

# STEMCO®

# AXLE NUTS

# ADVANCED AXLE SPINDLE NUTS

## PRO-TORQ®



### Longer Tread Life

Fleets save tires, wheels track truer. PRO-TORQ® controls axial motion, holding bearing end play near zero while maintaining exact cup and cone alignment on the spindle. This is good news for radial tires. PRO-TORQ® delivers the adjustment precision which experts agree is needed to maximize radial tire life.

### Extended Wheel Seal and Bearing Service

PRO-TORQ® supports seal, bearing and axle manufacturers' specifications. With PRO-TORQ's® tight control on wheel bearing adjustment, fleets minimize premature seal failure and improve extended seal and brake lining programs. PRO-TORQ® compensates for normal bearing wear, permitting precise .001" back-off increments at scheduled preventative maintenance intervals. This keeps bearings properly aligned, running cooler and lasting longer.

### Improves ABS

PRO-TORQ's® reliable low end play bearing adjustment and axial motion control helps assure accurate wheel end sensor monitoring of wheel speeds on antilock braking systems.



**STEMCO®**

*A Higher Standard of Performance.™*  
an EnPro Industries company

# PRO-TORQ®

## Advanced Axle Spindle Nuts



A Higher Standard of Performance.™

an EnPro Industries company

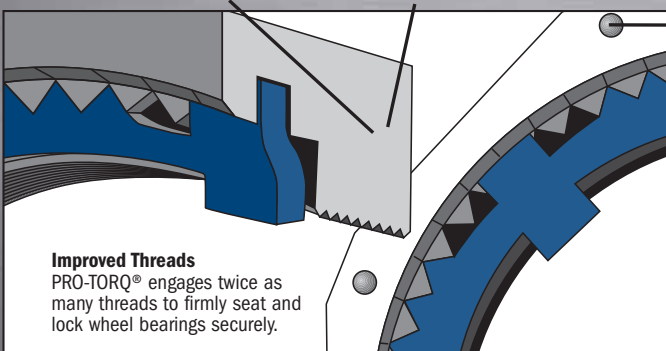
SPINDLE NUT APPLICATIONS	REPLACEMENT KEEPER PART NUMBER	THREAD SIZE	OUTER BEARING CONE/CUP	TOOL SOCKET
<b>TRAILER AXLE</b>				
<b>STEMCO No. 447-4723</b> Fruehauf Pro-par, Meritor TP *Axle date code post January 1, 2006	450-4723 TANG	3.480"-12	HM518445/ HM518410	4 13/16"- 8 point (OTC# 1941)
<b>STEMCO No. 447-4724</b> 22,500#-23,000# Eaton, EST 230-P, EST 225-P, P-22	450-4723 TANG	3 1/2"-12	HM518445/ HM518410	4 13/16"- 8 point (OTC# 1941)
<b>STEMCO No. 447-4743</b> 17,000#-22,500# Meritor, Dana, Eaton, Std Forge, Ingersoll	450-4743 TANG	2 5/8"-16	HM212049/ HM212011	3 3/4"- 8 point (OTC# 1925)
<b>STEMCO No. 449-4973</b> Dana Est-230-P, *P22 Axles or TQ *Axle date code prior to January 1, 2006	450-4973 TANG	3 1/4"-12	HM518445/ HM518410	4 3/8"- 8 point (OTC# 1917)
<b>STEER AXLE</b>				
<b>STEMCO No. 448-4836</b> 12,000# Meritor, Navistar	450-4836 D-FLAT	1 1/2"-12	3782/3720	2 1/2"- 6 point (OTC# 1921)
<b>STEMCO No. 448-4837</b> 12,000# Eaton, Ford, Meritor	450-4837 TANG	1 1/2"-18	3782/3720	2 1/2"- 6 point (OTC# 1921)
<b>STEMCO No. 448-4838</b> Meritor	450-4837 TANG	1 1/2"-12	3782/3720	2 1/2"- 6 point (OTC# 1921)
<b>STEMCO No. 448-4839</b> 12,000#, 14,300# Mack	450-4839 D-FLAT	1 5/8"-12	45280/45220	2 5/8"- 6 point (OTC# 1922)
<b>STEMCO No: 448-4840</b> Steer Spindle	450-4836 D-FLAT	1 1/2-18	3782/3720	2 1/2"-6 point (OTC# 1921)
<b>STEMCO No: 448-4863</b> ArvinMeritor® FH Axle 16,500# GAW	450-4863 D-FLAT	2 1/4-12	N/A	3 1/2"- 6 point (OTC# 1910)
<b>STEMCO No. 448-4864</b> 18,000#, 20,000# Mack	450-4864 D-FLAT	2"-12	555S/552A	3"- 6 point (OTC# 1906)
<b>STEMCO No. 448-4865</b> Meritor FL Series	450-4865 D-FLAT	1 3/4"-12	555S/552A 3720/3979	3"- 6 point (OTC# 1906)
<b>DRIVE AXLE</b>				
<b>STEMCO No. 449-4904</b> 34,000#, 38,000#, 44,000# Mack	450-4904 TANG	2 7/8"-12	47679/47620 575/572 567/563	4 1/8"- 6 point (OTC# 1915)
<b>STEMCO No. 449-4973</b> 34,000#-46,000# Eaton, Meritor, Dana, Navistar, 50,000# Mack	450-4973 TANG	3 1/4"-12	580/572	4 3/8"- 8 point (OTC# 1917)
<b>STEMCO No. 449-4974</b> Meritor, Eaton, Ford, Navistar	450-4743 TANG	2 5/8"-12	3984/3920 39590/39520	3 3/4"- 8 point (OTC# 1925)
<b>STEMCO No. 449-4975</b> 19,000# Dana, Navistar, Bluebird	450-4975 TANG	2 5/8"-12	3984/3920 39590/39520	3 3/4"- 8 point (OTC# 1925)

