



SERVICE DATA

BAR & CHAIN APPLICATIONS

INTRODUCTION

We are constantly working on technical improvement of our products. For this reason, technical data, equipment and design are subject to change without notice. All specifications and directions in this SERVICE DATA are based on the latest product information available at the time of publication.

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Reference No. **08-AAA-05**

REVISED : 201809

ISSUED: 199808



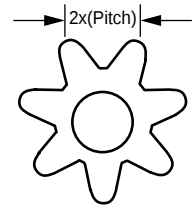
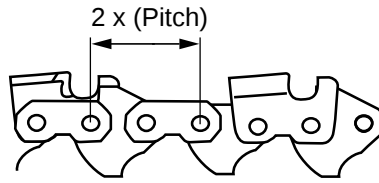
1. TERMS

1-1 Pitch

1/2 distance of consecutive 3 rivets.

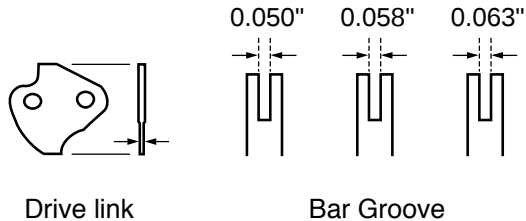
The same as drive sprocket pitch.

[1/4, 0.325, 3/8, 0.404 (inch)]



1-2 Gauge

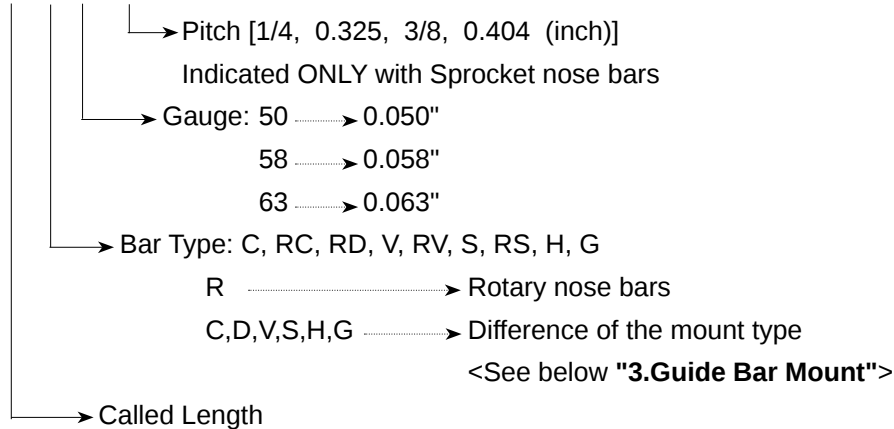
Thickness of drive link, that has to be the same as width of bar groove.



2. GUIDE BAR IDENTIFICATION

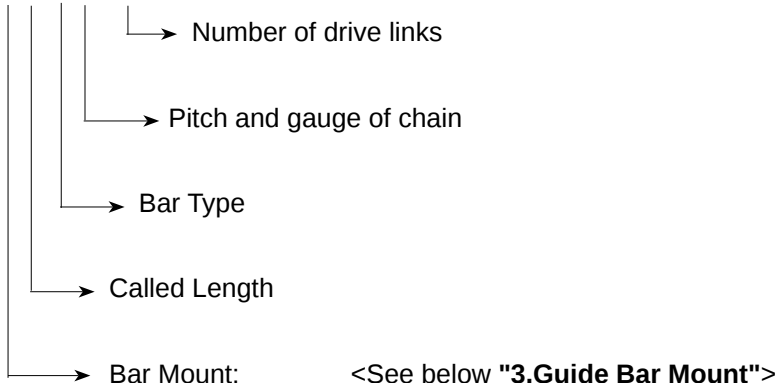
2-1 Former guide bar identification

ex. 30RC50-3/8



2-2. Current guide bar identification (From production in October 2015)

ex. C30S91-45

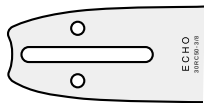
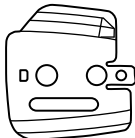
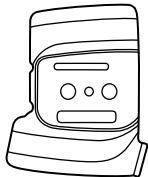
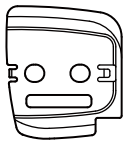
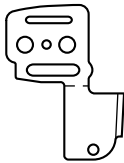


