

HEAVY DUTY FRAME CORRECTION SYSTEMS

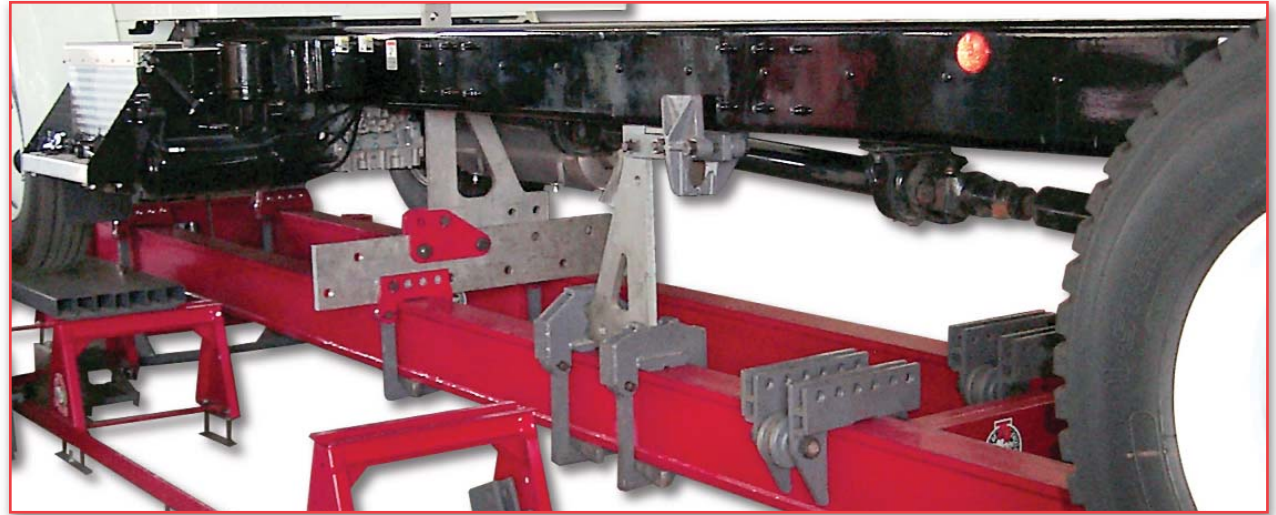


PROVEN FRAME ALIGNMENT SYSTEMS FOR HEAVY DUTY TRUCKS, BUSES, TRACTORS AND TRAILERS

85 YEARS OF FRAME CORRECTION EXPERIENCE MAKES BEE LINE THE EASY CHOICE.

The Bee Line Truck Frame Machine and Press system is the only complete chassis and suspension correction system for heavy-duty vehicles of all types. Considered as the most accurate and efficient chassis and total suspension correction system available today, Bee Line leads the Truck Frame Correction Industry with its vast experience in equipment manufacturing, safety, training, backup service, and profit potential.

With frame correction capabilities in your own shop you no longer have to rely on outside sources to work the job into their schedule. This means you stay in total control of the job and can schedule it through your own shop quickly, which will satisfy your customers and allow you to control quality, scheduling and profits in your own shop. You can do the job quickly and cost effectively which gets your customer's vehicle back on the road where it earns him money. The reduced down time is important to him and to your reputation as an efficient shop with the best equipment.



OUR FRAME PRESS HYDRAULICALLY RAISES TO BRING THE CORRECTION TOOLING TO THE TRUCK. RUNWAY SECTIONS ARE REMOVED TO ALLOW EASY ACCESS AT A COMFORTABLE WORKING HEIGHT.

Bee Line Truck Frame equipment is built tough and versatile to handle all makes up to the heaviest trucks and equipment on the road today.