### Good Wear Resistance

Bearing contact surface is induction hardened. No washers required.

### Flat Contact Surface

Improves wheel bearing cup and cone alignment.



### Improved Threads

PRO-TORQ® engages twice as many threads to firmly seat and lock wheel bearings securely.

### Highly Visible Adjustment Marks

Give mechanics precise control of nut backoff amount during installation.

### Infinite Locking Positions

Nut and spring steel keeper mate and lock at any point on the axle spindle in .001" axial increments.

### Cost Saving Installation

For more than 10 years, leading fleets have chosen PRO-TORQ® to deliver the longer service life they expect from today's tires, wheel seals and bearings. PRO-TORQ® minimizes variability in wheel bearing adjustment, which means extended maintenance intervals and trouble-free performance from steer, drive and trailer axle wheel ends.

### Tight Control on Bearing Adjustment

PRO-TORQ® gives fleets the ability to standardize wheel end maintenance practices and makes repeatable, close tolerance bearing adjustment a reality. From mechanic to mechanic, PRO-TORQ® single nut systems and adjustment procedure will consistently secure the nut with wheel bearing adjustment accuracy in the range of .001-.003" end play.

PRO-TORQ® avoids the extremes of both preload and excessive bearing end play. It gives fleets the tightest adjustment standard in the industry.

### Faster to Install, Easier to Lock

PRO-TORQ® assures that bearings are "positive" locked in precise position the first time. That's because PRO-TORQ® uses only one nut — no jamming, juggling or time wasted while repositioning multiple nut assemblies.

Clearance in the threads of traditional "jamming" type nuts can result in a wide range of final settings. A mechanic can unintentionally impose preload on a bearing by overtightening the jamnut. As a result, the outer bearing cone can be pushed further up the spindle and out of its intended position.

PRO-TORQ® takes the guesswork out of bearing adjustment!

### STEMCO LP - USA

P.O. Box 1989 · Longview, TX 75606-1989  
(903) 758-9981 · 1-800-527-8492  
FAX: 1-800-874-4297  
www.stemco.com

### STEMCO - Canada

5900 Ambler Drive, Units 4 & 5  
Mississauga, ON L4W 2N3  
(905) 206-9922 · 877-232-9111  
FAX: 877-244-4555

### ISO/TS 16949

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## Applications and Specifications

### STEMCO Part Number

## 447-4723

Replacement Keeper No.: 450-4723 TANG  
Tool Socket: 4 13/16" - 8 point (OTC# 1941)  
Thread Size: 3.480" - 12  
Outer Bearing Part No.: HM518445/HM518410