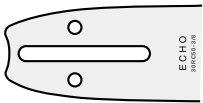
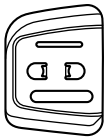
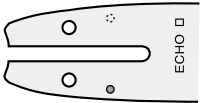
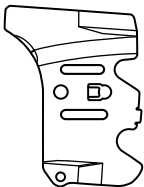
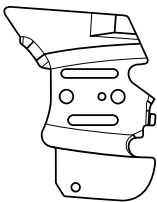
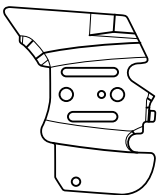
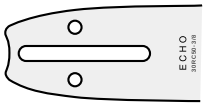
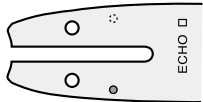
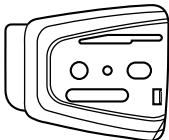
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V	4	0	R	2	1	-	6	4	S	L		S	D													
Bar Mount	Called Length		Bar Type	Pitch and Gauge of Chain Refer to Table1		Hyphen	Number of Drive Links Two Digits		Bar Style	Weight Reduction Method	Blank	Brand	Maker													
	cm	in					In the case of 3 digits, hyphen changes + and + means 1.																			
	25	10																								
	30	12																								
	33	13																								
	35	14												(EX)123												
	38	15												Drive Links												
	40	16												+	2	3										
	(43)	17												(Exception)												
	45	18												In the case of using chain together, the number of Drive Links ①1/4 and 3/8P in common							A	Standard	Standard Thickness			
	48	19		L	Light	Mount	Gauge	Pitch																		
	50	20		T	Thick	C-043-1/4&3/8LP t3.3																				
	55	22		W	Light and Thick	C-050-1/4&3/8LP t3.7																				
	60	24		V-050-1/4&3/8LP t4.0																						
	70	28		25AP and 91series							S&V-050-325&3/8 t4.3															
	80	32		②1/4,3/8 and 325P in common							S&V-058-325&3/8 t4.5															
	(Exception)			5 & 9 & 2							S&V&U-063-325&3/8 t4.8															
				25AP and 91xx and 20xx							A	A: STD														
				H	Hard Nose Bar						S	S: Slim														
				R	Replaceable Sprocket						M	M: Middle														
				S	Laminated Sprocket						C	C: Carving														
				L	Laminated Hard						Upper Line: Number of Sprocket Teeth															
											Lower Line: Size of Tip Round															
		Displacement		Tapped Hole Pitch	OREGON							1/4	3/8 LP	325	3/8											
	C	~40		P13/14	A041/K041																					
	V	35~50		P14	K216						S:	10T	7T	9T	9T											
	T	Pruner		P11	A218						Slim	17	17	19	22											
	Y	40~60		P10.5-14	K095, K216						M:	12T	8T	10T	10T											
	S	60~80			D176						Middle	21	21	22	25											
	U			P16	D009/D509						A:	13T	9T	11T	11T											
G	CS-1200	P15							STD	24	24	25	29													