The Bee Line extra heavy duty frame machine is designed to fit into your shop and to help you increase your production and correct all chassis to better than new. The runways easily adjust from 45" to 100" tread width. (They can be installed to handle wider tread vehicles), giving the Bee Line



OUR PORTABLE FRAME PRESS CAN MAKE ANY BAY A FRAME CORRECTION BAY



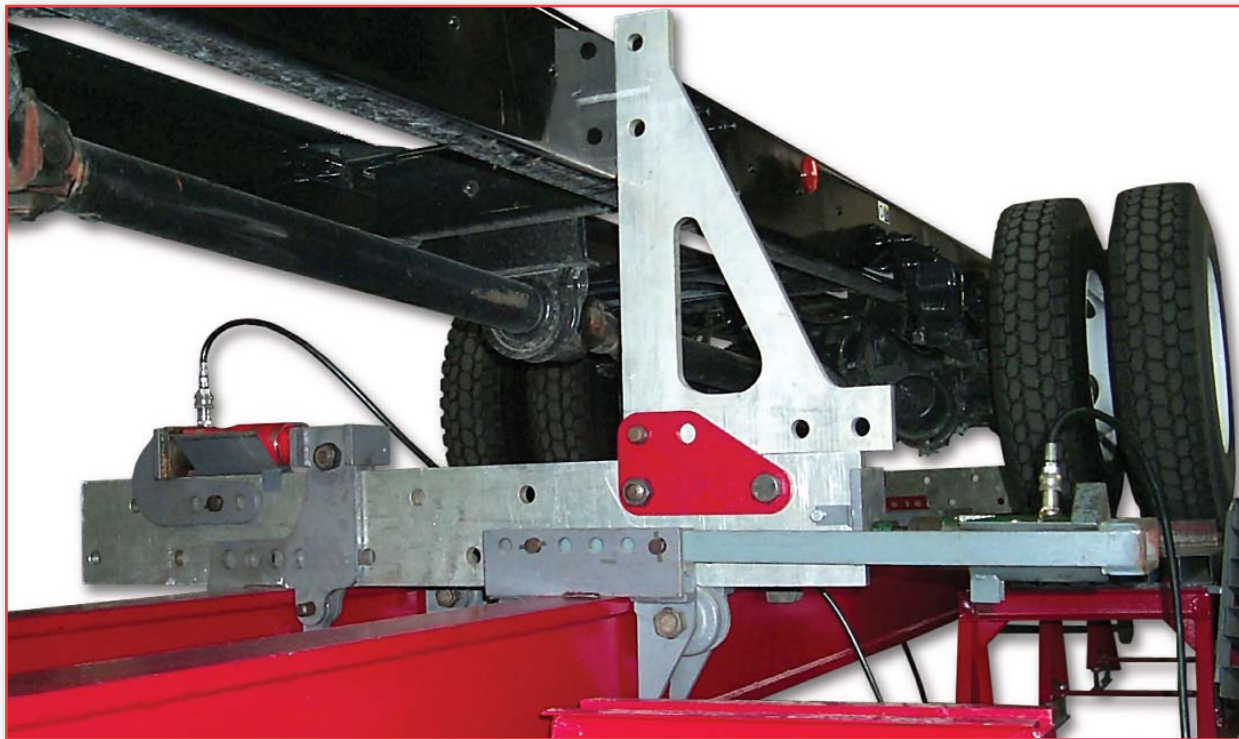
frame machine the ability to handle all sizes of trucks, buses trailers and even specialized equipment. Bee Line's design makes corrections without causing additional damage to the vehicle and without heat. The vehicle retains its original tensile strength.

All Bee Line tools store out of the way for easy positioning on the vehicle. Removable runways simplify locating the damage and positioning of the proper tools. The backbone of the machine is the frame press to which all tie downs, holds, pushes and pulls are connected. The Bee Line tool selection is versatile providing the operator the

safest hook ups with minimal disassembly of the damaged vehicle. These tool hook ups produce direct pressure in exactly the right location of the damaged frame. Power is applied with a hand held fingertip control which allows for individual or multiple application of the necessary amount of pressure to correct the damage without over bending.

Bee Line truck frame and press equipment produces performance and appearance that is as good or better than the original.

