



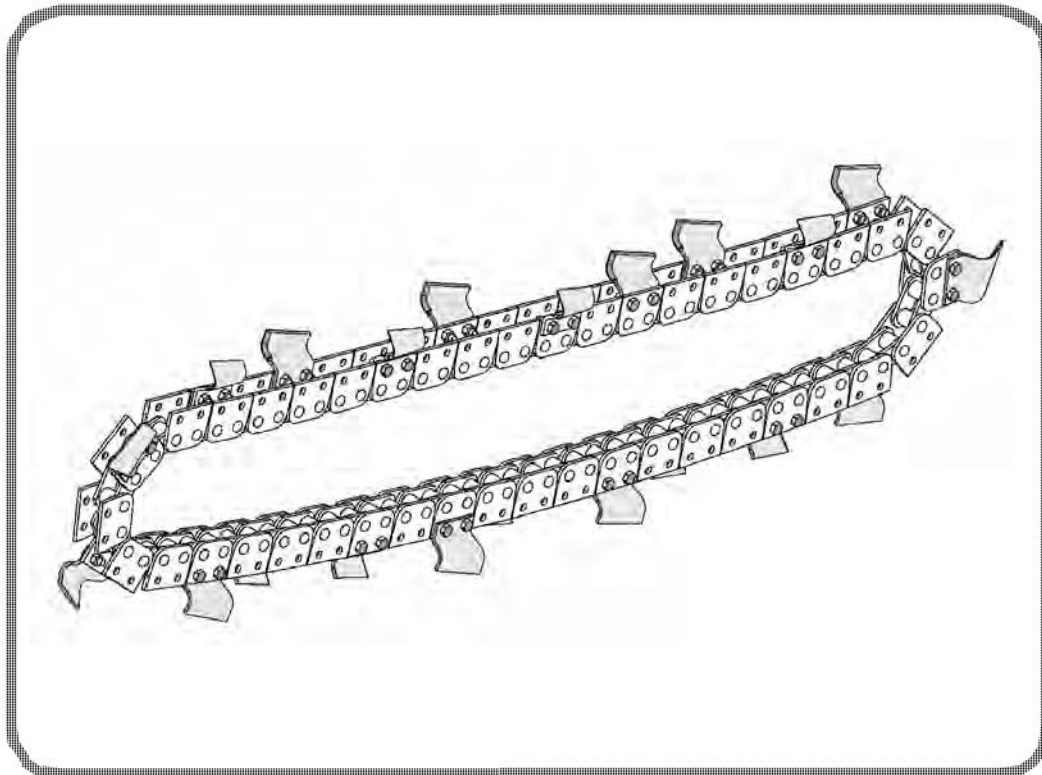
# Bobcat®

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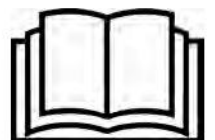
## Trencher Chain Pattern Manual

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LT112 Trencher  
MX112 Trencher  
LT113 Trencher  
LT213 Trencher  
LT313 Trencher  
LT414 Trencher



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## FOREWORD

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## GROUND CONDITIONS

### Digging Speed

Ground conditions vary greatly from area to area. Digging speed should be adjusted to the ground conditions in the area where trenching.

Use the following chart [Figure 1] as a guideline.

Figure 1

CONDITION	CHAIN SPEED
Rocky.....	Slow
Sand.....	Fast
Gumbo.....	Fast
Normal.....	Medium Fast
Clay.....	Medium
Roots.....	Slow To Medium
Asphalt.....	Medium

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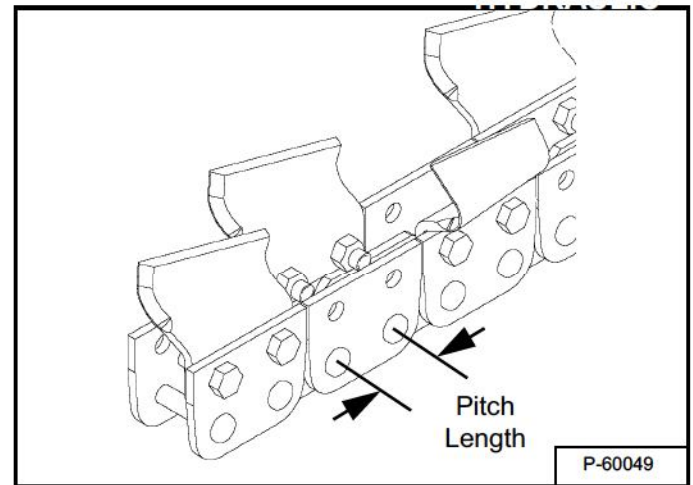
Listen to the machines engine. Adjust ground travel speed to prevent engine lugging.

**NOTE: Use trench cleaning foot to obtain clean bottom trench.**

## CHAIN PITCH

### Pitch Length

Figure 2



The pitch length of a chain is measured from center to center of the pins of one chain link [Figure 2].

### Standard Pitch Lengths:

LT112 & MX112 - 42 mm (1.654 in)

LT113 - 42 mm (1.654 in)

LT213 - 42 mm (1.654 in)

LT313 - 51 mm (2.00 in)

LT414 - 51 mm (2.00 in)

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## **CHAIN AND SPROCKET WEAR LIMITS**

Chain rollers limit the life of a chain. The most severe wear occurs at the widest cutters in the chain line. If chain rollers are missing, the chain should be replaced.

Abrasive wear within the chain joints causes chain stretch. The chain should be replaced when the chain has been elongated 4%.

When replacing an old chain with a new one, always replace the worn sprockets at the same time. Sprockets should be replaced if they have worn into a hook shape. A new chain installed on worn sprockets will wear out more rapidly than normal.