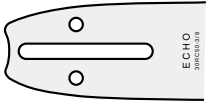
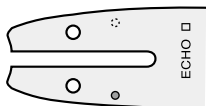
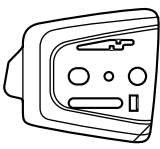
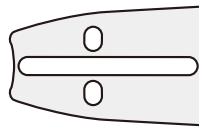
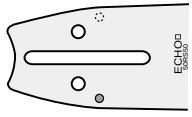
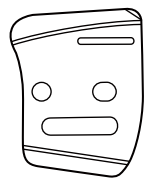
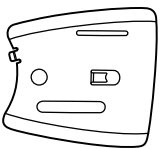
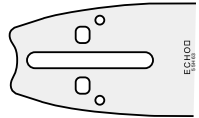
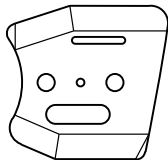
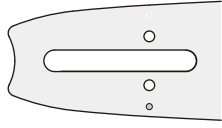
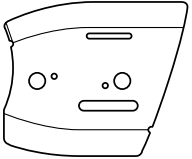
Table 1		Pitch				
Pitch and Gauge	Gauge	Pitch				
		1/4	3/8 LP	325	3/8	404
	43	A4	90			
	50	25	91	20	72	
	58			21	73	58
	63			22	75	59

EX. Replace of the Identification		
Former Guide Bar Identification		Current Guide Bar Identification
40RV50LD-325E	→	V40R20-68MLT_ED
40RV58LD-325ESD		V40R21-68AL-_ED
43RD58-325SD		C45S21-72AA-_ST
40V50LD-325SD		V40H20-68MLT_SD
25LC50S-1/4CSD		C25L25-68CA-_SD

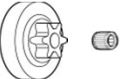
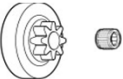
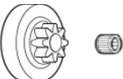
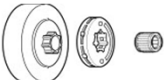
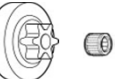
3. GUIDE BAR MOUNT

Mount Type and Shape	Applicable Plates / Parts number	Applicable Models
C 	 C305-000500	CS-2511TES
	 C305-000031	CS-2600 , CS-2600ES CS-260T , CS-260TES CS-2700 , CS-2700ES CS-270WES CS-280T , CS-280TES CS-280WES CS-281WES
	 C305-000080	CS-320T , CS-320TES CS-350T , CS-350TES CS-350WES CS-351WES CS-360WES
	 C305-000430	CS-360TES
	 C305-000091	CS-361WES
	Nil	CS-309ES CS-310ES CS-352ES CS-353ES
	 433012-39131	CS-3000 CS-3050 CS-3400 CS-3450 CS-303T

Mount Type and Shape	Applicable Plates / Parts number	Applicable Models
C 	 433013-60930	CS-3500 CS-3501
V 	 C305-000440	CS-390ESX
	 C305-000480	CS-490ES
	 C305-000411	CS-452ESX CS-500ES CS-501SX
	 433013-19831	CS-5000
	 C305-000400	CS-550
C  V 	 433013-35432	CS-3600 CS-3900 CS-4400 CS-450 CS-5100 CS-510 CS-525

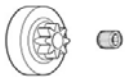
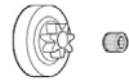
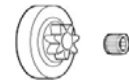
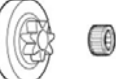
Mount Type and Shape	Applicable Plates / Parts number	Applicable Models
C  V 	 433012-39930	CS-3700 , CS-3700ES CS-370ES CS-4200 , CS-4200ES CS-420ES CS-421ES
Y 	Nil	CS-4510ES
S 	 433013-12332	CS-60S
	 C305-000111	CS-590 CS-600 CS-600S CS-605 CS-610 CS-620SX
	 433013-30830	CS-5501 CS-6701 CS-6702 CS-6703 CS-8001 CS-8002 CS-680 CS-680S CS-6800
H 	 433013-14730	CS-900EVL
G 	 433013-16430	CS-1201 CS-1200VLS

