

**"ONE SHOT" TENSIONING**

Fenner **PB** belts are Precision Built to ensure inherent length stability and matching during storage and on the drive. Over many years, the principle of "one-shot" tensioning has been verified by successful drives the world over.

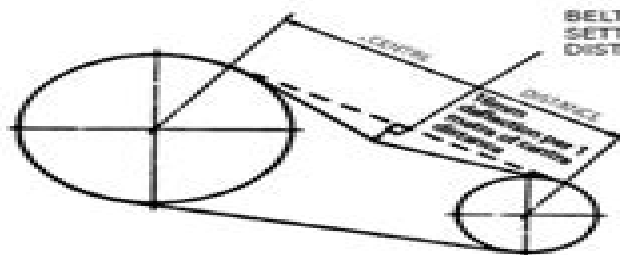
- Install the belts to be a snug fit around the pulleys.
- Spin the pulleys 3-4 revolutions to bed belts into the pulley grooves. (Note: if done manually, beware of finger entrapment between belts and pulleys)
- Tension the belts to the 1.25x setting forces from the table.
- Run the drive under load for 15-20 minutes.
- Stop the drive, check tension & reset to the basic value (standard V and wedge belts) if necessary. CRE Plus & Quattro Plus belts should be reset to the 1.25x value.

With a drive that is properly designed for the application there should be no need for further attention during the life of the belts.

For short centre distance drives where the deflection of the belt is too small to measure accurately it is recommended that both deflection and setting force be doubled.

**Method of belt tensioning using Fenner Belt Tension Indicator**

- Calculate the deflection in mm on a basis of 16mm per metre of centre distance. Centre distance (metres) x 16 = deflection (mm).
- Set the lower marker ring at the deflection distance required in mm on the lower scale.
- Set the upper marker ring against the bottom edge of the top tube.
- Place the belt tension indicator on top of the belt at the centre of span, and apply a force at right angles to the belt, deflecting it to the point where the lower marker ring is level with the top of an adjacent belt.
- Read off the setting force value indicated by the top edge of the upper marker ring.
- Compare this force to the kgf value shown in the table.
- If a Fenner Belt Tension Indicator is not available, a spring balance and rule will suffice.
- With banded belts (pages 68 and 69) use a bar across the band width to ensure even distribution of the force and **DIVIDE** the force measured by the number of belts in the band for comparison with the values in the table above. Alternatively, for the same deflection, use a setting force from the table above **MULTIPLIED** by the number of belts in the band.

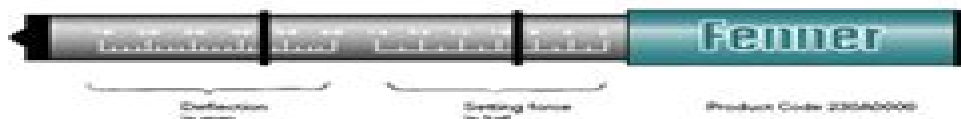


BELT TENSION INDICATOR APPLIES SETTING FORCE AT MID-CENTRE DISTANCE

The setting forces below are designed to cover a wide range of drives. A precise setting force for individual applications can be calculated. Please consult your local Authorised Distributor or use the 'Fenner Select' design software at [www.fptgroup.com](http://www.fptgroup.com)