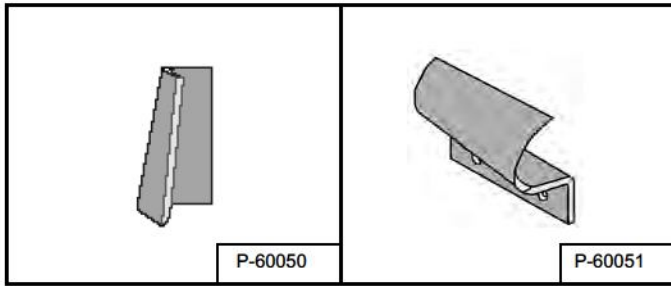
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## SINGLE STANDARD PATTERNS

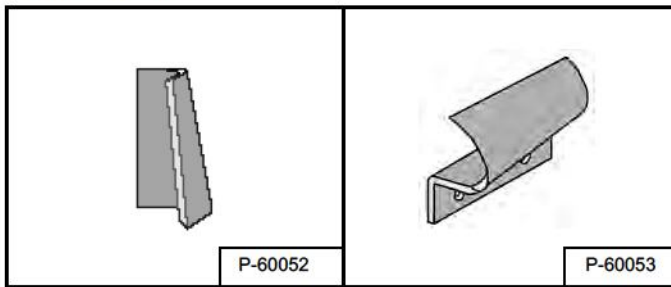
### Component Description

Figure 112-10-1



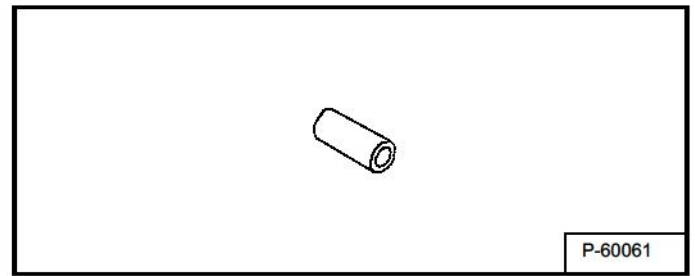
Right hand digging tooth [Figure 112-10-1].

Figure 112-10-2



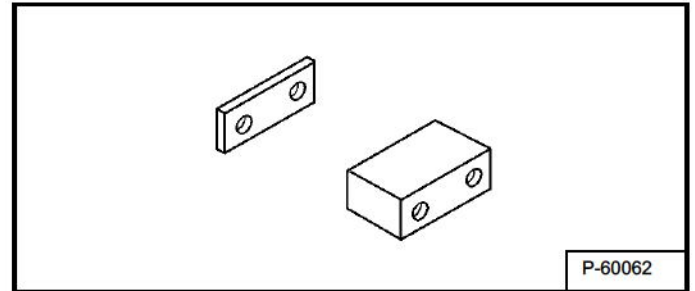
Left hand digging tooth [Figure 112-10-2].

Figure 112-10-3



Bushing [Figure 112-10-3].

Figure 112-10-4

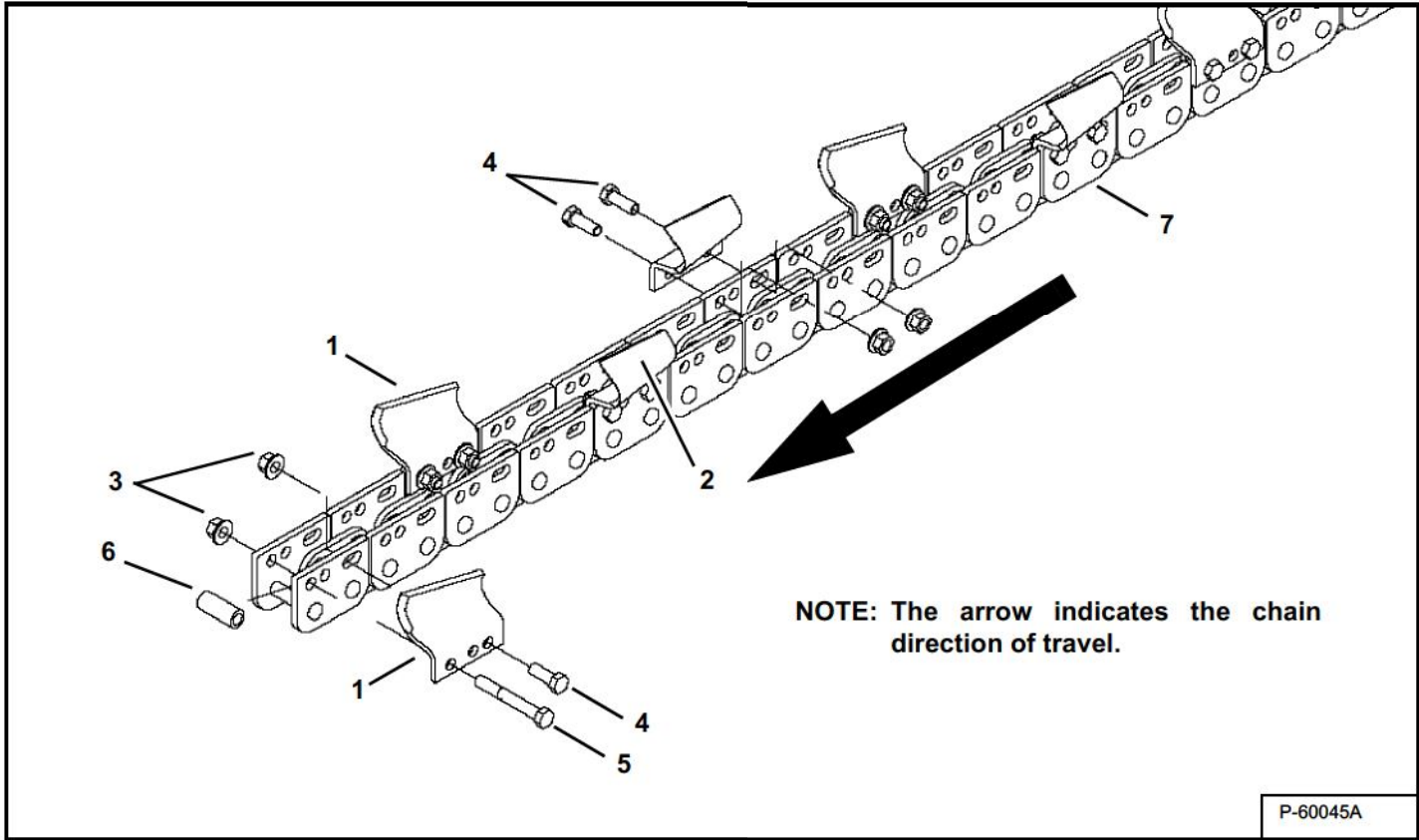


Spacers [Figure 112-10-4].

