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Coding Information

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Title: Prop Shaft Code Explanation

Applies To: All International Vehicles

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

09/23/2015 - Initial Article Release

DESCRIPTION

This document will guide the user through understanding Prop Shaft Codes and understanding the variations of prop codes. (**Metric Prop codes start with the number a 4 and Non metric Prop codes start with a 2.**)

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- > [Non Metric Prop Shaft Coding and Explanation](#)
- > [U joints by Series Code](#)

WHERE TO FIND PROP CODES

Prop Codes can be found in 2 places on the lineset in the Parts Catalog.

By scrolling to the bottom of the lineset there is a section Named Explanation of Prop Shaft Location.



Parts Catalog

Home | Cross Reference | Support | Training | Feedback

Figure List | Word Search | Part Number

Display Assembly Group Parts for Top Level BOM

Chassis Number TB419010 Build Date 2/25/2025

Model CE SCHOOL BUS [As Engineered](#)

[Line Set Ticket](#)

- [01 - Frame](#)
- [02 - Front Axle](#)
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- [16 - Cab](#)
- [17 - Wheels](#)
- [18 - Bus - Structure, Doors, Hardware](#)
- [19 - Bus - Storage, Insulation, Decals, Flooring](#)
- [20 - Bus - Windows, Floor Covers, HVAC, Seats, Barriers](#)
- [21 - Bus - Electrical, Mirrors, Safety Equipment, Body Accessor](#)
- [99 -](#)

Line Set Ticket
 VIN Number 4DRGVMN17B419010 Model [CE SCHOOL BUS](#) Build Date 2/25/2025
 Eng Srl Number [099556130](#) Model Code PB11000 Order Qty 1
 Dealer Number 793869 Order Number/Suffix 202834 Starting Job Number 419010
 Sold To RWC INTERNATIONAL, L Sales Region 231 Paint Code 4421
 GVWR 31000 Ignition Key I0962 Wheel Base 700.0 in / 1,778 cm
 AF Dimension 423.0 in / 1,074.4 cm Gear Ratio 5.57 Recall Pending No

Grp	Unit	Description	Cost Code
23	0597714	BCM PROG, UNDERHOOD WORK LIGHT	Yes
23	0597719	BCM PROG, BODY CONTROLLER FOR TRUCK	Yes
23	0597733	BCM PROG, BUS MUX SW IND	Yes
23	0597749	BCM PROG, DOME LT ACTIVATE ENT DOOR	Yes

Paint Control Code	Paint Schematic	Paint Location	Paint Break Code	Paint Color Code	Paint Description
1	100NB	S	01	4421	YELLOW

Explanation of Prop Shaft Locations

Prop Code	Qty	Location
0410STE1120	1	5
0410STE1280	1	2
0410STE1435	1	1
0410STH1380	1	3

On some Legacy Chassis the Prop Codes Can be found in group 06



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Parts for Top Level BOM

Chassis Number LH280435 Build Date 1/23/1990

Model 4700 4X2

[Line Set Ticket](#)

- [01 - Frame](#)
- [02 - Front Axle](#)
- [03 - Suspension](#)
- [04 - Brakes](#)
- [05 - Steering Gear](#)
- [06 - Propeller Shafts](#)
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- [14 - Rear Axle](#)
- [15 - Fuel Tanks](#)
- [16 - Cab](#)
- [17 - Wheels](#)

Line Set Ticket
 VIN Number 1HTSCNEP2LH280435 Model [4700 4X2](#) Build Date 1/23/1990
 Eng Srl Number [00072746](#) Model Code SA47540 Order Qty 1
 Dealer Number 688440 Order Number/Suffix 316406 Starting Job Number
 Sold To DESTINCTIVE LANDSCAPE Sales Region Paint Code 2303
 GVWR 27000 Ignition Key K773 Wheel Base 152.0 in / 386.1 cm
 AF Dimension 63.0 in / 160 cm Gear Ratio 5.29 Recall Pending No

Grp	Unit	Div	Variation	SE	Description	Asm Part No
03	0003020				HEAVY DUTY FRT SPRINGS	
03	0003103				SPGS MULTI-LF AUX 4500#	
03	0003643				SPGS-HD-23.5K#VARI-RATE	
04	0004009		B		*DCM 120410	
04	0004040			CHS	BENDIX HYDRO-MAX II SPLIT BRAKE SYSTEM	
04	0004144				15X1.435 FRT DISC HYDRAULIC BRAKE	
04	0004238				15X1.435 REAR DISC HYDRAULIC BRAKES	
05	0005710			ACEK	STRG COLUMN W/TILTING & TELESCOPING	
05	0005PRG				STRG GEAR ASM	
05	0005PRG				STRG GEAR ASM	1688882C91
06	0006721				60-60 *AH	
06	0006721				ONE PROP CTR BRG BRKT	
06	0260DTA	1344			*PROP SHAFT	
06	0260DTL	1366			*PROP SHAFT	
07	0007AAY			C	SGL EXH SYS(HORZ MFLR/TP)-SHORT TP(RSM)	
08	0008000			AEFHJKQW	ELECTRICAL SYSTEM (12 VOLT)	
08	0008548				CIGAR LIGHTER W/ACTIVATOR LIGHT	