The Bee Line frame straightening system allows the operator full control over every part of the truck frame straightening operation. No compromises are necessary when making tool hookups as the Bee Line machine allows the operator the opportunity to position tools into tight places exactly where they are needed to reverse the damage. Side holders can be positioned where the desired correction is needed whether inside of the rails, outside of the frame rails, behind fuel tanks, under cabs, above cabs, behind wheels or any other hard to get to areas that other machines can't reach.

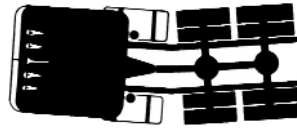
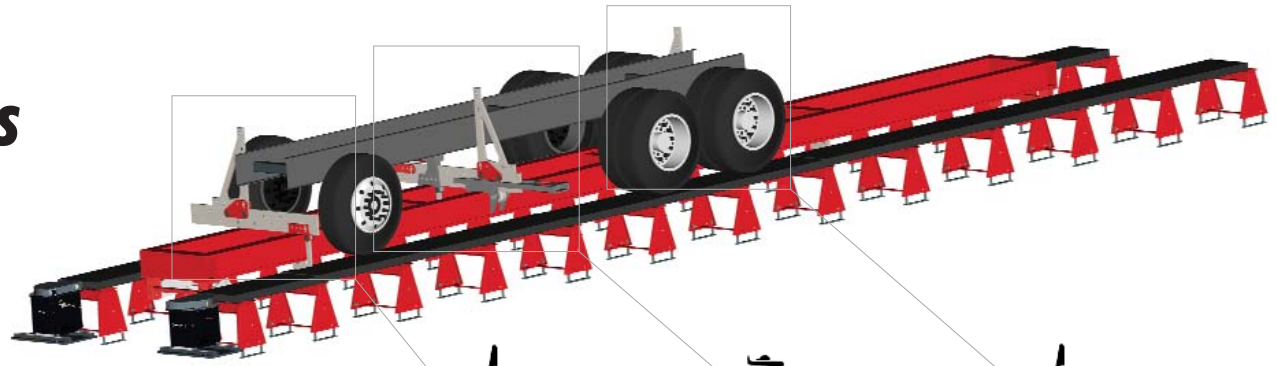


TOOLING IS DESIGNED TO WORK ON TRACTORS, TRAILERS, SCHOOL BUSES AND MOST HEAVY DUTY EQUIPMENT WITHOUT MAJOR DISASSEMBLY. LIGHTWEIGHT ALUMINUM TOOLING MAKES EQUIPMENT SETUP MORE EFFICIENT WITHOUT SACRIFICING STRENGTH.