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SINGLE STANDARD PATTERNS (CONT'D)

Cup Tooth Parts Identification 0,61 m x 102 mm (2 ft x 4 in)



REF NO.	PART NUMBER	DESCRIPTION	QTY.
1	6655759	RH Tooth	6
2	6655760	LH Tooth	7
3	83D6	Nut	26
4	17C616	Bolt	25
5	17C644	Bolt	1
6	6701880	Bushing (Used on connecting link only)	1
7	6959302	Chain (52 pitch)	1

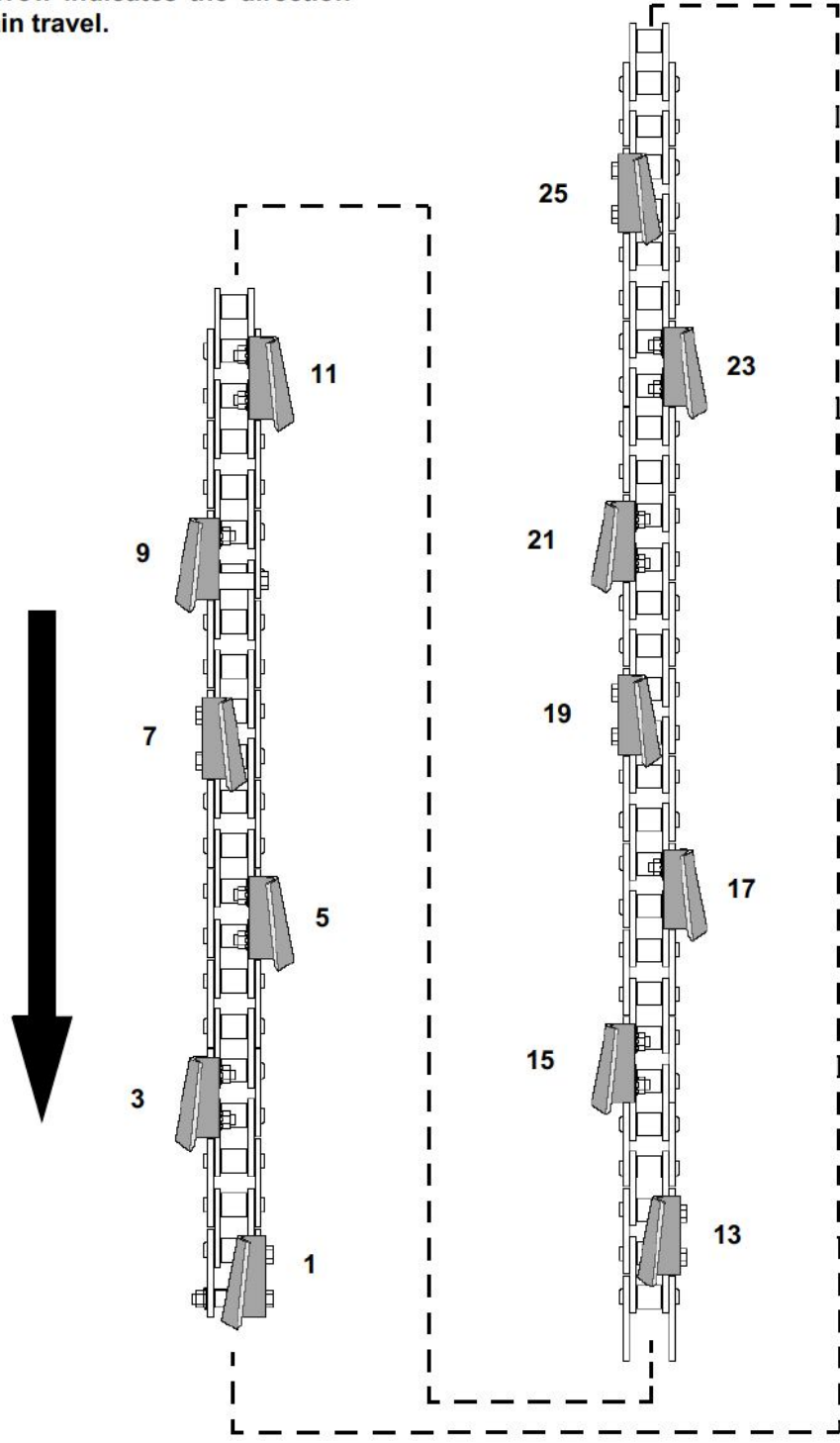
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# SINGLE STANDARD PATTERNS (CONT'D)