4. DRIVE SPROCKET

Model	Displacement (cm ³)	Drive Sprocket (Clutch Drum)			
		Pitch (in)	Shape	Type	Parts Number
CS-2511TES	25.0	3/8		Spur-6 Needle bearing	A556-001720 V555-000190
		1/4		Spur-8 Needle bearing	A556-001710 V555-000190
CS-2600 CS-2600ES CS-260T CS-260TES CS-2700ES CS-270WES CS-280T CS-280TES CS-280WES CS-281WES	26.9	3/8		Spur-6 Needle bearing	A556-000092 V555-000170
		1/4		Spur-8 Needle bearing	A556-000102 V555-000170
CS-320T CS-320TES	32.3	3/8 lowprofile		Spur-6	175005-39133
CS-350T CS-350TES CS-350WES CS-351WES CS-360T CS-360TES CS-360WES CS-361WES	35.8			Needle bearing	V555-000170
CS-309ES CS-310ES	30.5	3/8 lowprofile		Spur-6	A556-000543
CS-352ES CS-353ES	34.0			Needle bearing	V553-000150
CS-390ESX	38.4	0.325		Floating rim-7 (SM7)* ¹	175114-12530
CS-452ESX	45.1			Clutch drum	A556-001121
CS-490ES	50.2			Needle bearing	V555-000150
CS-3000 CS-3050 CS-303T	30.1	3/8 lowprofile		Spur-6	175005-39133
CS-3400 CS-3450	33.4			Needle bearing	V555-000170
CS-3500 CS-3501	34.0				

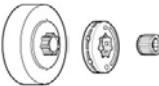
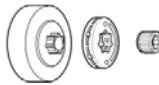
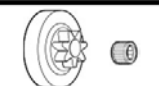
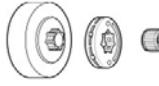
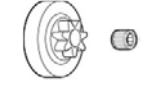
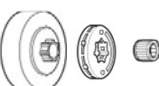
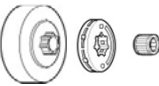
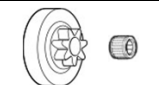
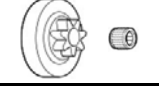
< Parts indicated in " ITALIC " are options.>

*1 : Small diameter with 7-tooth.

Model	Displacement (cm ³)	Drive Sprocket (Clutch Drum)			
		Pitch (in)	Shape	Type	Parts Number
CS-3000 CS-3050 CS-303T	30.1	1/4		Spur-8	175007-39233
CS-3400 CS-3450	33.4			Needle bearing	V555-000170
CS-370ES	36.3	3/8 lowprofile		Spur-7	A556-000401
CS-370ES	36.3	0.325		Needle bearing	V555-000170
CS-420ES	40.2			Spur-6	A556-000481
CS-421ES	40.2	0.325		Needle bearing	V555-000170
CS-3600 CS-3900	35.8 39.6	0.325		Floating rim-7 (SM7)* ¹ Clutch drum Needle bearing	175114-12530 175105-35431 175012-14630
CS-3700 CS-3700ES	35.8	0.325		Spur-7	A556-000172
CS-3700 CS-3700ES	35.8	0.325		Needle bearing	A555-000150
CS-4200 CS-4400	39.6 43.6	0.325		Floating rim-7 (SM7)* ¹ Clutch drum Needle bearing	175114-12530 175105-35431 V555-000170
CS-4200 CS-4400	39.6 43.6	0.325		Spur-7	A556-000172
CS-450	45.0	0.325		Needle bearing	175012-00831
CS-4510ES	45.0	0.325		Floating rim-7 (SM7)* ¹ Clutch drum Needle bearing	175114-12530 175105-35431 175012-14630
CS-500ES CS-501SX	50.2	0.325		Spur-7	A556-000172
CS-5000	49.3	0.325		Needle bearing	175012-00831

< Parts indicated in " ITALIC " are options.>

*1 : Small diameter with 7-tooth.