**DANA SPICER AXLES** \* Axle date code  
\*P-22 Post Jan. 1, 2006

**FRUEHAUF AXLES**  
PROPAR Series

**HENDRICKSON AXLES**  
HP

**INGERSOLL AXLES**  
F24H

**MERITOR AXLES**  
TP Series

### STEMCO Part Number

## 447-4724

Replacement Keeper No.: 450-4723 TANG  
Tool Socket: 4 13/16" - 8 point (OTC# 1941)  
Thread Size: 3 1/2" - 12  
Outer Bearing Part No.: HM518445/HM518410

**EATON AXLES**  
EST 230-P, EST 225-P, P-22

### STEMCO Part Number

## 447-4743

Replacement Keeper No.: 450-4743 TANG  
Tool Socket: 3 3/4" - 8 point (OTC# 1925)  
Thread Size: 2 5/8" - 16  
Outer Bearing Part No.: HM212049/HM212011

**DANA SPICER AXLES**  
D-20, D-21, D-22, DD-21, DD-22, K-21, K-22, K-25,  
K-30

**EATON AXLES**  
C, C2, CD, CD2, CE, ESA-225J, EST, EST-225J, EST-  
230J, ETA 230C, ETA 225D, ETA 225J, H23L, H25R,  
HCE, HJ, HJE, J, JE, JH, LA-15, T-18C, 20L-77, 22L,  
22R, 23L, 23R, 25R

*continued...*

### 447-4743 Continued

**HENDRICKSON AXLES**  
HN

**INGERSOLL AXLES**  
A22T

**MERITOR AXLES**  
RL Series, RQ Series, TK Series, TKL Series, TKLD  
Series,  
TL Series, TLD Series, TN Series, TND Series,  
TQ Series, TQC Series, TQD Series

**STANDARD FORGE**  
A25, A26, 17,000 and 18,000 lb. Trade

### STEMCO Part Number

## 448-4836

Replacement Keeper No.: 450-4836 D-FLAT  
Tool Socket: 2 1/2" - 6 point (OTC# 1921)  
Thread Size: 1 1/2" - 12  
Outer Bearing Part No.: 3782/3720

**DANA SPICER AXLES**  
D10

**EATON AXLES**  
X-115

**FRUEHAUF AXLES**  
Model 5, TKF

**MERITOR AXLES**  
T-1100

**STANDARD FORGE**  
T 8.5-S

### STEMCO Part Number

## 449-4973

Replacement Keeper No.: 450-4973 TANG  
Tool Socket: 4 3/8" - 8 point (OTC# 1917)  
Thread Size: 3 1/4" - 12  
Outer Bearing Part No.: 580/572  
\*HM518445/HM518410

**DANA SPICER AXLES** \* Axle date code  
EST-230-P, Prior to Jan. 1, 2006  
\*P-22 TQ

**MERITOR AXLES**  
TR

# Pro-Torq® Steer Axle Nuts

## Applications and Specifications

### STEMCO Part Number

## 448-4836

Replacement Keeper No.: 450-4836 D-FLAT  
Tool Socket: 2 1/2" - 6 point (OTC# 1921)  
Thread Size: 1 1/2" - 12  
Outer Bearing Part No.: 3782/3720

### MERITOR AXLES

FD 900, FD 901, FD 961, FE 900, FE 903, FF 900,  
FF 901, FF 921, FF 931, FF 932, FF 933, FF 941, FF  
942, FF 943, FF 944, FF 952, FF 961, FG 941

### NAVISTAR

I100S

### STEMCO Part Number

## 448-4837

Replacement Keeper No.: 450-4837 TANG  
Tool Socket: 2 1/2" - 6 point (OTC# 1921)  
Thread Size: 1 1/2" - 18  
Outer Bearing Part No.: 3782/3720

### EATON AXLES

EFA-12F4, EFA-13F5, E-1200I, FE 931, 12K, 13.2K

### FORD AXLES

SIFCO 12,000#., FORD 6,000 lb.