## Cup Tooth Pattern Installation 0,61 m x 102 mm (2 ft x 4 in)

**Instructions:** Install teeth 1 thru 25 as indicated below.

**NOTE:** The arrow indicates the direction of chain travel.



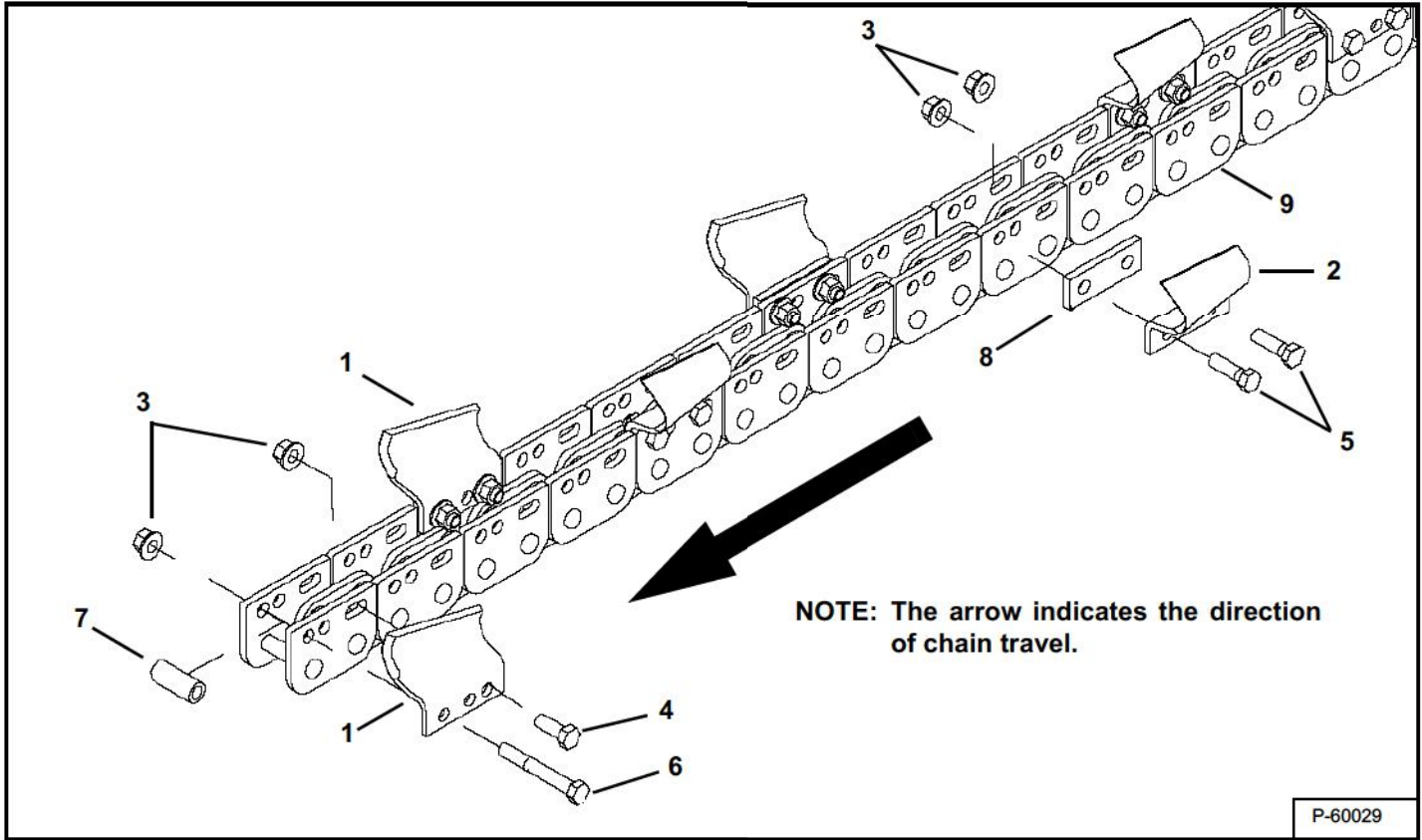
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SINGLE STANDARD PATTERNS (CONT'D)

Cup Tooth Parts Identification 0,61 m x 152 mm (2 ft x 6 in)



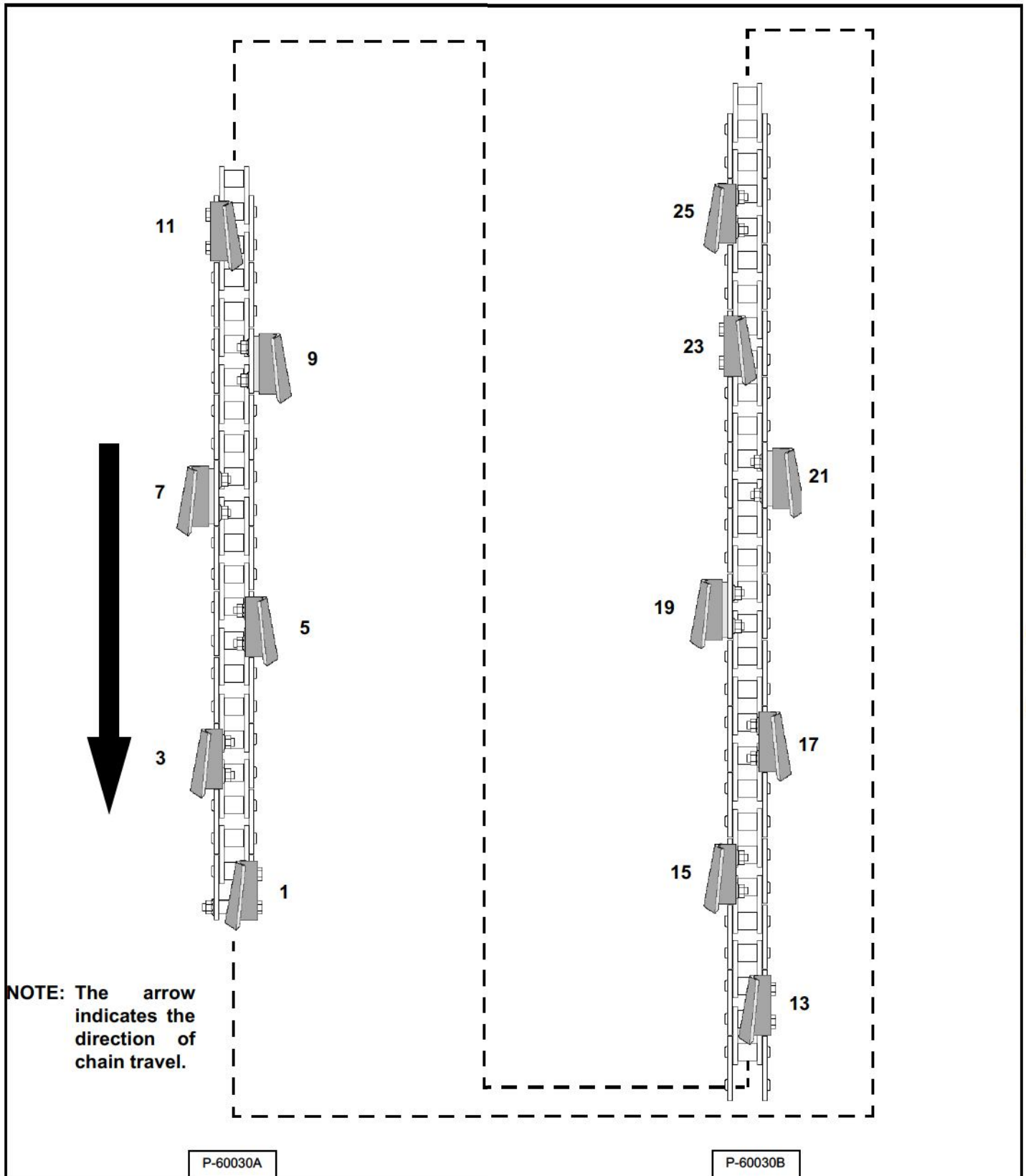
REF NO.	PART NUMBER	DESCRIPTION	QTY.
1	6655759	RH Tooth	7
2	6655760	LH Tooth	6
3	83D6	Nut	26
4	17C616	Bolt	17
5	17C620	Bolt	8
6	17C644	Bolt	1
7	6701880	Bushing (Used on connecting link only)	1
8	6713795	Spacer	4
9	6959302	Chain (52 pitch)	1