THE FOUR BASIC MISALIGNMENT CONDITIONS

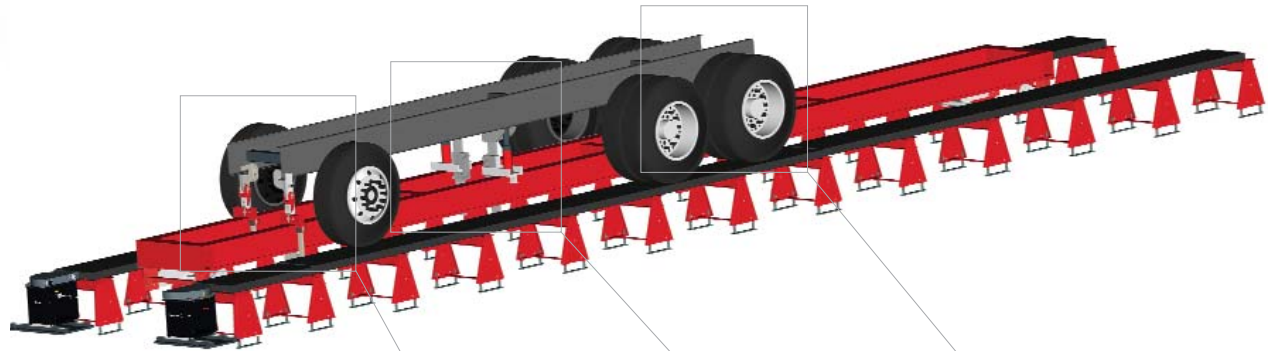
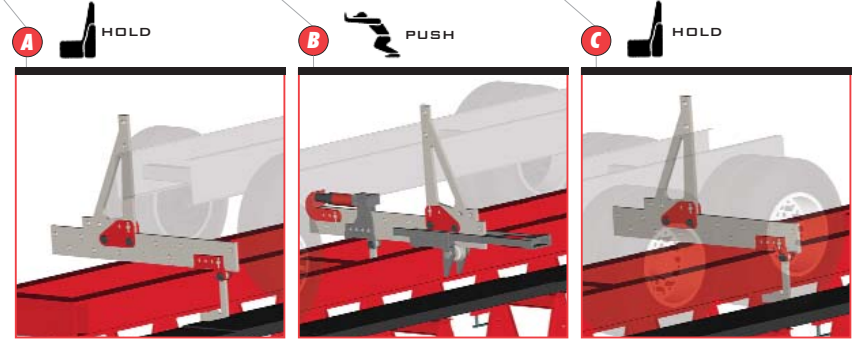
Generally when a truck or trailer frame is damaged, it can be diagnosed as having one or several of the following conditions: Side Sway, Sag, Twist and/or Diamond. These illustrations are designed to explain the time tested Bee Line method for making corrections to each condition. Remember these frame illustrations are stripped down to more conveniently show tool placement.

Bee Line Frame Presses come in a variety of sizes and models. "Drive Through", "Floor" and "Pit" models come in lengths of 28', 36' and 40' while "Portable" models are either 28' or 30'. Bee line also offers tooling for floor "I" Beam applications. This versatility allows the operator to restore the vehicle to its original specifications which produce appearance and performance equal to or better than the day it came off the production line. Even badly damaged vehicles which formerly would be assumed total losses can be rebuilt, cost effectively, with the Bee Line equipment. Once the frame is straightened, the vehicle can be moved to the alignment section of the machine. This patented design makes more power available for correction with much less hydraulic pressure than any other machine on the market.



