

AXLES AND SUSPENSION

Anatomy of a Spring Axle Identification Label

The diagram shows a rectangular label with various fields and callouts. Callout A points to the Lippert logo and contact information. Callout B points to the main axle description code. Callout C points to the capacity and MFG. Date fields. Callout D points to the QR code. Callout E points to the RPO number. Callout F points to the QAI logo.

LIPPERT
866 - 524 - 7821 www.lci1.com

Item# **V000114573** Cust Part# Cust PO#

LCI52-SBSA-86.5-68.5-NOSP-OS-L-65517-7225-30PT V000114392

Serial #: **S007244765**

Capacity: 5200 lbs **MFG. Date: 07/16/21**

CAN-D313-385 REC625-1 REC598

SLR as tested 13.25" AMP - 6.0 Axle Electrical Ratings: 12v **RPO-000142306** Goshen, IN

Tires, Rims, and Wheels: Shall comply with CMVTSS 109, and CMVSS; or CMVTSS 119 and CMVSS 120.
"Trailer running gear shall be equipped with tires having a static loaded radius that does not exceed by more than 10% the static loaded radius shown in the tire manufacturer's published data for the actual tire tested."

QR CODE FOR OEM USE ONLY

Callout	Name	Description
A	Part Number or Variant Number	This is the part number or Variant number used to order the axle. Part numbers are traditionally considered to be standard options without deviation from a set of metrics specific to the axle's application, and Variant numbers are configured to more custom applications.
B	Axle Description	A code made up of several shorthand codes or "designations" that detail everything about the axle.
C	Axle Capacity	Calculated using the lowest rated component on the axle assembly produced by Lippert. Axle capacity excludes tire and wheel ratings. The vehicle manufacturer will determine final GAWR (gross axle weight rating) and print that info on the VIN label.
D	Date of Manufacture	The date the axle was made in the factory.
E	RPO Number	The production number for the run of axles to which this particular axle belongs.
F	CSA/QAI Approved	If axle is CSA/QAI certified, then a QAI logo will appear on the upper right corner of the label.

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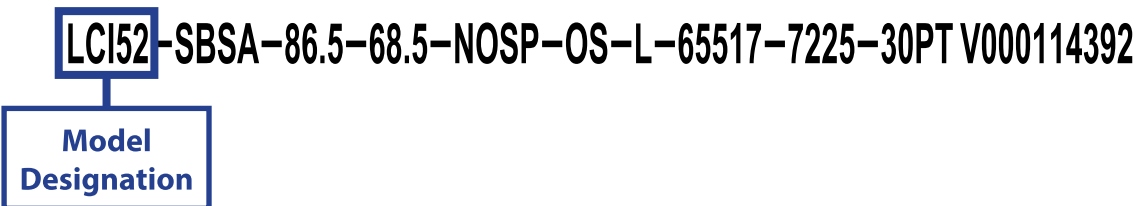
Purpose

This document outlines the nomenclature used to create spring axle descriptions that are applied to spring axle identification labels.

Nomenclature

Model Options

NOTE: CURT models also available. CURT models are designated as CURTXXX in place of LCIXXX. In the example axle tag and description, if it were a CURT model the model designation would be CURT52.



Model Designation Options	Capacity	Standard Electric Brake
LCI20	1,000 - 2,000 lbs	7" x 1.5" brake
LCI35	2,500 - 3,500 lbs	10" x 2.25" brake
LCI44	4,000 - 4,400 lbs	10" x 2.25" HD brake
LCI52	4,000 - 5,200 lbs	12" x 2" brake
LCI60	6,000 lbs	12" x 2" brake
LCI60MH	6,000 lbs	12" x 2" brake
LCI70MH	7,000 lbs	12" x 2" brake
LCI70	7,000 lbs	12" x 2" brake
LCI80H	8,000 lbs	12" x 2" brake
LCI80	8,000 lbs	12.25" x 3.38" brake
LCI100	10,000 lbs	12.25" x 3.38" brake
LCI100S	10,000 lbs (short)	12.25" x 3.38" brake
LCI120	12,000 lbs	12.25" x 5.00" brake
LCI160	16,000 lbs	12.25" x 5.00" brake

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Spindle and Brake Options

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**Spindle and Brake
Designation**