### MERITOR AXLES

FE-931

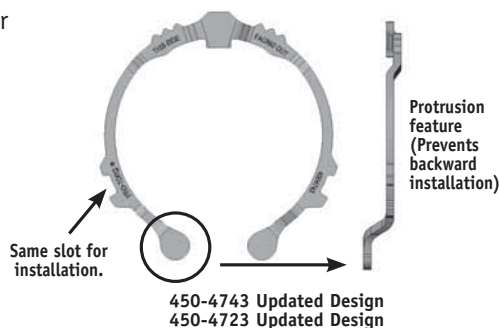
### STEMCO Part Number

## 448-4838

Pro-Torq Nut Number: 448-4836 TANG  
Replacement Keeper No.: 450-4837  
Tool Socket: 2 1/2" - 6 point (OTC# 1921)  
Thread Size: 1 1/2" - 12  
Outer Bearing Part No.: 3782/3720

### MERITOR AXLES

Steer



### STEMCO Part Number

## 448-4839

Replacement Keeper No.: 450-4839 D-FLAT  
Tool Socket: 2 5/8" - 6 point (OTC# 1922)  
Thread Size: 1 5/8" - 12  
Outer Bearing Part No.: 45220/45280

### MACK FRONT AXLES

FAW12, FAWL12, FAW537, FAW5371, FAW14.3,  
FAW538, FAW10.5, FAW536, FAW5361

### STEMCO Part Number

## 448-4840

Replacement Keeper No.: 450-4836 D-FLAT  
Tool Socket: 2 1/2" - 6 point (OTC# 1921)  
Thread Size: 2 1/2" - 18  
Outer Bearing Part No.: 3782/3720

### HENDRICKSON AUXILIARY AXLE

13,000# Ultra Axle

### STEMCO Part Number

## 448-4863

Replacement Keeper No.: 450-4863 D-FLAT  
Tool Socket: 3 1/2" - 6 point (OTC# 1910)  
Thread Size: 2 1/4" - 12

### ARVINMERITOR® FH AXLE

Steering Spindle  
16,500 lbs GAW

### STEMCO Part Number

## 448-4864

Replacement Keeper No.: 450-4864 D-FLAT  
Tool Socket: 3" - 6 point (OTC# 1906)  
Thread Size: 2" - 12  
Outer Bearing Part No.: 5552A/555S

### MACK FRONT AXLES

FA18, FAW18, FAW616, FA616, FA20, FAW20,  
FAW617, FA617, FAW16, FAW614

### STEMCO Part Number

## 448-4865

Replacement Keeper No.: 450-4865 D-FLAT  
Tool Socket: 3" - 6 point (OTC# 1906)  
Thread Size: 1 3/4" - 12  
Outer Bearing Part No.: 552A/555S, 3979/3720

### MERITOR FRONT AXLES

FL



## Applications and Specifications

### STEMCO Part Number

**447-4743**

Replacement Keeper No.: 450-4743 TANG

Tool Socket: 3 3/4" - 8 point (OTC# 1925)

Thread Size: 2 5/8" - 16

Outer Bearing Part No.: HM212049/HM212011

### MERITOR AXLES

F Series, H Series

### STEMCO Part Number

**449-4904**

Replacement Keeper No.: 450-4904 TANG

Tool Socket: 4 1/8" - 6 point (OTC# 1915)

Thread Size: 2 7/8" - 12

Outer Bearing Part No.: 563/567, 572/575, 47620/47679

### MACK AXLES

S-34, S-38, S-44, S-462, SW-56, SW-57, SW-441

### STEMCO Part Number

**449-4973**

Replacement Keeper No.: 450-4973 TANG

Tool Socket: 4 3/8" - 8 point (OTC# 1917)

Thread Size: 3 1/4" - 12

Outer Bearing Part No.: 580/572

### DANA SPICER AXLES

W 230-S, W 460-S

### EATON AXLES

D 380, D 381, D 380-P, D 381-P, D 400, D 401, D 400-P, D 440-P, D 401-P, D 402-P, D 451-P, D 460-P, D 480-P, D 485-P, DP 380, DP 381, DP 380-P, DP 381-P, DP 340, DP 341, DP 400-P, DP 401-P, DP 440-P, DP 460-P, DP 480-P, DP 550, DP 580-P, DP 650-P, DS 340, DS 341, DS 344, DS 380, DS 381, DS 380-P, DS 381-P, DS 400-P, DS 401-P, DS 404-P, DS 400-P, DS 460-P, DS 480-P, DS 454-P, DT 340, DT 341, DT 380, DT 381, DT 380-P, DT 381-P, DT 400-P, DT 440-P, DT 460-P, DT 480-P, RS 341, RS 381, RS 402, RS 401, RS 460, RS 461, RT 402, 44, 440P, 480P, 1911, 1919, 2011, 19500, 20500, 20501