METRIC PROPELLER SHAFT CODE NUMBERS

EXPLANATION OF THE PROPELLER SHAFT CODE NUMBERS SHOWN ON LINE SET TICKETS

The ten-character number actually describes the physical characteristics of the prop shaft assembly. The first **three** characters identify the series of the joint. After this the position depends on whether the yoke is half round or full round and the ends and fittings are english or metric. A more detailed explanation of the break down is shown below. All Dimensions indicated in this section will be shown in even numbers.

1 2 3 4 5 6 7 8 9 10 (10 character code no. of production propeller shaft)

Example Prop Code: 4276711480

XXX6711480 The first three characters indicate the series of the joint as follows. (Example is 427= 1710 or SPL140)

First 3 Digits	Series Number	Comparable
405	SPL55	1480
407	SPL70	1550
459	SPL90	1590
414	SPL140	1710
417	SPL170	1760
425	SPL250	1810
435	SPL350	N/A
N/A	1480	SPL55
455	1550	SPL70
459	1590	SPL90
426	1610	N/A
427	1710	SPL140
428	1760	SPL170
429	1810	SPL250

METRIC FULL ROUND

427X711480 The 4th digit indicates the tube diameter as follows: (Example is 6 = 3" Diameter)

4th Digit	Tube Diameter
6	3" Dia.
7	3-1/2" Dia.
8	4" Dia.
9	4-1/2" Dia.
0	Solid

4276XX1480 The 5th and 6th digits (Example is 71 = Refer to prop shaft supplier combinations)

Indicate the combination of ends and fittings used. (Chart not included due to too many variations)

427671XXXX The 7th, 8th, 9th and 10th digits (Example is 1480 = 1480 millimeters)

indicate the combination shaft from "pin-to-pin" or "pin-to-end" length in mm.

METRIC HALF ROUND

Example Prop Code: 427DTH1480

427XTH1480 The 4th character indicates the manufacturer as follows (Example is D = Dana)

4th Digit	Manufacture
B	Brazil
D	Dana
L	Spicer Extra Life
S	Spicer Life, SPL
R	Rockwell

427DXH1480 The 5th character indicates the shaft type as follows(Example is T = Tube Shaft)

5th Digit	Shaft Type
A	Aluminum shaft (tube)
T	Tube shaft

Y Yoke shaft (solid)

427DTX1480 The 6th character indicates the shaft identifier(Example is H = Slip Shaft Standard Slip)

If 5th Digit is a T Use the following the identify 6th Digit

6th Digit	Shaft Identifier
A	C/B shaft; standard wall thickness
B	C/B shaft; double heavy duty wall
C	C/B shaft; heavy duty wall
D	C/B shaft; heavy duty C/B
H	slip shaft; standard slip
J	slip shaft; adapter on rear
K	slip shaft; double heavy duty wall
L	slip shaft; long slip
M	slip shaft; standard slip; heavy duty wall
N	slip shaft; long slip; heavy duty wall
P	slip shaft; high angle; interaxle
W	C/B shaft; solid rubber bearing retainer
V	fixed; C/B both ends; solid rubber bearing retainer
Y	Thompson C/B
Z	Fixed; ball joint both ends

If 5th Digit is a Y (6th digit can only be A or B)

6th Digit	Shaft Identifier
A	standard angle
B	high angle

427DTH1480 The 7th, 8th, 9th and 10th digits indicate the combination (Example is 1480 = 1480 millimeters)

Shaft from "pin-to-pin" or "pin-to-end" length in mm.

EXPLANATION OF PROPELLER SHAFT CODES NON-METRIC

EXPLANATION OF THE PROPELLER SHAFT CODE NUMBERS SHOWN ON LINE SET TICKETS

The ten-character number actually describes the physical characteristics of the prop shaft assembly. The first three characters identify the series of the joint. After this the position depends on whether the yoke is half round or full round and the ends and fittings are english or metric. A more detailed explanation of the break down is shown below. All Dimensions indicated in this section will be shown in even numbers.