Spindle and Brake Designation Options	Description
SB	Straight spindle, electric drum brake
SBSA	Straight spindle, electric drum brake with self-adjust
SBSALL	Straight spindle, electric drum brake with self-adjust, 33" lead wires
SI	Straight spindle, idler hub, no brake
SINF	Straight spindle, idler hub, no brake and no brake flange
SBWP	Straight spindle, electric with park feature drum brake
DB	Drop spindle, electric drum brake
DBSA	Drop spindle, electric drum brake with self-adjust
DBSALL	Drop spindle, electric drum brake with self-adjust, 33" lead wires
DBWP	Drop spindle, electric with park feature drum brake
DI	Drop spindle, idler hub, no brake
SHUS	Straight spindle, hydraulic uni-servo drum brake
SHDS	Straight spindle, hydraulic duo-servo drum brake
SHUSFB	Straight spindle, hydraulic uni-servo free-backing drum brake
SAB	Straight spindle, air brake
DHUS	Drop spindle, hydraulic uni-servo drum brake
DHDS	Drop spindle, hydraulic duo-servo drum brake
DHUSFB	Drop spindle, hydraulic uni-servo free-backing drum brake
SD	Straight spindle with hydraulic disc brake
DD	Drop spindle with hydraulic disc brake

Hub Face Dimension, or Track Dimension

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**Hub Face
Information**

The Hub face dimension is a customer specified value. It is the distance between the wheel mounting surfaces of the hubs. This dimension is more commonly referred to as "hub face to hub face." Track dimension is the distance from center of tire to center of tire on the mobile home unit's tires on the same axle.

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Spring Center Dimension

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**Spring Center
Dimension**

Spring Center Dimension or Code Options	Description
XX.XX (Dimension)	Customer specified dimension. Each dimension has a set value of spring overhang limitations specified by Lippert Engineering. For more information on the parameters of these values, contact the Lippert Care Center.
NOSS	No spring seats welded

Tie Plate Designation

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**Tie Plate
Designation**

Tie Plate Designation Options	Description
SPIB	Shock plate mounted for inboard shocks
SPOB	Shock plate mounted for outboard shocks
NOSP	No shock plate, regular tie plate is to be used
FIXSS	Fixed spring seats on both sides at a standard width (2.5" for 10K and 3" for 12K & 16K). Otherwise this designation will specify either 3FIXSS or 2.5FIXSS if not a standard width
ADJSS	For 10, 12 & 16K axles only. 1 fixed and 1 adjustable spring seat on the curb side
HUTSS	For 12K & 16K axles only. 10K with 5" tube. Hutch spring seat welded

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Spring Mounting Designation

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Spring Mounting
Designation

Spring Mounting Designation Options	Description
OS	Overslung; springs mounted on top of axle tube
US	Underslung; springs mounted underneath axle tube
NOSS	No spring seat option

Lubrication Designation

LCI52-SBSA-86.5-68.5-NOSP-OS-**L**-65517-7225-30PT V000114392

Lubrication
Designation

Lubrication Designation Options	Description
L	Super-lube, grease zerk in end of spindle, dust cap with rubber plug. Standard on LCI20-LCI80, and LCI80H axles.
G	Standard grease, solid face dust cap and no zerk. Optional on all axles
O	Oil lubrication. This is an optional feature on LCI80 & LCI80H, but is standard on 10-16K axles.

NOMENCLATURE IDENTIFICATION OF LABELS FOR SPRING AXLES

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Hub or Hub/Drum Designation

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Hub/Drum
Designation

Hub/Drum Designation Options	Description	Hub Options
440	4 wheel bolts on a 4.00" circle with 1/2-20 stud.	Idler
545/5.5	5 wheel bolts on a 4.50" circle with 1/2-20 stud. 5.50" hub face diameter. For 10" and less wheels only.	Idler
545/6.5	5 wheel bolts on a 4.50" circle with 1/2-20 stud. 6.50" hub face diameter. For 12" and larger wheels only.	Idler
545/7	5 wheel bolts on a 4.50" circle with 1/2-20 stud.	7" X 1.25" brake
545	5 wheel bolts on a 4.50" circle with 1/2-20 stud.	10" X 2.25" brake, disc brake, or idler
C545	5 wheel bolts on a 4.50" circle with 1/2-20 stud. Curt hub	10" X 2.25" brake
5475	5 wheel bolts on a 4.75" circle with 1/2-20 stud.	10" X 2.25" brake, or idler
550	5 wheel bolts on a 5.00" circle with 1/2-20 stud.	10" X 2.25" brake, or idler
555	5 wheel bolts on a 5.50" circle with 1/2-20 stud.	10" X 2.25" brake, or idler
655	6 wheel bolts on a 5.50" circle with 1/2-20 stud.	10" X 2.25" brake, disc brake, or idler
C655	6 wheel bolts on a 5.50" circle with 1/2-20 stud. Curt hub	10" X 2.25" brake
65517	6 wheel bolts on a 5.50" circle with 1/2-20 stud.	12" X 2" brake, disc brake, or idler
C65517	6 wheel bolts on a 5.50" circle with 1/2-20 stud. Curt hub	12" X 2" brake
660	6 wheel bolts on a 6.00" circle with 9/16-18 stud. AG hub	Idler
608B	8 wheel bolts on a 8.00" circle with 5/8-18 stud. AG hub	Idler
86517	8 wheel bolts on a 6.50" circle with 1/2-20 stud.	12" X 2" brake, disc brake, or idler
C86517	8 wheel bolts on a 6.50" circle with 1/2-20 stud. Curt hub	12" X 2" brake
86537	8 wheel bolts on a 6.50" circle with 9/16-18 stud.	12" X 2" brake, disc brake, or idler
86557	8 wheel bolts on a 6.50" circle with 5/8-18 stud.	12" X 2" brake
865H-9/16	8 wheel bolts on a 6.50" circle with 9/16-18 stud.	12" X 2" brake, disc brake, or idler