### MACK AXLES

50,000#

### MERITOR AXLES

Q Series, QHD, QHR, QT Series, R Series, RL-170, RS Series, RT Series, S Series, S 170, S 280, SQ 100, SQ 100-P, SQD, SQDD, SQHD, SQHP, SQHR, SQR, SQW, SR 170, SR 270, SR 280, SRD, SRDD, SRHD, SSHD, SSSH,

### 449-4973 Continued

SP, STD, STDD, STHD, SU 170, SU 270, SU 280, SUHD, SW 170, SW 270, SW 280, T Series, U Series, 58000 Series, 59000 Series, 200

### NAVISTAR AXLES

14227, 14308, 14309, 14311, 14338, 14342, 14943, 14348, 14364, 14368, 14494

### STEMCO Part Number

**449-4974**

Replacement Keeper No.: 450-4743 TANG

Tool Socket: 3 3/4" - 8 point (OTC# 1925)

Thread Size: 2 5/8" - 12

Outer Bearing Part No.: 3984/3920, 39590/39520

### EATON AXLES

D, DT, 32M, 34M, MF, MR, RP, RT, 17800, 17801

### FORD AXLES

18,000# Rear

### MERITOR AXLES

H-145, H-162, H-172, H-240, H-262, H-350, H-362, L-172

### NAVISTAR AXLES

14044, 14186, 14351, RA44

### STEMCO Part Number

**449-4975**

Replacement Keeper No.: 450-4975 TANG

Tool Socket: 3 3/4" - 8 point (OTC# 1925)

Thread Size: 2 5/8" - 12

Outer Bearing Part No.: 3984/3920, 39590/39520

### DANA AXLES

J190S

### FORD AXLES

### GMC

### NAVISTAR AXLES

### REAR AXLE SCHOOL BUS APPLICATION

19,000#

# Pro-Torq® Interchange Guide

## PRO-TORQ® Advanced Spindle Nuts

Axilok	STEMCO	BWP	STEMCO	Euclid	STEMCO
AX 12-1500	448-4836	M-1986	447-4743	E-540	447-4743
AX 12-3250	449-4973	M-1990	449-4973	E-572	447-4743
AX 12-3480	447-4723	M-1992	449-4973	E-576	448-4836
AX 12-3500	447-4724	M-1996	447-4723	E-1087	448-4836
AX 16-2625	447-4743			E-2296	448-4836
AX 18-1500	448-4837			E-2299	448-4836
Batco	STEMCO	Ceromet	STEMCO	E-2303	449-4973
06-201	447-4743	150012	448-4836	E-2305	449-4973
06-203	447-4743	150018	448-4837	E-2420	447-4743
06-204	448-4836	262512	449-4974	E-2422	447-4743
06-210	448-4836	262516C	447-4743	E-2460	447-4743
06-226	447-4723	325012	449-4973	E-2466	449-4973
06-348	448-4837	348012	447-4723	E-2468	449-4973
06-354	448-4836	348012E	447-4724	E-2550	447-4723
06-358	448-4836	K1501	450-4836	E-4861	448-4837
06-403	447-4743	K1502	450-4837	E-6140	449-4973
06-404	447-4743	K2625	450-4743		
06-411	449-4973	K3250	450-4973	Ford	STEMCO
06-412	449-4973	K3480	450-4723	D5HZ-3104A	448-4837
06-424	447-4743	Dana	STEMCO	D7HZ-4255A	449-4974
06-425	447-4743	10284	447-4743	D7HZ-4245A	449-4974
06-470	449-4974	10286	447-4743	E4HS-4255-AA	449-4973
06-472	449-4974	10406	447-4743	F2HS-3276-AA	448-4837
06-482	449-4973	10408	447-4743		
06-484	449-4973	Eaton	STEMCO		
BWP	STEMCO	F-940	447-4743		
M-682	447-4743	F-941	447-4743		
M-684	447-4743	F-1529	447-4743		
M-685	448-4836	F-1530	447-4743		
M-1524	448-4836	X-115	448-4836		
M-1956	448-4836	11249	449-4973		
M-1959	448-4836	19186	447-4743		
M-1972	447-4743	31927	449-4973		
M-1974	447-4743	34090	447-4743		
M-1978	449-4973	128333	448-4837		
M-1980	449-4973	820394	447-4743		
M-1984	447-4743	820395	447-4743		

