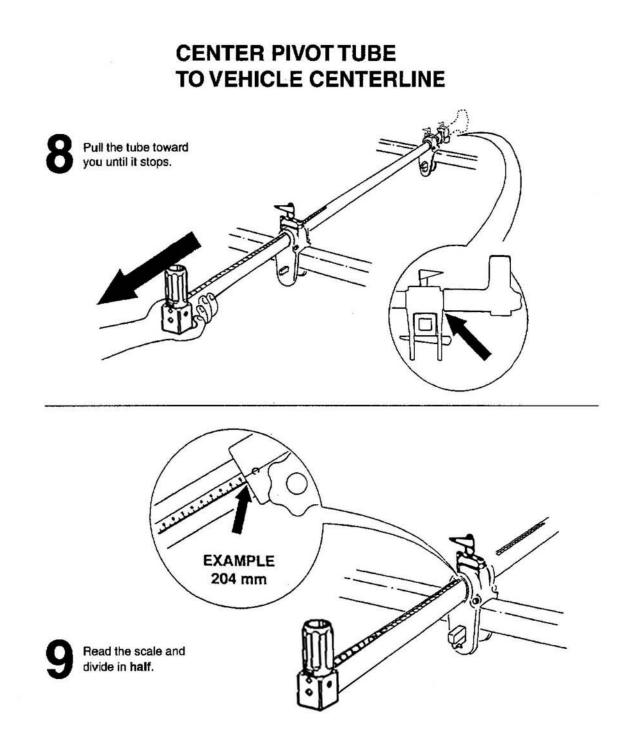
NOTE: Before we can begin to measure, the Pivot Tube must be installed square and centered to the vehicle. Follow Steps 6 to 23 carefully.



SQUARE PIVOT TUBE TO VEHICLE CENTERLINE

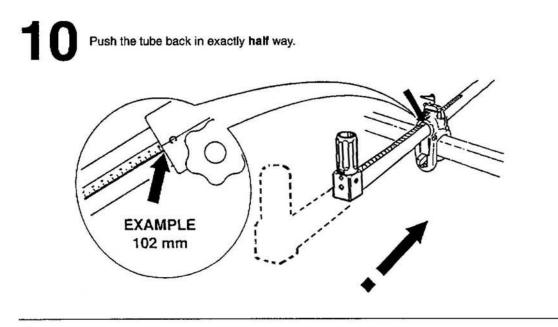




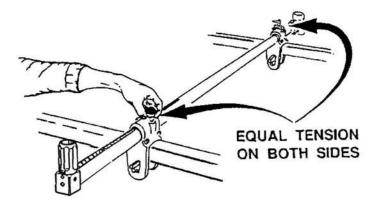




CENTER PIVOT TUBE TO VEHICLE CENTERLINE

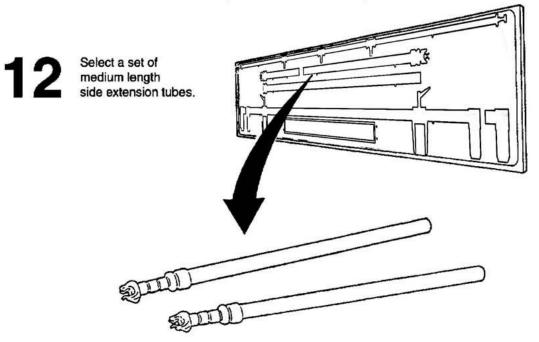


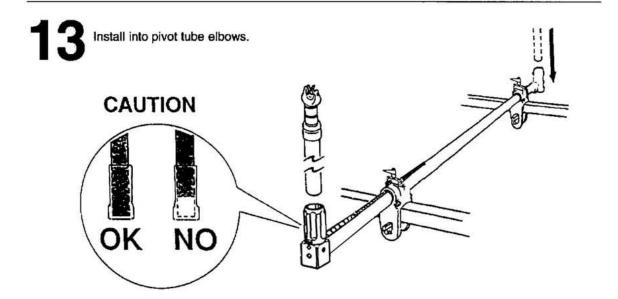
Tighten the hand levers on both sides to the same tension.



