

TIMKEN 4525V

Timken 4525V Seal User Manual

Model: 4525V

INTRODUCTION

The Timken 4525V Seal is a precision-engineered component designed to prevent fluid leakage and protect mechanical systems from contaminants. Manufactured to world-class standards, this seal offers superior service life and excellent sealing capabilities, resisting abrasives, corrosive moisture, and other harmful elements. It is primarily used in automotive applications, specifically as a wheel seal.

INSTALLATION

Proper installation is crucial for the optimal performance and longevity of the Timken 4525V Seal. Incorrect installation can lead to premature failure and leakage.

General Installation Guidelines:

- Preparation:** Ensure the housing bore and shaft surface are clean, free of burrs, nicks, and corrosion. Any imperfections can compromise the seal's effectiveness.
- Lubrication:** Lightly lubricate the seal's lip and the shaft with the fluid being sealed (e.g., axle grease or gear oil) to facilitate smooth installation and prevent initial dry running.
- Alignment:** Carefully align the seal with the housing bore. Avoid cocking the seal during insertion.
- Pressing:** Use a seal driver or a suitable press tool that applies even pressure around the outer diameter of the seal. Do not use a hammer directly on the seal, as this can deform it. Press the seal squarely into the bore until it is fully seated.
- Inspection:** After installation, visually inspect the seal to ensure it is seated correctly and that the sealing lip is not damaged or inverted.

Note: For specific vehicle or application instructions, always refer to the vehicle manufacturer's service manual.



Figure 1: Front view of the Timken 4525V Seal. This image shows the primary sealing surface and the robust construction designed for durability.

FUNCTION AND PERFORMANCE

The Timken 4525V Seal is engineered to provide a reliable barrier against the ingress of dirt, moisture, and other contaminants, while simultaneously preventing the escape of lubricants. Its design ensures excellent sealing ability and resistance to abrasive materials, contributing to the extended life of the components it protects.

- **Prevents Seal Leakage:** Designed with precision to maintain a tight seal, minimizing fluid loss.
- **Resists Contaminants:** Acts as a barrier against dust, dirt, water, and other harmful substances that can damage bearings and other internal components.
- **Superior Service Life:** Constructed from durable materials to withstand harsh operating conditions and provide long-term performance.

MAINTENANCE

Seals are wear components and require periodic inspection. While the Timken 4525V Seal is designed for durability, its lifespan can be affected by operating conditions, environment, and proper installation.

Inspection and Replacement:

- **Regular Checks:** Periodically inspect the area around the seal for any signs of leakage (e.g., oil stains, drips).
- **Visual Damage:** Look for visible cracks, hardening, or excessive wear on the seal material.
- **Replacement:** If leakage is detected or the seal shows signs of significant wear or damage, it should be replaced immediately to prevent further damage to the system. It is generally recommended to replace seals whenever components they protect (like bearings) are serviced or replaced.



Figure 2: Angled view of the Timken 4525V Seal, highlighting its robust construction and sealing surfaces.

TROUBLESHOOTING

Most issues with seals are related to improper installation or extreme operating conditions. Here are common problems and their potential causes:

Problem	Possible Cause	Solution
Seal Leakage	Improper installation (cocked, damaged during install), worn seal lip, shaft damage (grooves, corrosion), excessive pressure/temperature, incorrect seal size.	Re-install correctly, replace seal, repair/replace shaft, verify operating conditions, ensure correct seal part number.
Premature Wear	Abrasive contaminants, insufficient lubrication, excessive shaft runout, high temperatures, improper material compatibility.	Improve contamination control, ensure proper lubrication, check shaft alignment, verify temperature limits, use correct seal material for application.
Seal Blow-out	Excessive internal pressure, incorrect seal design for pressure application, improper installation.	Verify system pressure, ensure seal is rated for application, re-install correctly.

SPECIFICATIONS

Key specifications for the Timken 4525V Seal:

- **Brand:** TIMKEN
- **Model:** 4525V
- **Item Weight:** 3.2 ounces (approx. 90.7 grams)
- **Product Dimensions:** 4.9 x 4.9 x 0.8 inches (approx. 12.4 x 12.4 x 2.0 cm)
- **Exterior:** Machined
- **Manufacturer Part Number:** 4525V
- **ASIN:** B000BZ960Y
- **First Available:** November 4, 2005

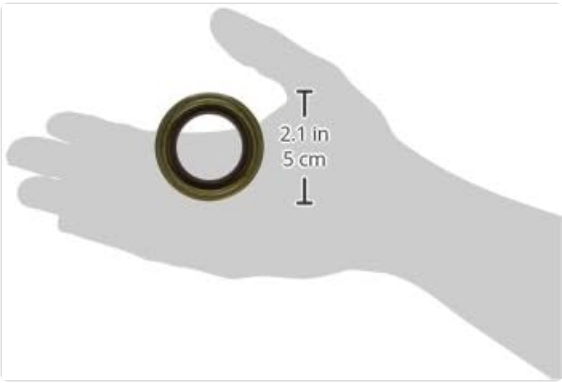


Figure 3: Timken 4525V Seal shown with approximate dimensional reference, indicating its compact size.