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# SINGLE STANDARD PATTERNS (CONT'D)

## Cup Tooth Pattern Installation 0,61 m x 152 mm (2 ft x 6 in)

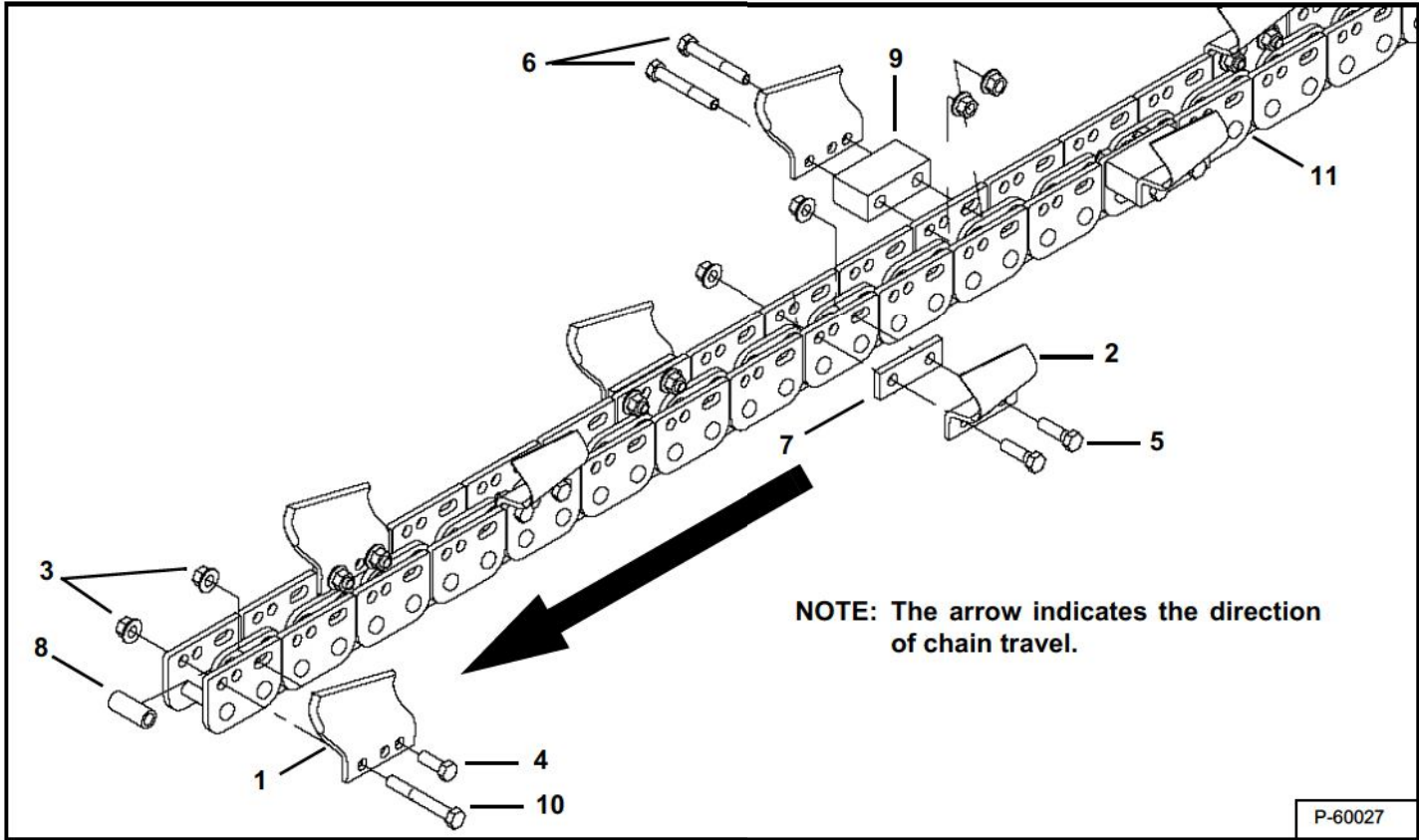
**Instructions:** Install teeth 1 thru 25 as indicated below.