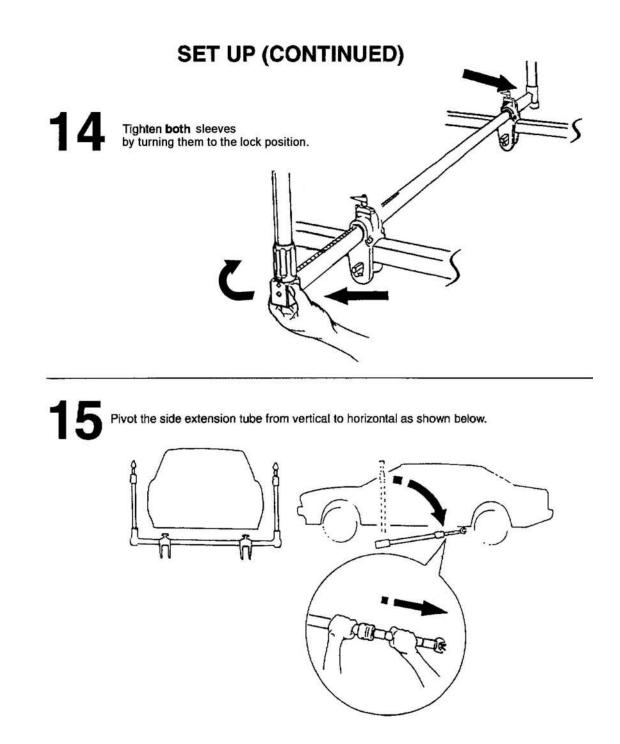


SET UP (CONTINUED)



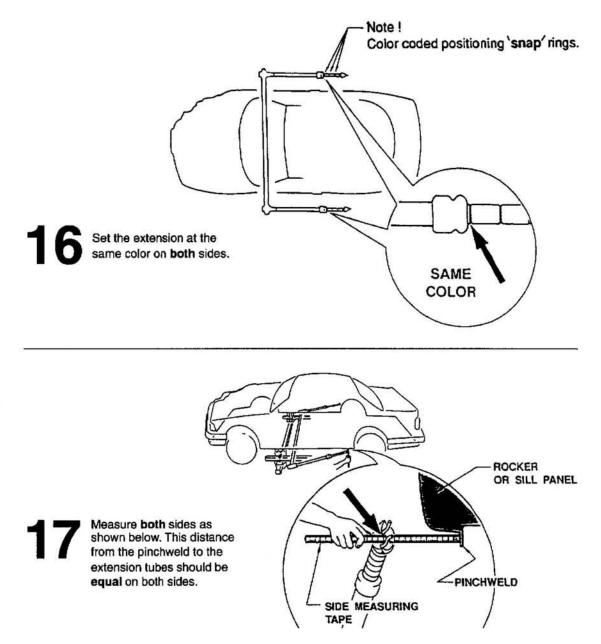






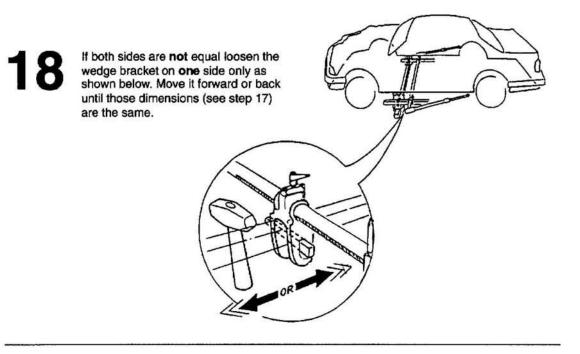


FINAL CALIBRATION, 'SQUARE' PIVOT TUBE



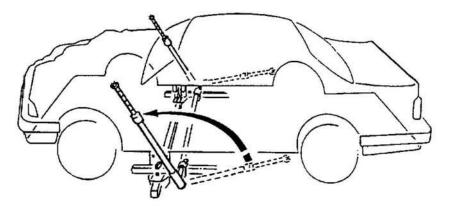


FINAL CALIBRATION, (CONTINUED)

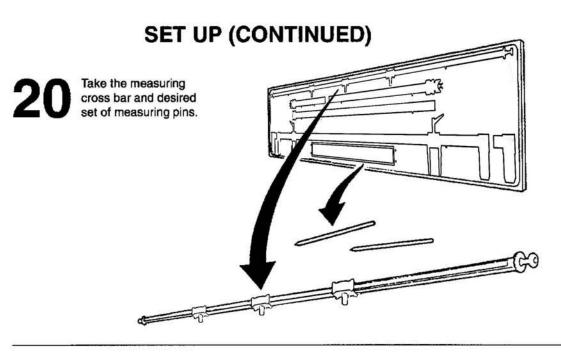


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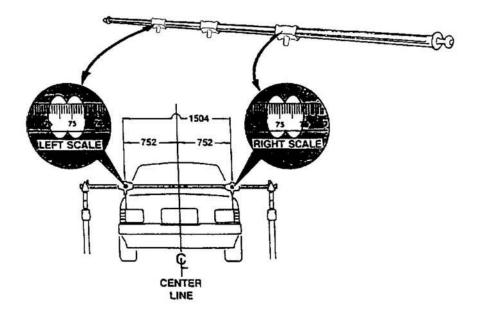
Swing the side tube to the desired area you wish to begin at.