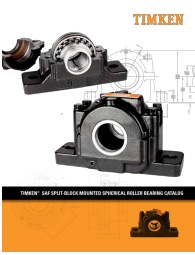



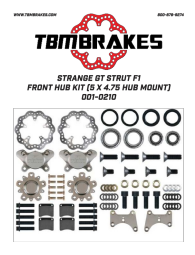
WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or specific application questions for the Timken 4525V Seal, please contact TIMKEN directly through their official website or customer service channels. Always refer to the manufacturer’s official documentation for the most accurate and up-to-date warranty terms and support procedures.

Manufacturer: Timken

Website: www.timken.com (Note: This is a general link and may not lead directly to product support.)

Related Documents - 4525V

	<p>Euclid Brake and Wheel End Parts Catalog</p> <p>Comprehensive catalog of Euclid brake and wheel end parts, featuring detailed listings, diagrams, and part numbers for various truck and trailer applications. Includes components from leading manufacturers like Bendix, Dexter, Eaton, and Meritor.</p>
	<p>Timken® SAF Split-Block Mounted Spherical Roller Bearing Catalog</p> <p>Comprehensive catalog detailing Timken® SAF Split-Block Mounted Spherical Roller Bearings, including engineering specifications, mounting instructions, lubrication guidelines, and product dimensions for various series and applications.</p>
	<p>JIMS® Tool #1710: Timken Bearing Snap Ring Installer & Remover for Big Twin (1969-2002) - Instruction Sheet</p> <p>Instruction sheet for the JIMS® Tool #1710, a Timken bearing snap ring installer and remover designed for Big Twin motorcycles from 1969-2002. Includes usage steps, safety precautions, and compatibility notes.</p>
	<p>Timken SAF Split-Block Housed Units Catalog and Technical Guide</p> <p>Explore the Timken SAF Split-Block Housed Units Catalog, featuring detailed specifications, engineering data, mounting instructions, and lubrication guides for high-capacity spherical roller bearings. Essential for industrial applications.</p>
	<p>Timken National Industrial Seals Catalog</p> <p>Explore Timken's comprehensive range of National Industrial Seals, including Redi-Seals and Shaft Repair Kits. This catalog provides detailed product specifications, selection guides, and interchange information for optimal equipment performance and maintenance.</p>
	<p>TBM Brakes Strange GT Strut F1 Front Hub Kit Installation and Maintenance Guide</p> <p>Comprehensive guide for installing and maintaining the TBM Brakes Strange GT Strut F1 Front Hub Kit (5 x 4.75 Hub Mount), including parts list, hardware list, step-by-step instructions, and important maintenance tips.</p>

[\[pdf\]](#) User Manual Specifications Dimension Guide Guide Catalog

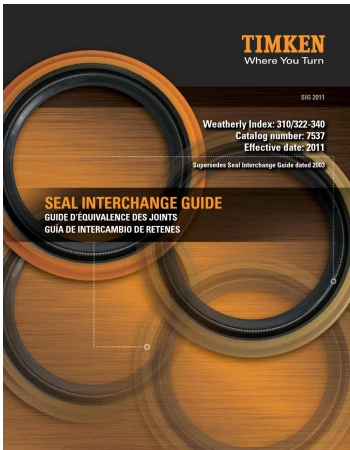
seals dvi TIMKEN SEAL SPECIFIC SEAL SPECIFICATION GUIDE EATION GUIDE equipment manufacturer s instruction manual specifications and guidelines The information referenced is deemed reliable but not guaranteed Timken Corporation reserves the right to make changes amendments of any information displayed also functional substitutions in type timken seal specification guide us SealSpecGuide7533 basco pe 80 de products Documents