# Pro-Torq® Interchange Guide

## PRO-TORQ® Advanced Spindle Nuts

<b>Fruehauf</b>	<b>STEMCO</b>	<b>Meritor</b>	<b>STEMCO</b>	<b>Transit</b>	<b>STEMCO</b>
ACE-8510-001 530088	447-4723 448-4836	1227-R-330 1227-R-1240 1227-T-228 1227-T-540 1227-U-541 1227-W-517 1227-X-102 1227-Z-1040 1227-P-1160	449-4973 449-4973 447-4743 447-4743 448-4836 449-4973 448-4836 449-4974 447-4743	TP-1970 TP-1973 TP-1977 TP-1978 TP-1988 TP-1989 TP-1997 TP-1999	448-4836 448-4836 449-4973 449-4973 447-4743 447-4743 447-4743 447-4743
<b>K-B Axle</b>	<b>STEMCO</b>	<b>Navistar</b>	<b>STEMCO</b>		
KBE-10227	447-4743	1607743C1 1607744C1 2037474C1 2501559C1	448-4836 449-4973 448-4837 449-4974		
<b>Kershaw</b>	<b>STEMCO</b>	<b>Spicer</b>	<b>STEMCO</b>		
10284 10286	447-4743 447-4743	M10HN101 M10HN102 M10HN128 M10HN158 M103102-001	447-4743 447-4743 448-4836 447-4743 447-4743		
<b>Leland</b>	<b>STEMCO</b>	<b>Std. Forge</b>	<b>STEMCO</b>		
L-176 L-178 L-195 L-1331 L-1334 L-1347 L-1349 L-1353 L-1355 L-1359 L-1361 L-1365 L-1367 L-1395	447-4743 447-4743 448-4836 448-4836 448-4836 447-4743 447-4743 449-4973 449-4973 447-4743 447-4743 449-4973 449-4973 447-4723	103100-1 103102-001 103103-002 103104-001 103105 105013	447-4743 447-4743 447-4743 447-4743 448-4836 447-4743		
<b>Meritor</b>	<b>STEMCO</b>	<b>Transit</b>	<b>STEMCO</b>		
A-1227-A-105 A-1227-S-331 1227-B-106 1227-B-756 1227-B-1484 1227-C-549 1227-E-1045 1227-K-947 1227-K-1389 1227-L-194 1227-M-715	448-4836 449-4973 448-4836 447-4743 447-4723 447-4743 449-4974 448-4837 447-4723 448-4836 449-4974	TP-157 TP-431 TP-489 TP-490 TP-1572 TP-1943	448-4836 448-4836 447-4743 447-4743 449-4973 449-4973		

## PRO-TORQ® SPINDLE NUT WARRANTY

STEMCO warrants that all Product shall conform to descriptions on purchase orders, and shall be free of defects in materials and workmanship which would be discovered by following STEMCO's standards of manufacture and inspection at the time said Product was manufactured. This warranty shall remain in effect for one year following shipment of Product. This warranty is limited to repairing or replacing Product which the parties investigation show were defective at the time of delivery.

All Product subject to this warranty will be returned, F.O.B.: STEMCO LP, 300 Industrial Blvd., Longview, TX 75602, for examination, repair, or replacement.

This warranty does not cover any defect, malfunction, or failure caused by or resulting from improper or unauthorized service maintenance, installation, repair, or use not within the working specifications for which Product was designed, or from abuse, neglect, tampering with, or any other cause beyond the control of STEMCO.

PRO-TORQ® is the registered trademark of STEMCO.

Specifications contained in this catalog were in effect at the time the publication was approved for printing, and are subject to change without notice or liability.



# STEMCO®

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### STEMCO - USA

P.O. Box 1989 • Longview, TX 75606-1989  
(903) 758-9981 • 1-800-527-8492 • FAX: 1-800-874-4297  
[www.stemco.com](http://www.stemco.com)

### STEMCO - Canada

5900 Ambler Drive, Units 4 & 5 • Mississauga, ON L4W 2N3  
(905) 206-9922 • 877-232-9111 • FAX: 877-244-4555

ISO/TS 16949