Model	Displacement (cm ³)	Drive Sprocket (Clutch Drum)			
		Pitch (in)	Shape	Type	Parts Number
CS-5100 CS-510 CS-525	49.3	0.325		Floating rim-7 (SM7)* ¹ Clutch drum Needle bearing	175114-12530 A556-000021 V557-000020
CS-550	54.1	0.325		Floating rim-7 (SM7)* ¹ Clutch drum Needle bearing	175114-12530 A556-001310 V555-000010
CS-5501 Serial Number - 003745	54.8	0.325		Floating rim-7 (SM7)* ¹ Clutch drum Needle bearing	175114-12530 175105-19930 175012-19830
CS-5501 Serial Number 003746-	54.8	3/8		Floating rim-7 (SM7)* ¹ Clutch drum Needle bearing	175114-03430 175105-19930 175012-19830
CS-60S	61.5	3/8		Spur-7 Needle bearing	175005-00231 175012-00230
CS-600 CS-605 CS-610 CS-620SX	59.8	3/8		Floating rim-7 (SM7)* ¹ Clutch drum Needle bearing	175033-14731 A556-001610 V555-000010
CS-590 CS-600S	59.8	3/8		Spur-7 Needle bearing	A556-001580 V555-000010
CS-6701 CS-6702 CS-6703 CS-680 CS-680S	66.8	3/8		Floating rim-7 (STD7)* ² Clutch drum Needle bearing	175033-14731 175105-32431 175012-32430
CS-8001 CS-8002	80.7	3/8		Floating rim-7 (STD7)* ² Clutch drum Needle bearing	175033-14731 175105-30831 175012-30831
CS-900EVL	91.6	0.404		Floating rim-7 (STD7)* ² Clutch drum Needle bearing	175033-10630 175006-14730 175012-30831
				Spur-7 Needle bearing	175206-14730 175012-30831
CS-1201	116.3	0.404		Spur-7 Needle bearing	175006-60730 175012-60730
CS-1200VLS	116.3	0.404		Spur-7 Needle bearing	175006-16434 175012-16430

< Parts indicated in " ITALIC " are options.>

*1 : Small diameter with 7-tooth.

*2 : Standard diameter with 7-tooth.

5. GUIDE BAR & SAW CHAIN

Mount	Guide Bar		Saw Chain				Model
	Applicable Type	Gauge (in)	Standard Type	Number of Drive Links	Gauge (in)	Pitch (in)	
C	C20S91-35 C25S91-40 C30S91-47	0.050	CARLTON N1C-BL OREGON 91PX	35,40,47	0.050	3/8	CS-2511TES
	C20H25-52 C25H25-60 C25H25-60	0.050	OREGON 25AP	52,60	0.050	1/4	
	C20HA4-52 C25HA4-60	0.043	SUGIHARA A4S	52,60	0.043	1/4	
C	C20S91-35 C25S91-40 C30S91-47	0.050	OREGON 91VG,91VXL	35, 40, 47	0.050	3/8	CS-2600 CS-2600ES CS-260T CS-260TES CS-2700ES CS-270WES CS-280T CS-280TES CS-280WES CS-281WES
C	CARVING BAR C25H25-60 C25L25-60	0.050	CARLTON E1MC OREGON 25AP	60	0.050	1/4	
C	C30S91-47 C35S91-53 C40S91-58	0.050	OREGON 91VG,91VXL	47, 53, 58	0.050	3/8	CS-320T CS-320TES CS-350T CS-350TES CS-350WES CS-351WES CS-360T CS-360TES CS-360WES CS-361WES
C	C35S91-53	0.050	CARLTON N1C-BL	53	0.050	3/8	CS-309ES
C	C30S91-47 C35S91-53	0.050	CARLTON N1C, N1C-GL OREGON 91VG,91VXL	47, 53	0.050	3/8	CS-310ES CS-352ES CS-353ES
	C30S90-45 C35S90-52	0.043	CARLTON N4C-BL OREGON 90PX	45, 52	0.043		
C	C33S21-56 C38S21-64	0.058	CARLTON K2L OREGON 21BPX	56,64	0.058	0.325	CS-452ESX
C	C30S91-47 C30S91-47 C35S91-53 C35S91-53 C40S91-58	0.050	CARLTON N1C, N1C-GL OREGON 91VG, 91VXL	40, 47, 53, 58	0.050	3/8	CS-3000 CS-3050 CS-303T CS-3400 CS-3450 CS-3500 CS-3501
C	C35S91-53 C40S91-58	0.050	CARLTON N1C, N1C-GL OREGON 91VG,91VXL	53, 58	0.050	3/8	CS-370ES
C	C33S21-56 C38S21-64 C45S21-72	0.058	CARLTON K2L OREGON 21BPX	56, 64, 72	0.058	0.325	CS-3600 CS-370ES CS-3700 CS-3700ES CS-3900 CS-420ES CS-450
V	V33S20-56 V38S20-64	0.050	OREGON 95VPX	56,64	0.050	0.325	CS-390ESX
V	V38R21-64 V45R21-72 V50R21-80	0.058	CARLTON K2L OREGON 21BPX	64,72,80	0.058	0.325	CS-450 CS-4200 CS-4400