SSG SEAL SPECIFICATION GUIDE THE TIMKEN COMPANY SEAL SPECIFICATION GUIDE INTRODUCTION The Timken C ... 0 2.500 2.500 Bore 4.035 4.250 4.500 O.D. 4.040 4.260 6.125 Width 0.634 0.500 0.400 Part Number **4525V** 355732 7512SSO 2.500 4.938 4.943 0.500 3136N 2.503 2.503 3.428 3.239 0.709 4561V 2.503 3.62... lang:en **score:38** filesize: 1.96 M page_count: 204 document date: 2008-01-14

[\[pdf\]](#) Reference Guide Guide Catalog

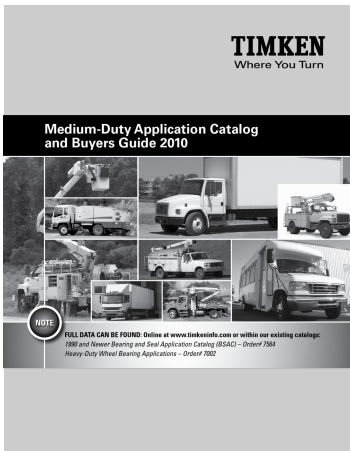
Timken Seal Interchange and Cross Reference Guide automotive seals car truck bearing seal interchange cross reference The Company timken en in products Documents 80 es ko kr ro ru zh cn



SIG 2011 Weatherly Index: 310/322-340 Catalog number: 7537 Effective date: 2011 Supersedes Seal Inte 471271 155PKG NATION 155R 15634020 GM **4525V** 1566687 CLARK 417040 15567 FELTPR 45512... lang:fr **score:28** filesize: 5.71 M page_count: 163 document date: 2011-12-15

[\[pdf\]](#) Guide Buyer's Guide Catalog

Medium Duty Application Catalog and Buyer s Guide 2010 truck Chevrolet GMC Dodge Ford Hino Isuzu Mack Mitsubishi UD The Timken Company Apps Buyers timken en in products Documents 80 es ko kr ro zh cn



Medium-Duty Application Catalog and Buyers Guide 2010 NOTE Full data can be found: Online at www.t ... 5C RU1570UM SEALS TIMKEN P/N 2081 2692 370001A 370003A 370023A 370047A 3909 415960 4160 4250 4278 **4525V** 455086 475960 482041N 493291 710454 719316 9316 9845 TAPERED BEARINGS TIMKEN P/N 15101 15245 ... lang:de **score:25** filesize: 1.64 M page_count: 37 document date: 2011-12-15

[\[pdf\]](#) Specifications Dimension Guide Guide Catalog

Seals Specification Guide guidelines seal nomenclature design types shaft recommendations housing bore operating conditions material selection tolerances installation V seals KWIK sleeve conversion chart oil bath inch meter O rings The Timken Company Seal timken en us products Documents ko kr



SSG SEAL SPECIFICATION GUIDE THE TIMKEN COMPANY SEAL SPECIFICATION GUIDE INTRODUCTION The Timken C ... 0 2.500 2.500 Bore 4.035 4.250 4.500 O.D. 4.040 4.260 6.125 Width 0.634 0.500 0.400 Part Number **4525V** 355732 7512SSO 2.500 4.938 4.943 0.500 3136N 2.503 2.503 3.428 3.239 0.709 4561V 2.503 3.62... lang:en **score:19** filesize: 2.03 M page_count: 204 document date: 2011-12-15



[\[pdf\]](#) Guide Catalog

1990 and Newer Bearing Seal Application Catalog newer bearings seals catalog automobile truck hub unit cross reference buyer s guide installation removal maintenance wheel shaft front rear trailer import domestic Acura Alfa Romeo Audi Aston Martin Avanti II Bentley BMW Buick Cadillac Chevrolet Chrysler Daewoo Diabatsu Dodge Eagle Ferrari Ford GEO GMC Grumman Honda Hummer Hyundai Infiniti International Isotta Isuzu Jaguar Jeep KIA Laforza Lamborghini Lexus Lincoln Maserati Mazda Mercedes Benz L The Timken Company timken en in products Documents us pt br zh cn

Weatherly Index: 310/322-340 Catalog number: 7564 Effective date: 2010 Supersedes BSAC 2006 dated 20 ... nt. 2000-1990 Dana/Spicer 80 Axle Seal Viton **4525V** Cone/Cup Inner HM807046- HM807010 Cone/Cup OuterM80...