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Hub or Hub/Drum Designation Table Continued

Hub/Drum Designation Options	Description	Hub Options
C865H-9/16	8 wheel bolts on a 6.50" circle with 9/16-18 stud. Curt hub	12" X 2" brake
865H-5/8	8 wheel bolts on a 6.50" circle with 5/8-18 stud.	12" X 2" brake, disc brake, or idler
C865H-5/8	8 wheel bolts on a 6.50" circle with 5/8-18 stud. Curt hub	12" X 2" brake
86580-9/16	8 wheel bolts on a 6.50" circle with 9/16-18 stud.	12.25" X 3.38" brake, disc brake, or idler
C86580-9/16	8 wheel bolts on a 6.50" circle with 9/16-18 stud. Curt hub	12.25" X 3.38" brake
86580-5/8	8 wheel bolts on a 6.50" circle with 5/8-18 stud.	12.25" X 3.38" brake, disc brake, or idler
C86580-5/8	8 wheel bolts on a 6.50" circle with 5/8-18 stud. Curt hub	12.25" X 3.38" brake
865	8 wheel bolts on a 6.50" circle with 5/8-18 stud.	12.25" X 3.38" brake (10K axle), 12.25" X 5" brake (12K axle), or disc brake
8/275	8 wheel bolts on a 275mm circle with M22-1.5 stud.	12.25" X 5" brake, or disc brake
UTG	5 mount on 10.13" circle with 9/16 stud. Demountable for 14.5 rims	12" X 2" brake

ABS Designation

NOTE: Example axle tag and description does not feature "ABS" designation.

If the axle description has **ABS** after the Hub or Hub/Drum designation value, then the axle will be equipped with ABS sensor and tone ring.

NOMENCLATURE IDENTIFICATION OF LABELS FOR SPRING AXLES

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Leaf Spring Designation

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Leaf Spring
Designation

Double Eye Leaf Spring Designation Options	Capacity	Free Length	Number of Leaves	Eye to Eye Length	Stack Leaf Width
7217	1,000 lbs	20.38	3	20 3/8 +/- 1/8	1.72 - 1.85
AWS2	1000 lbs	26	2	26 +/- 1/4	1.72-1.75
7206	1250 lbs	23.13	3	23 1/8 +/- 1/8	1.72 - 1.85
7222	1250 lbs	25.25	3	25 1/4 +/- 1/8	1.72 - 1.85
7213	1400 lbs	20.5	4	20 1/2 +/- 1/8	1.72 - 1.85
7209	1750 lbs	23.13	3	23 1/8 +/- 1/8	1.72 - 1.85
7242	1750 lbs	25.25	4	25 1/4 +/- 1/8	1.72 - 1.85
7224	2000 lbs	25.25	3	25 1/4 +/- 1/4	1.72 - 1.85
AWS4	2000 lbs	26	4	26 +/- 1/4	1.72 - 1.85
7278	2200 lbs	25.25	4	25 1/4 +/- 1/4	1.72 - 1.85
7220	2500 lbs	23.13	4	23 1/8 +/- 1/4	1.72 - 1.85
7225	2600 lbs	25.25	4	25 1/4 +/- 1/4	1.72 - 1.85
SW5	2900 lbs	25.25	5	25 1/4 +/- 1/4	1.72 - 1.85
7226	3000 lbs	25.13	4	25 1/8 +/- 1/4	1.72 - 1.85
PR627	3000 lbs	27	6	27 +/- 1/4	1.72 - 1.85
7227	3500 lbs	24.88	6	24 7/8 +/- 1/4	1.72 - 1.85
7279	4000 lbs	24.88	7	24 7/8 +/- 1/4	1.72 - 1.85
NO SPRINGS	No Springs on axle	-	-	-	-