1 2 3 4 5 6 7 8 9 10 (10 character code no. of production propeller shaft)

Example Prop Code: 2556711485

XXX6711485 The first three characters indicate the series of the joint as follows. (Example is 255= 1550 or SPL70)

joint as follows:

First 3 Digit	Series Number	Comparable
205	SPL55	1480
207	SPL70	1550
259	SPL90	1590
214	SPL140	1710
217	SPL170	1760
225	SPL250	1810
235	SPL350	N/A
248	1480	SPL55
255	1550	SPL70
259	1590	SPL90
260	1610	N/A
270	1710	SPL140
276	1760	SPL170
281	1810	SPL250

NON METRIC FULL ROUND

255X711485 The 4th digit indicates the tube diameter as follows:(Example is 6= 3" Diameter)

4th Digit	Tube Diameter
6	3"
7	3-1/2"
8	4"
9	4-1/2"
0	Solid

2556XXX485 The 5th, 6th and 7th digits indicate the combination (Example is 711 = Refer to prop shaft supplier combinations)

of ends and fittings used.

2556711XXX The 8th, 9th and 10th digits indicate shaft length from "pin-to-pin" or "pin-to-end." in inches (Example is 485 = 48.5 inches)

IMPORTANT THE 8TH AND 9TH DIGIT ARE INCHES WHILE THE 10th or LAST DIGIT IS IN TENTHS OF AN INCH. EXAMPLE: 485 IS 48.5 INCHES

NON METRIC HALF ROUND

Example Prop Code: 255DTA1485

255XTA1485 The 4th character indicates the manufacturer as follows(Example is D = Dana)

4th Digit	Manufacture
B	Brazil
D	Dana
L	Spicer Extra Life
S	Spicer Life, SPL
R	Rockwell

255DXA1485 The 5th character indicates the shaft type as follows:(Example is T = Tube Shaft)

5th Digit	Shaft Type
A	Aluminum shaft (tube)
T	Tube shaft
Y	Yoke shaft (solid)

255DTX1485 The 6th character indicates the shaft identifier(Example is A = C/B shaft; standard wall thickness)

If 5th Digit is a T Use the following the identify 6th Digit

6th Digit	Shaft Identifier
A	C/B shaft; standard wall thickness
B	C/B shaft; double heavy duty wall
C	C/B shaft; heavy duty wall
D	C/B shaft; heavy duty C/B
H	slip shaft; standard slip
J	slip shaft; adapter on rear
K	slip shaft; double heavy duty wall
L	slip shaft; long slip
M	slip shaft; standard slip; heavy duty wall
N	slip shaft; long slip; heavy duty wall
P	slip shaft; high angle; interaxle
W	C/B shaft; solid rubber bearing retainer
V	fixed; C/B both ends; solid rubber bearing retainer
Y	Thompson C/B
Z	Fixed; ball joint both ends

If 5th Digit is a Y (6th digit can only be A or B)

6th Digit	Shaft Identifier
A	standard angle
B	high angle

255DTAX485 The 7th character indicates with or without adapter:(Example is 1 = w/o adapter.)

7th Digit	Shaft Identifier
1	w/o adapter
2	w/ adapter

255DTA1485 The 8th, 9th and 10th digits indicate shaft length from "pin-to-pin" or "pin-to-end." in inches (Example is 485 = 48.5 inches)

IMPORTANT THE 8TH AND 9TH DIGIT ARE INCHES WHILE THE 10th or LAST DIGIT IS IN TENTHS OF AN INCH. EXAMPLE: 485 IS 48.5 INCHES

U Joints by Series

FULL ROUND

Spicer Size	International Number	Fleetrite Number	Strap and Bolt Kit
1260	645573R91	ZKC200	N/A
1280	645573R91	ZKC200	N/A
1310	645573R91	ZKC153	N/A
1350	127573R91	ZKC178	1662883C91
1410	127574R91	ZKC160	1662883C91
1480	913774R91	ZKC188	1658833C91
1550	213882R91	ZKC155	1658833C91
1550	867635C91	N/A	N/A
1610	121684R92	ZKC279	N/A
1650	751762C91	ZKC165	N/A
1710	121762R92	ZKC280	N/A
1760	578379C91	ZKC407	N/A
1800	974180R93	ZKC124	N/A
1810	422910C91	ZKC281	N/A

HALF ROUND

Series	International Number	Strap Kit
1590(SPL90)	1681117C91	1685128C91
1610	1696914C91	1658834C91
1710	1696915C91	1658835C91
1760	1696917C91	1658835C91
1810	1696916C91	1658835C91
SPL140	2500677C91	2500673C91
SPL170	2500678C91	2500674C91
SPL250	2500680C91	2500675C91

OTHER RESOURCES

[Master Service Information Site](#)

[MT506 Parts Catalog](#)

Convert Dana Prop Codes to Dana PN [here](#)

Order next day Dana drivelines [here](#) and [here](#)

Meritor Driveline-on-Demand [here](#)

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