**SETTING FORCES**

| Belt Section      | Setting force to deflect belt 16 mm per metre of span |                                                  |                                                   |      |
|-------------------|-------------------------------------------------------|--------------------------------------------------|---------------------------------------------------|------|
|                   | Small pulley diameter (mm)                            | Basic setting forces Newtons (N) kilograms (kgf) | 1.25 x setting forces Newtons (N) kilograms (kgf) |      |
| SPZ               | 56 to 71                                              | 16                                               | 20                                                | 2.0  |
|                   | 75 to 90                                              | 18                                               | 22                                                | 2.2  |
|                   | 95 to 125                                             | 20                                               | 25                                                | 2.5  |
| XPSZ & XQSPZ      | over 125                                              | 22                                               | 28                                                | 2.8  |
|                   | 80 to 100                                             | 22                                               | 28                                                | 2.8  |
| SPA               | 105 to 140                                            | 20                                               | 26                                                | 2.6  |
|                   | 150 to 200                                            | 26                                               | 33                                                | 3.3  |
| XPSA & XQPSA      | over 200                                              | 40                                               | 50                                                | 5.0  |
|                   | 110 to 180                                            | 40                                               | 50                                                | 5.0  |
| SPB               | 120 to 224                                            | 30                                               | 38                                                | 3.8  |
|                   | 235 to 305                                            | 42                                               | 53                                                | 5.3  |
| XPSB & XQPSB      | over 305                                              | 66                                               | 83                                                | 8.3  |
|                   | 224 to 250                                            | 70                                               | 87                                                | 8.7  |
| SPC & XQSPC       | over 250                                              | 92                                               | 115                                               | 11.5 |
|                   | over 375                                              | 135                                              | 168                                               | 16.8 |
| EV                | 225 & above                                           | 190                                              | 238                                               | 23.8 |
| A (S, HA, banded) | 56 to 75                                              | 5.5 to 6.8                                       | 6.9 to 8.5                                        |      |
|                   | 80 to 100                                             | 10 to 12                                         | 12.5 to 15                                        |      |
|                   | 125 to 200                                            | 20 to 30                                         | 25 to 37.5                                        |      |
| B                 | 200 to 400                                            | 40 to 60                                         | 50 to 75                                          |      |
| C                 | 250 to 600                                            | 70 to 105                                        | 87 to 131.25                                      |      |

**FENNER BELT TENSION INDICATOR****NOTES:**

For single belt drives a straight edge should be placed across the two pulleys to act as a datum for measuring the amount of deflection.

If the measured force falls within the values given, the drive should be satisfactory. A measured force below the basic value indicates under-tensioning.

A new drive should be tensioned to the 1.25x value to allow for the normal drop in tension during the running-in period.

After the drive has been running for 15-20 minutes, under load the tension should be checked and re-adjusted, if necessary.

**TROUBLE SHOOTING****Small radial cracks on belt side and base**

Generally caused by slippage due to insufficient belt tension, but excessive

heat and/or chemical fumes can also cause the same problem.

**Belt swelling or softening**

Caused by excessive contamination by oil, certain cutting fluids, water or rubber solvent.

**Whip during running**

Often caused by incorrect tensioning, particularly on long centre drives. If a slightly higher (or lower) tension does not cure the problem there may be a critical vibration frequency in the system which requires re-design or use of banded belts. Consult your local Authorised Distributor Technical Services.

**Pulleys**

Pulley groove wear can cause rapid belt failure. Check grooves for wear with a Fenner groove gauge.

# V Belt Tension Guide

**United States. War Department**



## V Belt Tension Guide:

**Reciprocating Compressors:** Heinz P. Bloch, John J. Hoefner, 1996-10-08 Reciprocating compressors and their applications Design and materials of reciprocating compressor components Operation and maintenance of reciprocating compressors Overhaul and repair of reciprocating compressors Troubleshooting compressor problems Preventive maintenance of reciprocating compressors Safety in operation and maintenance Appendix Reciprocating compressor calculations Index *Fundamentals of Automotive Maintenance and Light Repair* Kirk VanGelder, 2019-01-21 Designed to prepare new technicians for ASE G1 Certification Fundamentals of Automotive Maintenance and Light Repair Second Edition covers the foundational theory and skills necessary to prepare entry level technicians to maintain and repair today's light duty vehicles Field Manuals United States. War Department, 1978-07 Practical Plant Failure Analysis Neville W. Sachs, 2016-04-19 Component failures result from a combination of factors involving materials science mechanics thermodynamics corrosion and tribology With the right guidance you don't have to be an authority in all of these areas to become skilled at diagnosing and preventing failures Based on the author's more than thirty years of experience *Practical Plant Failure Analysis A Guide to Understanding Machinery Deterioration and Improving Equipment Reliability* is a down to earth guide to improving machinery maintenance and reliability Illustrated with hundreds of diagrams and photographs this book examines When and how to conduct a physical failure analysis Basic material properties including heat treating mechanisms work hardening and the effects of temperature changes on material properties The differences in appearance between ductile overload brittle overload and fatigue failures High cycle fatigue and how to differentiate between high stress concentrations and high operating stresses Low cycle fatigue and unusual fatigue situations Lubrication and its influence on the three basic bearing designs Ball and roller bearings gears fasteners V belts and synchronous belts Taking a detailed and systematic approach *Practical Plant Failure Analysis* thoroughly explains the four major failure mechanisms wear corrosion overload and fatigue as well as how to identify them The author clearly identifies how these mechanisms appear in various components and supplies convenient charts that demonstrate how to identify the specific causes of failure **Soldier's Manual** United States. Department of the Army, 1980 *Chilton's Guide to Air Conditioning Repair and Service* Chilton Book Company, 1985 Provides maintenance troubleshooting and repair information for automotive air conditioning and related parts for domestic and import cars built between 1982-85 **Volkswagen Transporters T4 Workshop Manual** Owners Edition, 2023-01-31 COVERING SHORT LONG WHEELBASE VAN CARAVELLE BUS 2.0 2.5L PETROL AND 1.9 2.4L DIESEL ENGINES MANUAL TRANSMISSION DRIVE SHAFTS CLUTCH FUEL IGNITION LUBRICATION COOLING SYSTEMS SUSPENSION STEERING BRAKING ELECTRICS BODYWORK PLUS WIRING DIAGRAMS This Owners Edition Workshop Manual covers the VW Transporter Type 4 T4 which was introduced in December 1990 fitted with 2.0 and 2.5 litre petrol engines and 1.9 and 2.4 litre diesel engines It has been specially written for the practical owner who wants to maintain