NOMENCLATURE IDENTIFICATION OF LABELS FOR SPRING AXLES

AXLES AND SUSPENSION

Leaf Spring Designation Continued (Slipper Leaf Springs)

Slipper Leaf Spring Designation Options	Capacity	Free Length	Number of Leaves	Eye to Hook Length	Stack Leaf Width
WA2	400 lbs	25 Slip	2	24.25	1.72
7202	1000 lbs	27 Slip	2	27	1.72 - 1.85
BT25-12	1250 lbs	25 Slip	4	25	1.75
BT25-22	1750 lbs	25 Slip	3	25	1.72 - 1.85
703T3RB	1750 lbs	26.88 slip	3	26.88	2 +.04 / - .03
7230	2000 lbs	26.88 slip	4	26.88	2 +.04 / - .03
7231	2500 lbs	26.88 slip	4	26.88	2 +.04 / - .03
E5226	3500 lbs	26.5 Slip	5	26.5	2
7232	3500 lbs	26.88 slip	5	26.88	2 +.04 / - .03
HW5116	3500 lbs	26.5 Slip	6	26.5	2
643611	4000 lbs	26.88 Slip	5	26.88	2 +.04 / - .03
7233	4000 lbs	26.88 Slip	7	26.88	2 +.04 / - .03
E5115	4000 lbs	29.5 Slip	6	29.5	2 +.04 / - .03
E5226/7	4000 lbs	26.5 Slip	7	26.5	2 +.04 / - .03
7280	5000 lbs	30.5 Slip	5	30.5	2.5
7244	6000 lbs	30.5 Slip	6	30.5	3.00
93182-11A	6250 lbs	32.5 Slip	6	32.5	2.5
7246	8000 lbs	30.5 Slip	6	30.5	3.00
354*	11,200 lbs	43.75 Slip	3	43.75	3.00
NO SPRINGS	No Springs on axle	-	-	-	-

NOTE: *354 Will be followed by the designation FRONT or BACK denoting the orientation requirement of the spring.

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Wire Leads and Connectors

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Wire Leads and
Connectors

Wire Lead and Connector Options	Description
18PT	Standard 18" pigtail, wired on LH/road side, 18GA
18GNPT	18" pigtail, green, wired on LH/road side, 16GA
18BULPT	18" pigtail, green, wired on LH/road side. 16GA .18 male bullet
30PT	30" pigtail, wired on LH/road side, 18GA
30PT-SL	30" Pigtail with Split loom
SIW-18PT	Special inner wire, jacketed, with 18" pigtails
RW-18PT	Reverse wired, 18" pigtails on RH/curb side of axle
RW-30PT	Reverse wired, 30" pigtails on RH/curb side of axle
RWGN	Reverse wired, 18" green 16 gage pigtails
SPT	Special weather pack pigtail, male end 10"
30SPT	Special weather pack pigtail, male end 30"
FEMSPT	Special weather pack pigtail, female end 10"
PW	Pre-Wire used when axle is an idler but customer wants axle wire left in
CC	Conduit Connector installed onto brake, brake lead wires are left loose
BW	Back wire, tack weld a piece of angle to backside of axle tube only available on 10-16K axles
BW-PW	10-16K axles w/angle on back and RH side wired to LH side, 18PT

AXLES AND SUSPENSION

Additional Descriptors

NOTE: Additional descriptors are not featured in example axle tag or description.

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Additional Descriptors	Description
NO PWDR	No powder coat option
NO CAMBER	No camber put in tube (not recommended)
CAP - XXXXX	Axle Capacity. (If not listed elsewhere on the axle identification tag.)
24E	E-Commerce axle

If the tube used in the axle is not standard, the part number for the tube will be added as an additional descriptor. This is an optional tube designation for instances where overhang maximums are exceeded to achieve desired axle capacity rating or if heavier tubing is desired.

Other Tube Options	Description
177043	5.2K AXLE TUBE, 3.00" X .142" MIN WALL
122446	6K AXLE TUBE, 3.00" X .202" MIN WALL
122447	7K AXLE TUBE, 3.00" X .234" MIN WALL
132068	8K AXLE TUBE, 3.00" X .275" MIN WALL

Axle Beam Assembly Number/Variant Number

If axle has a variant number, there will be an additional variant number at the end of the description. This is the Axle Beam Assembly Variant Number and is for internal use only

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