21 Notice how the metric scales read outward from the center Left and Right. Example below shows 752 millimeters.

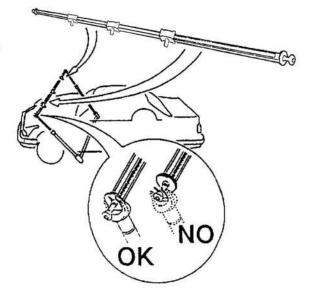




BASIC SET UP COMPLETED



222 Install the measuring cross bar. Check that both ends are snapped in correctly.



NO

OK

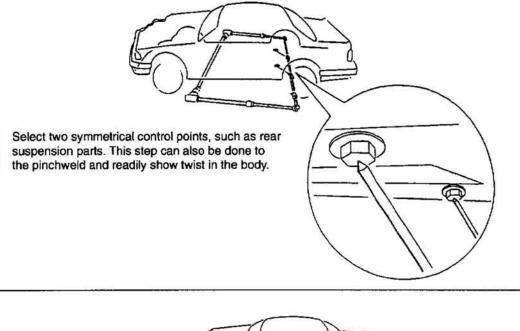


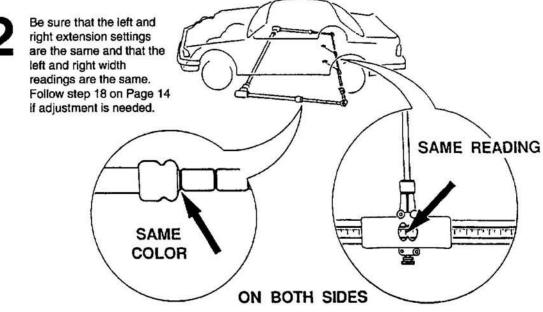
Insert the pointer pins so that they are "bottomed out" correctly.

Now you are ready to begin to check and measure the vehicle. It will take a little extra time in the beginning to become familiar with the almost unlimited uses for the system.



OPTION: CALIBRATE SQUARE TO CONTROL POINTS

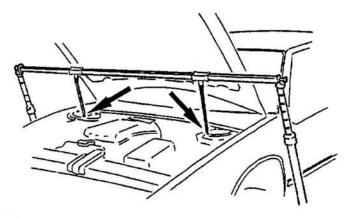




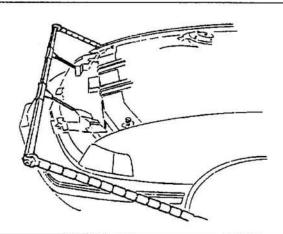


MEASURING EXAMPLES

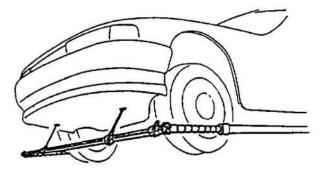
Measuring strut towers. Remember that the measuring pins are three dimensional showing exactly the same point left and right from centerline.



Measure headlight mounting points.



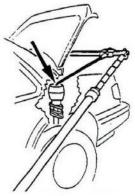
Measure front rails, cross members, and core support. Choose symmetrical points.



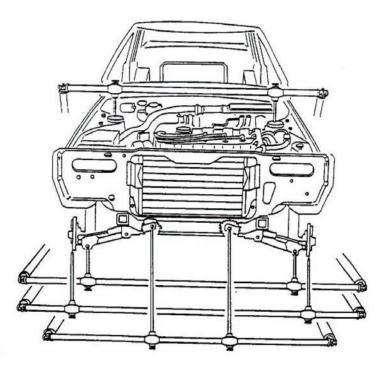


MEASURING EXAMPLES (cont'd)

Measure rear strut locations by reaching in through the trunk opening with long pointer pins.