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SINGLE STANDARD PATTERNS (CONT'D)

Cup Tooth Parts Identification 0,61 m x 203 mm (2 ft x 8 in)



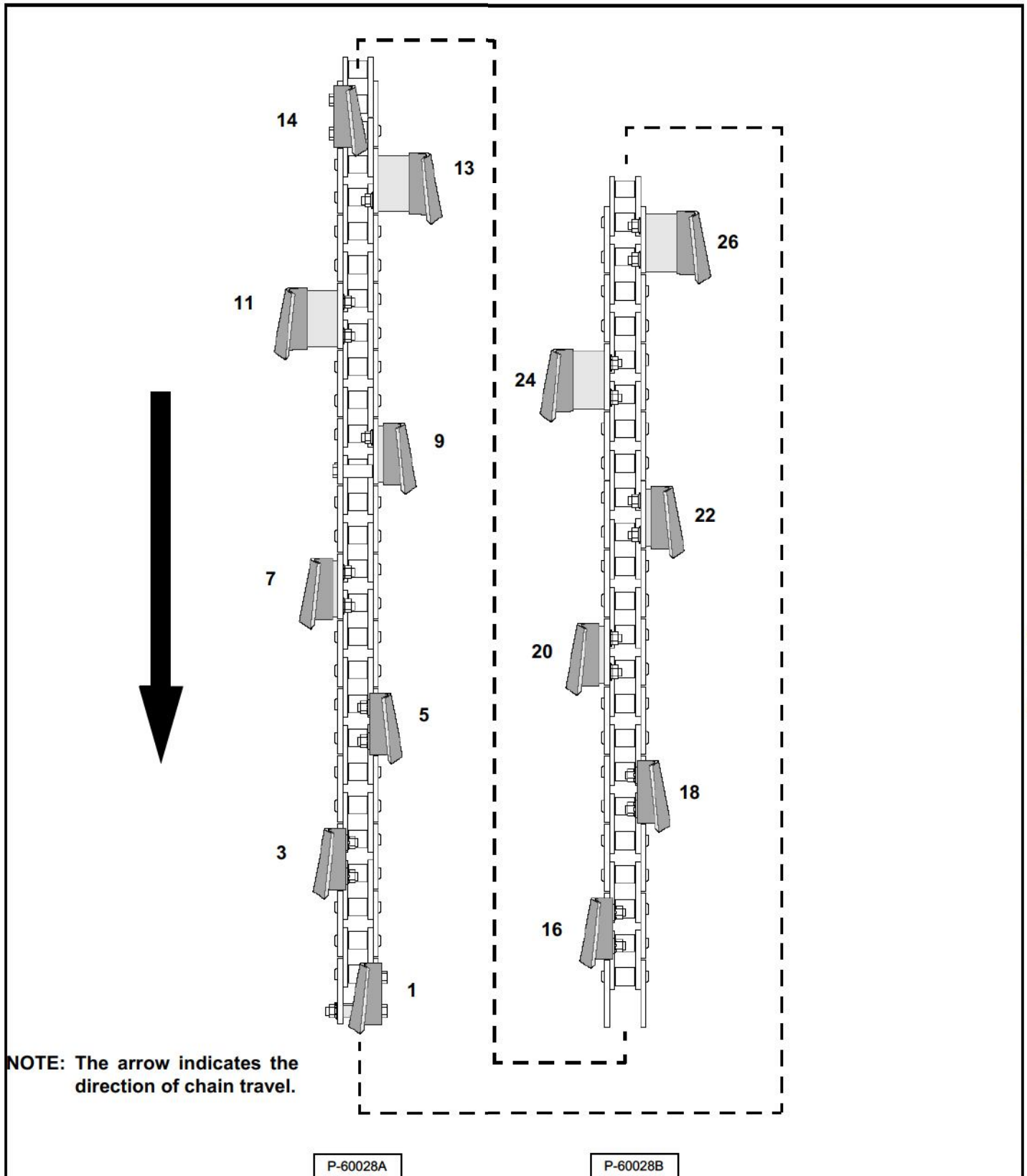
REF NO.	PART NUMBER	DESCRIPTION	QTY.
1	6655759	RH Tooth	7
2	6655760	LH Tooth	7
3	83D6	Nut	26
4	17C616	Bolt	11
5	17C620	Bolt	8
6	17C640	Bolt	8
7	6702159	Spacer	4
8	6701880	Bushing (Used on connecting link only)	1
9	6713795	Bushing	4
10	17C644	Bolt	1
11	6959302	Chain (52 pitch)	1

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# SINGLE STANDARD PATTERNS (CONT'D)

Cup Tooth Pattern Installation 0,61 m x 203 mm (2 ft x 8 in)

**Instructions:** Install teeth 1 thru 26 as indicated below.

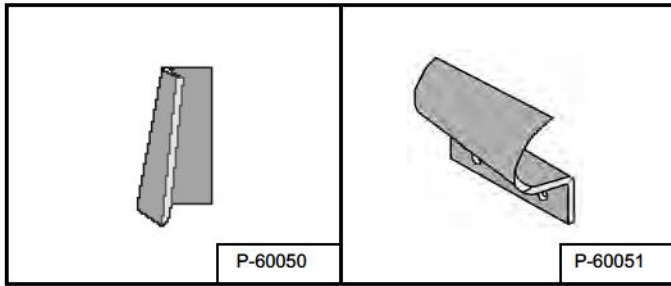


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## DOUBLE STANDARD PATTERNS

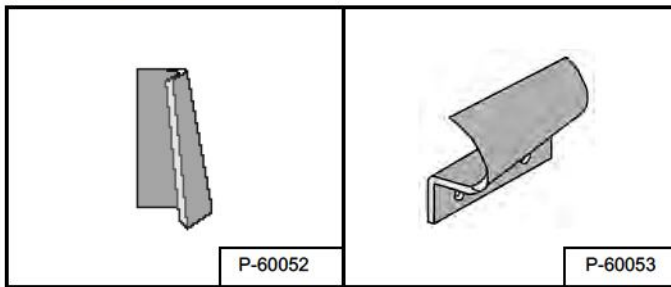
### Component Description

Figure 112-20-1



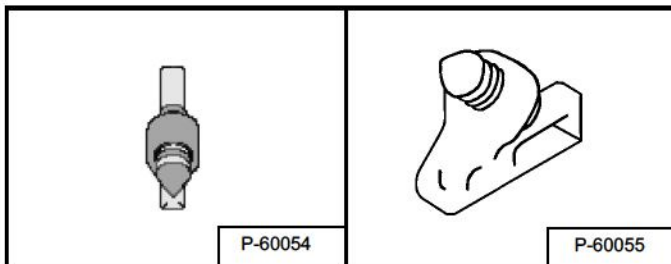
Right hand digging tooth [Figure 112-20-1].