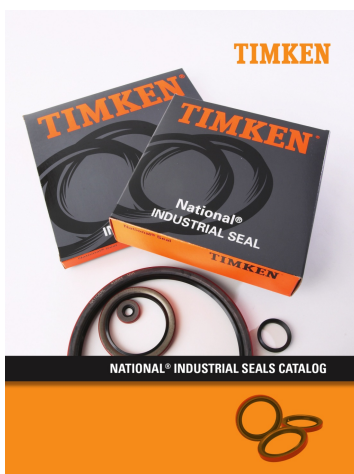
lang:en **score:18** filesize: 13.25 M page_count: 673 document date: 2011-12-13

[\[pdf\]](#) Catalog

Seals Catalog Inside B Diana Maynard Komjati NSCOilSeals410027to9Y9895 timken en us products Documents

OIL SEALS 410027 4128 Mfr. No. Zero Duplication or Recommended Name Industrial Mfr. No. Zero Du416271 42548 GARLK470605 42427 SPICE **4525V** 424B3 C-R417487 42530527 ALLCH416271 42548...

lang:i-klnglon **score:16** filesize: 2.47 M page_count: 145 document date: 2006-03-10



[\[pdf\]](#) Catalog

7707 National Indust Seals Catalog timken

NATIOCN YALLINDINRDICUASLTRRIOALLLESREABLESACRAINTAGLCOAGTALOG Timken offers an extensive line of s ... 45 41 45 45 47 48 4.003 4.003 4.035 4.008 4.008 4.040 .468 .468 .634 S S V * * 475655 485655 **4525V** 47 48 87 41 4.035 4.042 .492 V 100727 # 41 4.250 4.260 .500 S 355732 35 45 45 4.500...

lang:en **score:15** filesize: 31.53 M page_count: 716 document date: 2016-06-03

TIMKEN

Page	Section
1	Introduction
2	Seal Selection
3	Seal Installation
4	Seal Maintenance
5	Seal Troubleshooting
6	Seal Specifications
7	Seal Interchangeability
8	Seal Applications
9	Seal Accessories
10	Seal Ordering
11	Seal Contact Information
12	Seal Index

[\[pdf\]](#) Catalog

Seals Catalog Inside B Diana Maynard Komjati NSCORingsOilSealsupto410005 timken en us products

Documents

Width 1/32 3/64 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 1/16 ...

... .416654 B1AZ7052B FORD470380 B370020BG SPG ...

370020A B4525VAO SPG ... **4525V** B132704AD B-L-H415995

B203 ITM

lang:da **score:14** filesize: 4.04 M page_count: 237 document date: 2006-03-10



[Timken National Industrial Seals Catalog](#)

Explore Timken's comprehensive range of National Industrial Seals, including Redi-Seals and Shaft Repair Kits. This catalog provides detailed product specifications, selection guides, and interchange information for optimal equipment performance and maintenance.

lang:en **score:14** filesize: 6.26 M page_count: 701 document date: 2006-03-16

TIMKEN

Page	Section
1	Introduction
2	Seal Selection
3	Seal Installation
4	Seal Maintenance
5	Seal Troubleshooting
6	Seal Specifications
7	Seal Interchangeability
8	Seal Applications
9	Seal Accessories
10	Seal Ordering
11	Seal Contact Information
12	Seal Index

[\[pdf\]](#) Catalog

Seals Catalog Inside B Diana Maynard Komjati NSCNumeric Metricsections timken en us products

Documents

Part No. 1012 1012N 1015 1015N 1019F 1021F 1021VF 1036G 1037 1038G 1041

1049 * * 1070 1077 * 1 ... 1.375 # 4857FG 79 4874NF V 1.400 2.282 2.288 .547 86 N

2.748 3.543 3.555 .591 # * 4512FG **4525V** N 2.375 4.498 4.504 .860 V 2.500 4.035

4.040 .634 # 4875NG 87 4876NG N 3.250 4.249 4.282...

lang:i-klnglon **score:13** filesize: 1.96 M page_count: 148 document date: 2006-03-10

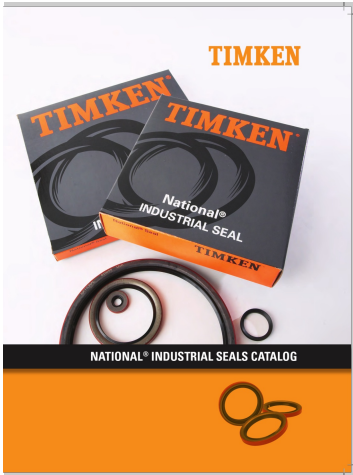


[\[pdf\]](#) Catalog

Motive Gear Performance Driveline Axles Catalog performance axles bearings hubs cv joints u driveline aftermarket parts driveshafts boots differentials seals transfer cases CARiD catalog carid images motive gear info |||