Mount	Guide Bar		Gauge (in)	Standard Type	Saw Chain		Pitch (in)	Model
	Applicable Type				Number of Drive Links	Gauge (in)		
V	V38S21-64 V45S21-72 V50S21-80		0.058	CARLTON K2L OREGON 21BPX	64,72,80	0.058	0.325	CS-490ES
V	V38R21-64 V45R21-72 V50R21-80 V38R20-64 V45R20-72 V50R20-80		0.058	CARLTON K2L OREGON 21BPX	64, 72, 80	0.058	0.325	CS-500ES CS-501SX
V	V38R21-64 V45R21-72 V50R21-80		0.058	CARLTON K2L OREGON20BPX	64, 72, 80	0.058	0.325	CS-5000 CS-5100 CS-510
V	C38S21-64 C45S21-72 V45R21-72 V50R21-80		0.058	CARLTON K2L OREGON 20BPX	64, 72, 80	0.058	0.325	CS-525
V	V38R21-64 V45R21-72 V50R21-80 V40R73-60 V45R73-64 V50R73-72		0.058	CARLTON K2L OREGON 21BPX	64, 72, 80	0.058	3/8	CS-550
S	S45R73-64 S50R73-72 S60R73-84		0.058	CARLTON A2LM OREGON 73LGX	64, 72, 84	0.058	3/8	CS-600 CS-605 CS-610 CS-620SX CS-590 CS-600S
S	S45R73-64 S50R73-72 S60R73-84 S70R73-96		0.058	CARLTON A2L, A2L-GL OREGON 73LG, 73LP, 73DP	64, 72, 84, 96	0.058	3/8	CS-6701 CS-6702 CS-6703 CS-680 CS-680S CS-8001 CS-8002

Mount	Guide Bar			Standard Type	Saw Chain		Pitch (in)	Model
	Called Length (cm)	Applicable type	Gauge (in)		Number of Drive Links	Gauge (in)		
S	40, 45, 50 55, 60	S50	0.050	CARLTON K1L OREGON 20BPX	67, 72, 81, 88, 94	0.05	0.325	CS-5501
	40, 45 50, 60	S58 RS58-325	0.058	CARLTON K2L OREGON 21BPX	67, 72, 81, 94	0.058		serial number - 003745
S	40, 45, 50 55, 60	S50 RS50-3/8	0.050	CARLTON A1L, A1L-GL OREGON 72LG	60, 64, 72, 78, 84	0.050	3/8	CS-5501
	40, 45 50, 60	S58 RS58-3/8	0.058	CARLTON A2L, A2L-GL OREGON 73LG, 73LP, 73DP	60, 64, 72, 84	0.058		serial number 003746-
S	40, 45, 50 55, 60	S50 RS50-3/8	0.050	CARLTON A1L, A1L-GL OREGON 72LG, 72LP, 72DP	60, 64, 72, 78, 84	0.050	3/8	CS-60S
H	45, 55, 65 75, 95	H63	0.063	CARLTON B3S, B3EP OREGON 59CP, 27	64, 72, 80, 92, 108	0.063	0.404	CS-900EVL
G	21, 25, 30 33, 36, 42 (in)	G63 W63	0.063	CARLTON B3S, B3EP OREGON 59CP, 27	72, 84, 92, 100, 104, 124	0.063	0.404	CS-1201 CS-1200VLS