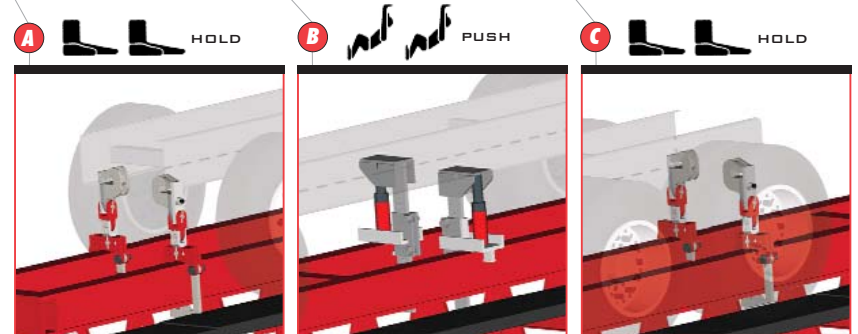
SIDE SWAY

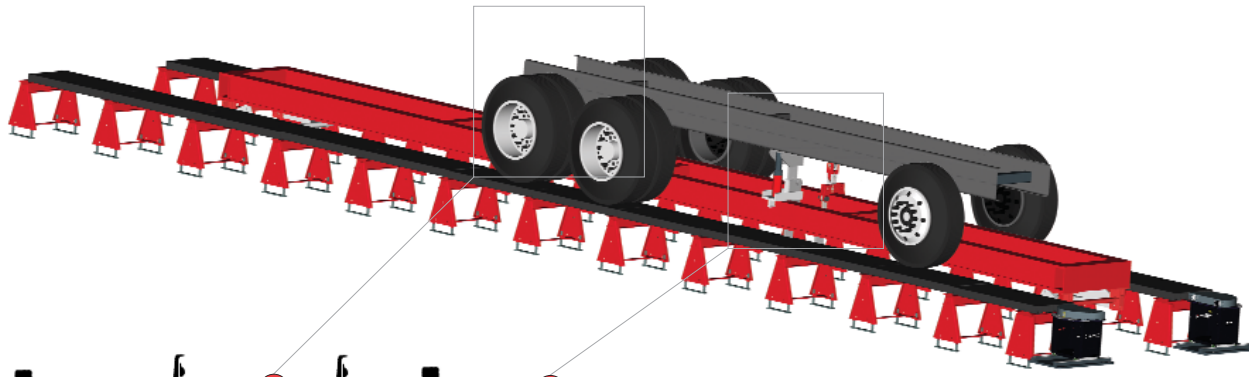
FRAME IS BENT TO THE SIDE.



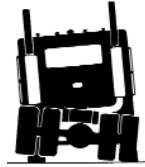
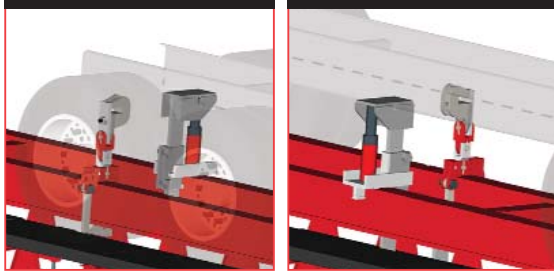
SAG

THE FRAME IS BENT DOWN IN THE MIDDLE.



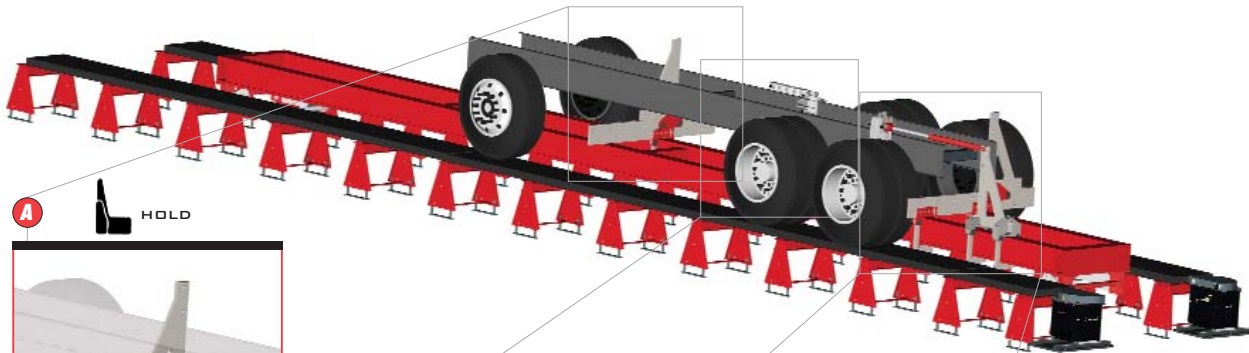


HOLD PUSH **A** PUSH HOLD **B**

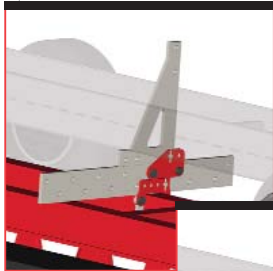


TWIST

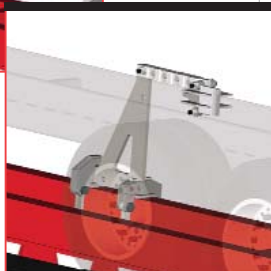
THE VEHICLES FRONT END ROLLS TO ONE SIDE AND THE REAR ROLLS TO THE OPPOSITE END.