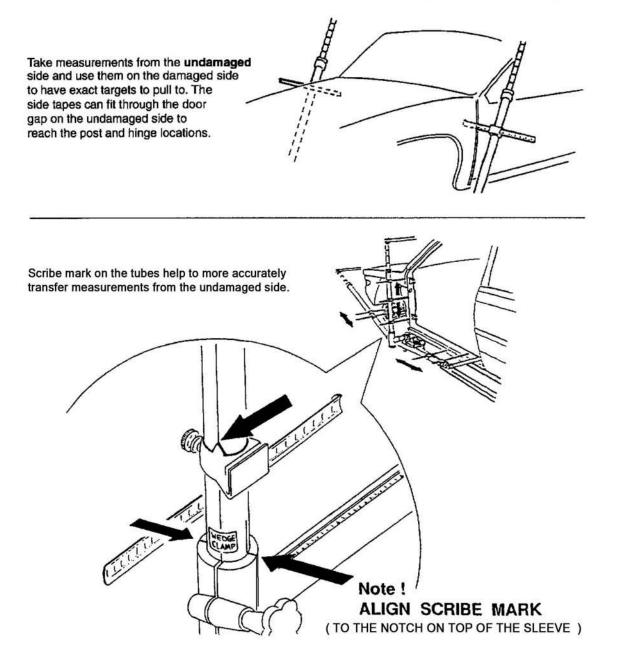


Measure different suspension points for any misalignment, even the rack and pinion.



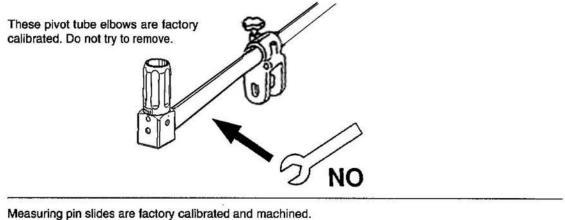


MEASURING EXAMPLES (CONTINUED)





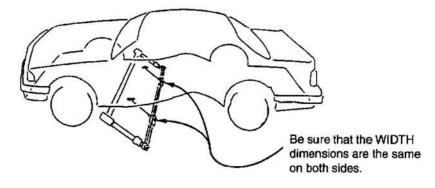
IMPORTANT INFORMATION



Put it back the same way if you take it apart.

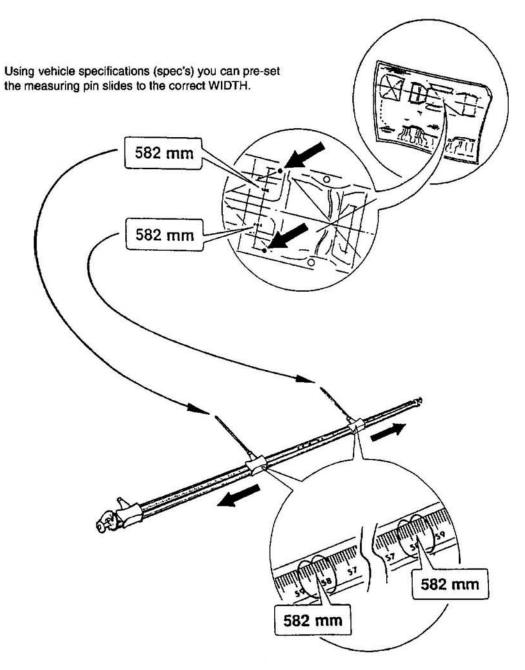


If the pinchwelds are damaged always check CENTERING and SQUARENESS to symmetrical control points. Use the short side extension tubes.



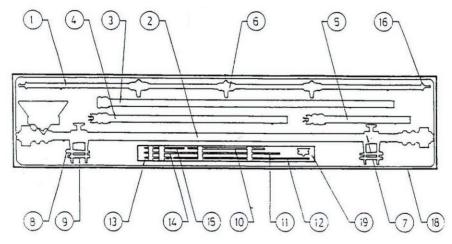


USING WIDTH DIMENSIONS





REPLACEMENT PART LIST



Part No. Description

- 1. 19120 Measuring Crossbar Assembly
- 2. 19050 Pivot Tube Assembly (19150 Extended)
- 3. 15306 Long Side Tube (outer)
- 4. 11026 Medium Side Tube (inner)
- 11027 Medium Side Tube (outer)
- 5. 15323 Short Side Tube (outer)
- 15324 Short Side Tube (inner)
- 6. 19019 Pin Slide Assembly
- 7. 15350 Wedge Bracket Assembly Left (15355 Right)
- 8. 11031 Aluminum Wedge
- 9. 11032 Plastic Pin
- 10. 15321 (355mm) 14" Measuring Pin
- 11. 15322 (546mm) 21 ½" Measuring Pin
- 12. 11028 (685mm) 27" Measuring Pin
- 13. 11030 (140mm) 5 ½" Measuring Pin
- 14. 15320 (203mm) 8" Measuring Pin
- 15. 11029 (279mm) 11" Measuring Pin
- 16. 11056 "O" Ring
- 18. 19001 Tool Board
- 19. 15311 Pin Holder Board