Figure 112-20-2



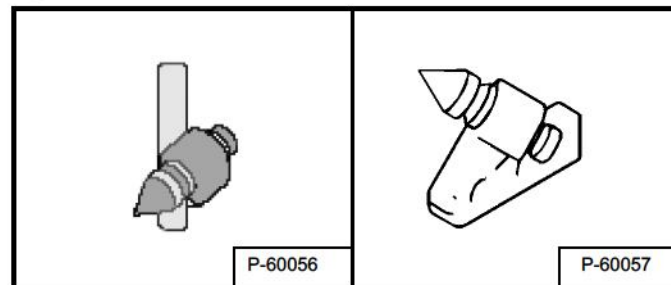
Left hand digging tooth [Figure 112-20-2].

Figure 112-20-3



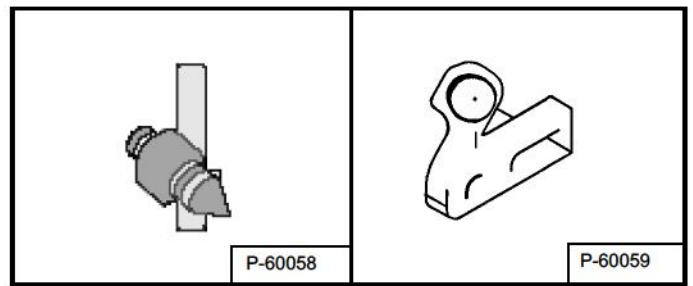
In-line holder assembly [Figure 112-20-3].

Figure 112-20-4



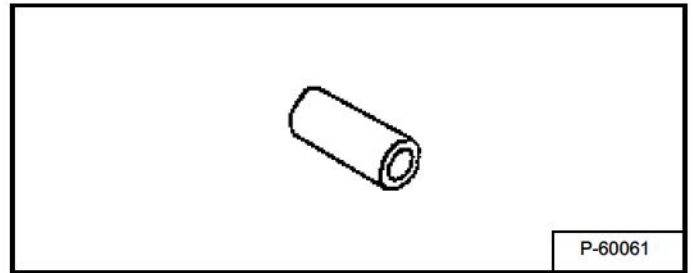
Right hand bit holder assembly [Figure 112-20-4].

Figure 112-20-5



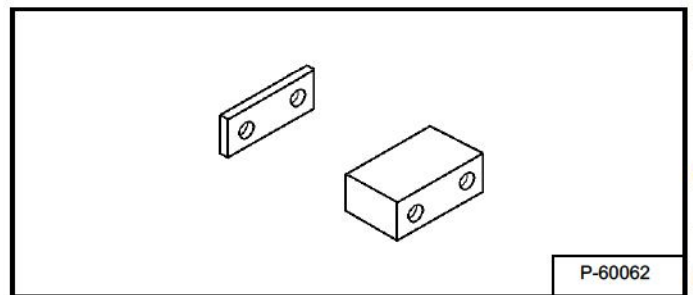
Left hand bit holder assembly [Figure 112-20-5].

Figure 112-20-6



Bushing [Figure 112-20-6].