6. SAW CHAIN IDENTIFICATION

6-1 Oregon Saw Chain

ex. 91SG-60E

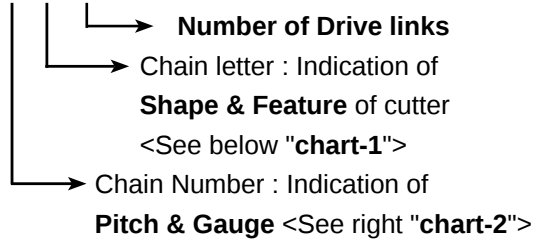


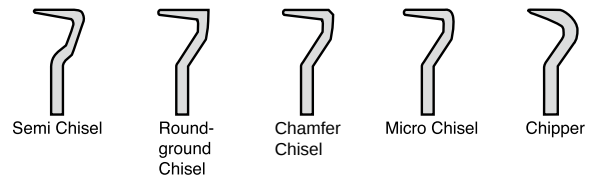
Chart-1 Oregon Chain Letter Identification

Chain Letter	Cutter Type	Safety Feature
SG, VG	Chamfer chisel	1, 2
PX	Chamfer chisel	3
AP, BPX	Micro chisel	3
VPX, TXL	Micro chisel	2, 3
LGX	Round-ground chisel	2
LPX	Round-ground chisel	3
VXL	Semi chisel	2
DP, DX, DPX	Semi chisel	3
CP	Chipper	3

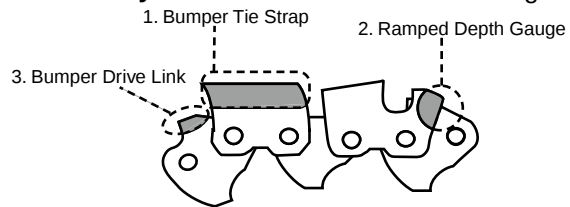
Chart-2 Oregon Chain Number Identification

CHAIN NUMBER	PITCH (inch)	GAUGE (inch)
20	0.325	0.050
21	0.325	0.058
22	0.325	0.063
25	1/4	0.050
27	0.404	0.063
72	3/8	0.050
73	3/8	0.058
75	3/8	0.063
90	3/8 Low profile	0.043
91	3/8 Low profile	0.050
95	0.325	0.050

<Cutter Type>

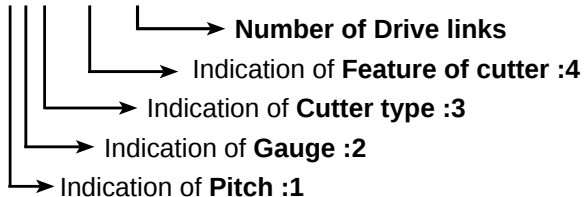


<Safety Feature> for kickback-reducing

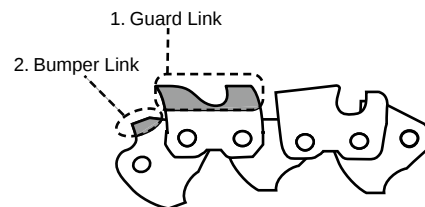


6-2 Carlton Saw Chain

ex. A2L-GL-60E



<Safety Feature> for kickback-reducing



1: Pitch (inch)	2: Gauge (inch)	3: Cutter type	4: Feature of cutter
A 3/8	1 .050	C Champion	GL Guard Link
B .404	2 .058	EP Type E Professional	BL Bumper Link
E 1/4	3 .063	L Chisel	
K .325	4 .043	LM Magna Chisel	
N 3/8 Low profile		MC Micro chisel	
		NK Narrow Kerf	

<Cutter Type>