A HOLD



HOLD **B**



HOLD **C**



D PULL



DIAMOND

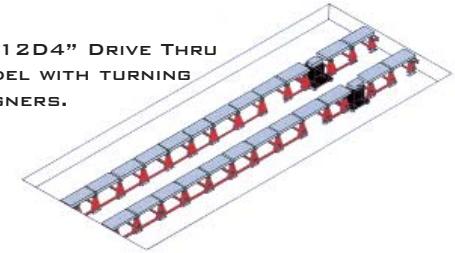
ONE FRAME RAIL HAS MOVED AHEAD OF THE OTHER FRAME RAIL.

Bee Line Truck Frame Machines are designed to fit any installation requirements. Start small in existing space and add on as your business grows.

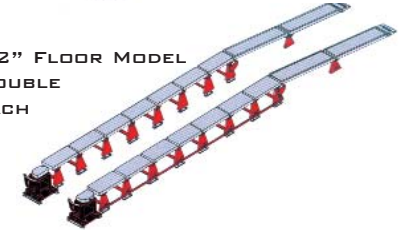
Your shop can have the most versatile and efficient frame equipment available today. Bee Line machines are designed to fit and adapt to shop owners needs and space. The Bee Line truck frame equipment has unlimited possibilities of installation and can be installed in many configurations. Each shop can select the floor plan of their choice for their particular frame and alignment layout.

Here a three sample configurations:

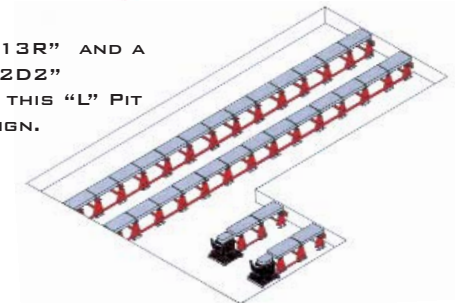
“AA12D4” DRIVE THRU MODEL WITH TURNING ALIGNERS.



“AA7D2” FLOOR MODEL WITH DOUBLE APPROACH RAMP.



“AA13R” AND A “AA2D2” FILL THIS “L” PIT DESIGN.



INNOVATIVE BEE LINE EQUIPMENT INSURES SPEED, ACCURACY AND PROFITABILITY.



OUR SELF CENTERING FRAME GAUGES EXTEND THE CENTERLINE TO THE OUTSIDE OF THE CHASSIS FOR EASY DIAGNOSIS OF MISALIGNMENT CONDITIONS.



A DIAMOND SIGHT GAUGE ATTACHES TO THE REAR-MOST FRAME GAUGE AND DIAGNOSES DIAMOND FRAME CONDITIONS.



THIS DIAMOND CORRECTION SET UP UTILIZES THE FORCE OF A PULL RAM TO BRING THE FRAME RAILS EVEN WITH EACH OTHER.



FRAME GAUGING AND EQUIPMENT SET UP IS DONE AT A CONVENIENT HEIGHT. RUNWAYS CAN BE REMOVED TO ALLOW EASY ACCESS.



THIS TWIST SET UP IS BEING POWERED BY THE BEE LINE 900B 4 VALVE HYDRAULIC PUMP.



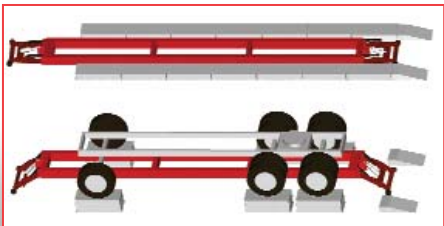
THE 1420 FLANGE FINISHER UTILIZES THE FORCE OF THE 10 TON RAM TO EASILY FINISH BEAMS UP TO 1/2" THICK.



A HAND FLANGE TOOL MAKES CORRECTIONS TO IMPERFECTIONS IN BEAMS. AN EXTENDABLE HANDLE PROVIDES LEVERAGE FOR THE CORRECTION.



THIS TWIST CORRECTION SET UP CAN BE PERFORMED WITHOUT REMOVING THE FUEL TANK.