MOTIVE GEAR TABLE OF CONTENTS CHRYSLER 7.25 3 CHRYSLER 8 STANDARD ROTATION 5 CHRYSLER 8 R ... OMPOUND, THREAD LOCKER IK FOR DANA 80 FOR DODGE 94- 02 2500/3500 MOTIVE PART # 1132 37082 37104 **4525V** 50563 34822 42430 44192 1111 1106 42433 10726 GMC1 9440B INSTALLATION COMPONENTS PRE LOAD SHI...

lang:i-klngon **score:10** filesize: 7.9 M page_count: 276 document date: 2018-04-18



[\[pdf\]](#) Catalog

National Indust Seals Catalog 7707 timken resources national industrial seals catalog 2020 02

NATIONAL INDUSTRIAL SEALS CATALOG Seals Catalog Inside B 4/1/05 4:50 PM Page 2 Timken offers an ex ... 0.250 0.250 99253 Redi-Sleeve F 5M89 # N 3136N1,6 47 V 3894V 48 S 39421,7 284 S 42501,6 V **4525V** S 7512SSO H 7581H7 T 398035 74 72 51 48 FW-H S 40337S 4S L 40555 4L S 40555S 4S 1Redic...

lang:en **score:10** filesize: 4.85 M page_count: 712 document date: 2020-02-14

TABLE OF CONTENTS	
	PAGE
AMC 20 STYLE	8
CHRYSLER 7.25" STYLE	8-9
CHRYSLER 8.25" FRONT STYLE	9
CHRYSLER 8.25" & 8.375" STYLE	10
CHRYSLER 8.75" 741 EARLY STYLE	10-11
CHRYSLER 8.75" 742 EARLY STYLE	11-12
CHRYSLER 8.75" LATE 486 STYLE	12
CHRYSLER 9.25" 85 FRONT STYLE	13
CHRYSLER 9.25" REAR STYLE	13-14
CHRYSLER 10.5" 14 BOLT REAR STYLE	15
CHRYSLER 11.5" 14 BOLT REAR STYLE	16
DANA 30 STYLE	17
DANA 35 & 35 P5 STYLE	17
DANA 44 STYLE	18-19
DANA 50 STYLE	19-20
DANA 60 STYLE	21
DANA 70 STYLE	22-23
DANA 80 STYLE	24
FORD 7.5" STYLE	25
FORD 9" STYLE	26
FORD 9" STREET GEARS STYLE 1987 & UP	27
FORD 9" PERFORMANCE STYLE 1987 & UP	28
FORD 9" PERFORMANCE STYLE 'X' SERIES - LIGHT WEIGHT RACK&PINS	29
FORD 9" STYLE PRO GEARS	30
FORD 9.75" STYLE	31
FORD 10.25" STYLE EARLY 1983-1988	32
FORD 10.25" STYLE LATE 1983-1988	33
FORD 10.5" STYLE 1989 & LATER	33
GMP 7.2" STYLE	33-34
GMP 7.2" 7.5" 8.5" STYLE	35
GMP 7.8" 8.5" FRONT STYLE	35
GMP 7.75" 8.5" WARMER STYLE	36
GMP 8" 8" STYLE	36
GMP 8.25" 10 BOLT STYLE 1985-1994 CAR	37
GMP 8.25" 10 BOLT STYLE 1994-1995 CAR	38
GMP 8.25" 10 BOLT STYLE 1994-1995 CAR	38-39
GMP CORVETTE STYLE 1987 & LATER	40
GMP 8.25" 8.5" STYLE FRONT	40-41
GMP 8.5" 10 BOLT FRONT & REAR / 8.5" 10 BOLT REAR STYLE	41-42
GMP 8.5" 10 BOLT STYLE CAR	42

[\[pdf\]](#)

Motive Gear Ring Pinions Bearing KitsGMC Sierra C3500 HD WikiMotive And Kitstiny micros mediawiki images 3 3f Kits |||

TABLE OF CONTENTS PAGE AMC 20 STYLE
. KIT NO. DESCRIPTION DANA 80 PINION SHIMS 1111 CARRIER SHIMS 1106 CRUSH SLEEVE 1132 PINION SEAL **4525V** PINION NUT 37082 RING GEAR BOLT 42433 COVER GASKET 107276 24 FORD 7.5 STYLE MODEL# AER...

lang:i-klngon **score:9** filesize: 9.77 M page_count: 120 document date: 2011-01-20