a vehicle in first class condition and carry out the bulk of his or her own servicing and repairs Comprehensive step by step instructions are provided for service and overhaul operations to guide the reader through what might otherwise be unfamiliar and complicated tasks Numerous drawings are included to amplify the text With the aid of this manual many aspects of service overhaul and repair are within the scope of an owner with a reasonable degree of mechanical aptitude Some operations however demand more skill Other jobs require the use of special tools and in some cases testing facilities and techniques that are not generally available Only you can judge whether a job is within your capabilities We do however try to assist the reader to come to an informed decision Whilst every effort has been made to ensure that the information provided is correct it is obviously not possible to guarantee complete freedom from errors or omissions Information to be found in the driver s handbook is not necessarily duplicated here and it is not possible within this volume to cover every aspect to be found in the manufacturer s own workshop manual which is of much greater size and complexity However it should be consulted if more detailed information is needed Always remember that you are responsible for your own safety and that of others when working on a vehicle Take particular care with safety related systems like the brakes and steering and seek professional advice if in any doubt Never work under a vehicle unless it is properly supported a single jack is not enough Take care with power tools also regard as potentially harmful fuel lubricants solvents and sealers which should always be and kept in labelled sealed containers With care and common sense the practical owner can make an excellent job of maintenance and overhaul The benefits include money saved and the satisfaction of work well done You will be adding to your knowledge too knowing more about the vehicle you own will help you to make logical decisions about what needs to be done even if it does in some instances have to go into a professional repair shop The Volkswagen Transporter T4 is a vehicle that will respond to careful regular servicing and is built to a standard that will ensure a long life if this is remembered

**Fundamentals of Automotive Technology** Kirk VanGelder,Kirk T. VanGelder,2022-02-23 Fundamentals of Automotive Technology Principles and Practice Third Edition is a comprehensive resource that provides students with the necessary knowledge and skills to successfully master these tasks **Chilton Book Company Repair & Tune-up Guide** ,1987

**Porsche 356 Owners Workshop Manual 1957-1965** Trade Trade,2014-08-08 This do it yourself Workshop Manual has been specially written for the owner who wishes to maintain his vehicle in first class condition and to carry out the bulk of his own servicing and repairs Considerable savings on garage charges can be made and one can drive in safety and confidence knowing the work has been done properly Comprehensive step by step instructions and illustrations are given on most dismantling overhauling and assembling operations Certain assemblies require the use of expensive special tools the purchase of which would be unjustified In these cases information is included but the reader is recommended to hand the unit to the agent for attention Throughout the Manual hints and tips are included which will be found invaluable and there is an easy to follow fault diagnosis at the end of each chapter Whilst every care has been taken to ensure correctness of