BEE LINE ALUMINUM RUNWAYS COMPLIMENT TO THE PORTABLE FRAME PRESS. STACKABILITY INSURES VEHICLE SUPPORT WHILE MAKING CORRECTIONS. (ABOVE LEFT)



A TWIST IN AN EXTRA LONG TRACTOR FRAME CAN BE CORRECTED WITH OUR TRAILER TWISTING TOOLS.



THIS TWISTED TRAILER IS BEING CORRECTED WITH OUR TRAILER TWISTING TOOLS. OUR FLOOR "I" BEAM SET UP WORK PRIMARILY WITH TRAILER CORRECTIONS.





THIS REAR AXLE BYPASS SET UP IS CRITICAL IN MAKING PUSHES TO PINPOINTED AREAS WITHOUT REMOVING THE AXLE.



OUR FLANGE PRESS SAFELY REMOVES IMPERFECTIONS TO THE FRAME WITH A HYDRAULIC RAM.



THIS 20 TON C CLAMP CORRECTS THE RADIUS OF A FRAME. INTERCHANGEABLE C CLAMP TOOLING HEADS ALLOW IT TO CORRECT THE SMALLEST IMPERFECTION.



HOLD DOWNS ARE EASILY MADE BY LINKS AND PINS. SLACK IS REMOVED BY LOWERING THE FRAME PRESS, THEN PRESSURE IS APPLIED.



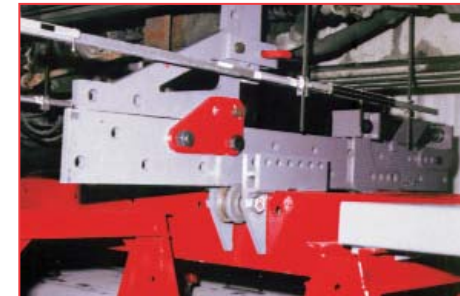
THE BEE LINE POWER TOWER IS AN EXCELLENT TOOL TO COMPLIMENT OUR FRAME PRESS. HIGH CAB OR TRAILER PULLS CAN BE MADE WITH GREAT FORCE.



THIS SET UP FEATURES AN ALUMINUM KNEE TOPPED WITH A BEE LINE KNEE PROTECTOR THAT INSURES FLUSH CONTACT WITH THE FRAME RAIL.



THIS HOLD ON A SIDE SWAY SET UP IS POSITIONED AGAINST THE FRAME RAIL WITHOUT THE FRONT WHEELS BEING REMOVED.



THIS SETUP APPLIES PRESSURE TO AN EXACT POINT ON THE FRAME TO MOVE THE FRAME GAUGES INTO ALIGNMENT.



EXTRA CLEARANCE CAN BE ADDED TO OUR LIGHTWEIGHT ALUMINUM KNEES TO MAKE DIRECT HOLDS ON THE FRAME RAIL.



THIS IS A "DOUBLE PUSH" SET UP USED TO CORRECT A SIDE SWAY CONDITION.



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BEE LINE EQUIPMENT IS BACKED WITH OVER 85 YEARS OF DESIGNING, MANUFACTURING, SELLING AND SERVICING THE INDUSTRY'S NEEDS. BEE LINE FACTORY REPRESENTATIVES, TRAINING, SERVICE, WARRANTY AND FINANCING COMBINE FOR A TOTAL COLLISION CORRECTION AND ALIGNMENT PACKAGE TO MAKE YOU THE BEST EQUIPPED ALIGNMENT SPECIALISTS IN THE INDUSTRY TODAY.

EQUIPMENT, EXPERIENCE, TRAINING AND BACKUP SUPPORT CONTINUE TO BE THE "KEY" TO WHAT DEALERS AND FRAME SHOPS WORLDWIDE LOOK FOR IN AN ALIGNMENT EQUIPMENT MANUFACTURER.

563-332-4066 OR 1-800-728-7828
WWW.BEELINE-CO.COM