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*Guidelines for Saving Energy in Existing Buildings* United States. Office of Energy Conservation and Environment,1975 This report examines national energy usage in existing commercial buildings methods of reducing energy consumption through conservation and the resulting costs and benefits It includes a wide range of opportunities and options to save energy and operating costs through proper operation and maintenance It also includes minor modifications to the building and mechanical and electrical systems which can be implemented promptly with little if any investment costs PS, the Preventive Maintenance Monthly ,1957 The Preventive Maintenance Monthly is an official publication of the Army providing information for all soldiers assigned to combat and combat duties The magazine covers issues concerning maintenance maintenance procedures and supply problems **Practical Plant Failure Analysis** P.E. Sachs,2019-10-08 This is a practical guide for those who do the work of maintaining and improving the reliability of mechanical machinery It is for engineers and skilled trades personnel who want to understand how failures happen and how the physical causes of the great majority can be readily diagnosed in the field It explains the four major failure mechanisms wear corrosion overload and fatigue and using easy to read charts how they can be diagnosed at the site of the failure Then knowing the physical failure mechanics involved the reader can accurately solve the human causes To improve the reader s understanding all the diagrams and most of the tables have been redrawn The number of actual failure examples has been increased plus the last chapter on miscellaneous machine elements includes new material on couplings universal joints and plain bearings Features A practical field guide showing how to recognize how failures occur that can be used to solve more than 85% of mechanical machinery failures Incorporates multiple easy to follow logic trees to help the reader diagnose the physical causes of the failure without needing detailed laboratory analysis Explains how the mechanics corrosion materials science and tribology of components can fit together to improve machinery reliability Includes more than 150 completely redrawn charts and tables plus almost 250 actual failure photographs to help guide the reader to an accurate analysis Contains clear and detailed explanations of how lubricants function and the critical roles of corrosion and lubrication play in causing mechanical failures

Guidelines for Saving Energy in Existing Buildings: Building owners and operators manual Dubin-Mindell-Bloome Associates,United States. Office of Energy Conservation and Environment,1975 Electrical Power Production Specialist (AFSC 54252): Engine systems William L. Hall,1984 **Technical Manual** United States. War Department,1944

**Official Gazette of the United States Patent and Trademark Office** ,2007 **Mechanical Design Engineering Handbook** Peter Childs,2018-11-24 Mechanical Design Engineering Handbook Second Edition is a straight talking and forward thinking reference covering the design specification selection use and integration of the machine elements that are

fundamental to a wide range of engineering applications This updated edition includes new material on tolerancing alternative approaches to design and robotics as well as references to the latest ISO and US engineering regulations Sections cover bearings shafts gears seals belts and chains clutches and brakes springs fasteners pneumatics and hydraulics amongst other core mechanical elements This practical handbook is an ideal shelf reference for those working in mechanical design across a variety of industries In addition it is also a valuable learning resource for advanced students undertaking engineering design modules and projects as part of broader mechanical aerospace automotive and manufacturing programs Presents a clear concise text that explains key component technology with step by step procedures fully worked design scenarios component images and cross sectional line drawings Provides essential data equations and interactive ancillaries including calculation spreadsheets to inform decision making design evaluation and incorporation of components into overall designs Includes procedures and methods that are covered to national and international standards where appropriate New to this edition flow charts to help select technology Failure Mode Effects Analysis FMEA product service and system design models Functional Analysis Diagrams FADs Design for Excellence DFX Design for MADE and the process of remanufacture

*Automotive Handbook* Robert Bosch GmbH, 2022-05-02 The latest edition of the leading automotive engineering reference In the newly revised Eleventh Edition of the Bosch Automotive Handbook a team of accomplished automotive experts delivers a comprehensive and authoritative resource for automotive engineers designers technicians and students alike Since 1936 the Bosch Automotive Handbook has been providing readers with of the moment coverage of the latest mechanical and research developments in automotive technology from detailed technical analysis to the newest types of vehicles This newest edition is packed with over 2 000 pages of up to date automotive info making it the go to reference for both engineers and technicians It includes detailed and simple explanations of automotive technologies and offers over 1 000 diagrams illustrations sectional drawings and tables Readers will also find 200 pages of new content including the electrification of the powertrain Additional coverage on new driver assistance systems and the automated detection of vehicles surroundings Updates on the on board power supply for commercial vehicles New discussions of autonomous vehicles as well as additional contributions from experts at automotive manufacturers universities and Bosch GmbH Perfect for design engineers mechanics and technicians and other automotive professionals the latest edition of the Bosch Automotive Handbook will also earn a place on the bookshelves of car enthusiasts seeking a quick and up to date guide to all things automotive

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