Figure 112-20-7

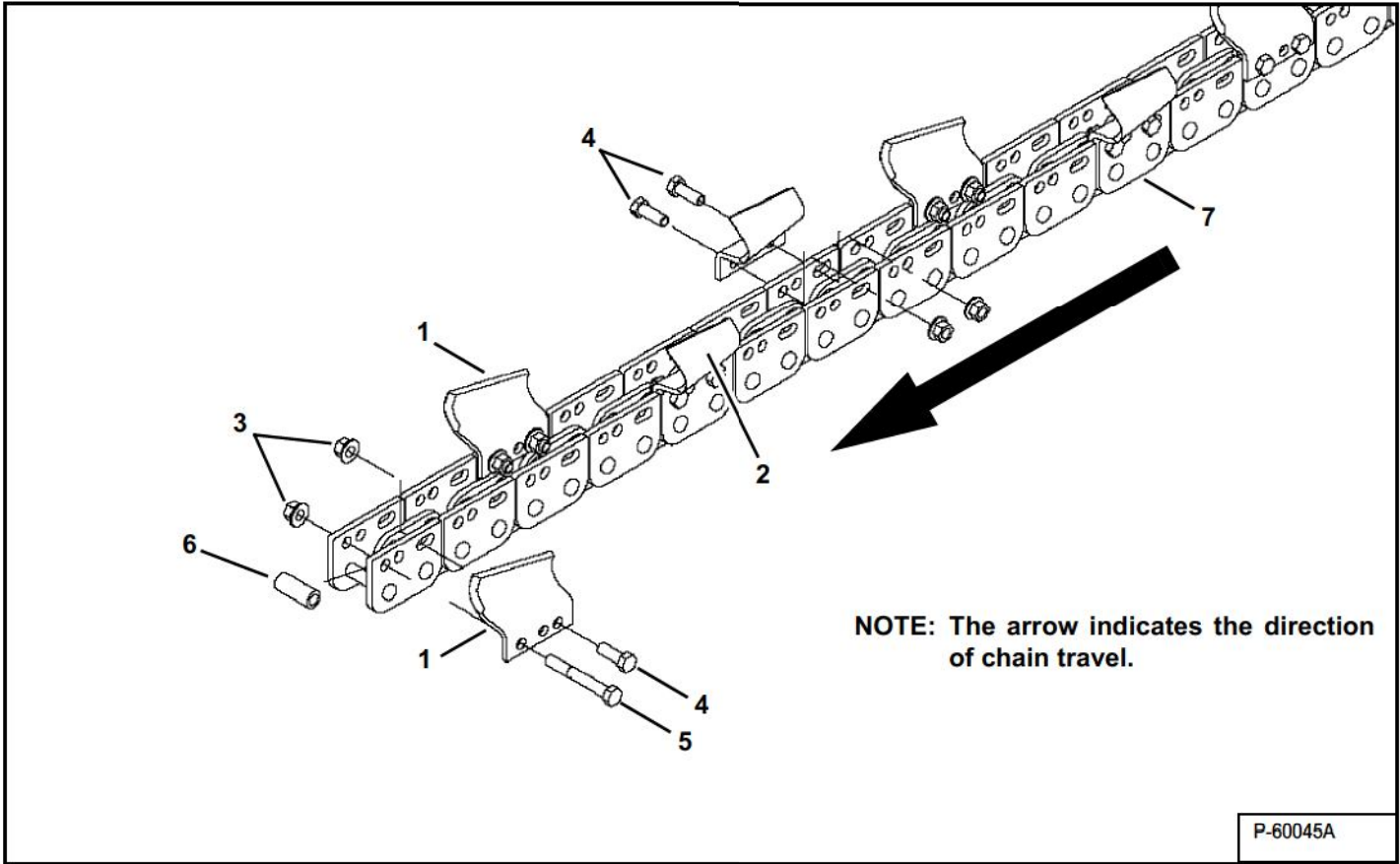


Spacers [Figure 112-20-7].

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**DOUBLE STANDARD PATTERNS (CONT'D)**

**Cup Tooth Parts Identification 0,61 m x 102 mm (2 ft x 4 in)**



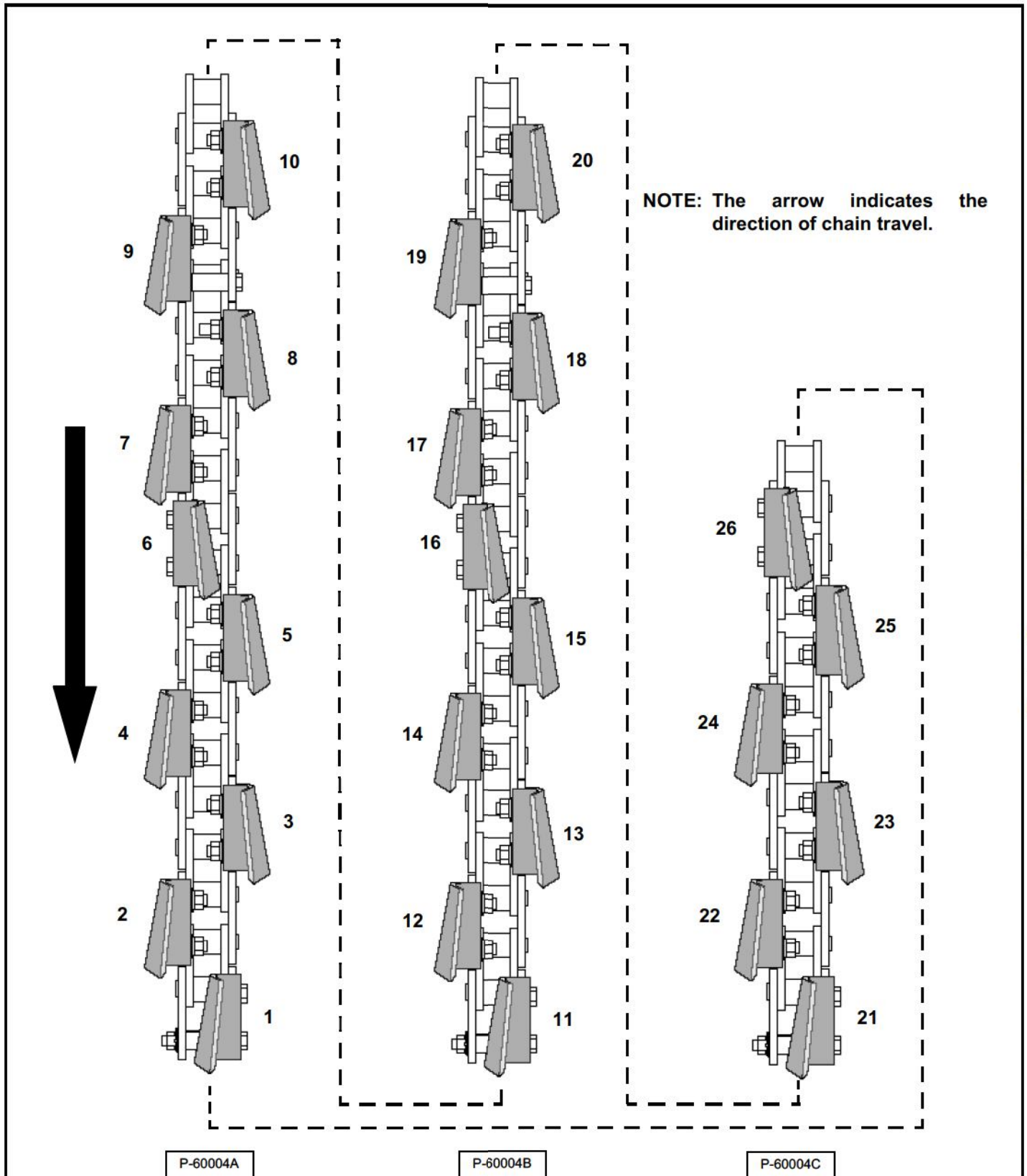
REF. NO.	PART NUMBER	DESCRIPTION	QTY.
1	6655759	RH Tooth	13
2	6655760	LH Tooth	13
3	83D6	Nut	52
4	17C616	Bolt	51
5	17C644	Bolt	1
6	6701880	Bushing (Used on connecting link only)	1
7	6959302	Chain (52 pitch)	1

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# DOUBLE STANDARD PATTERNS (CONT'D)

## Cup Tooth Pattern Installation 0,61 m x 102 mm (2 ft x 4 in)

**Instructions:** Install teeth 1 thru 26 as indicated below.



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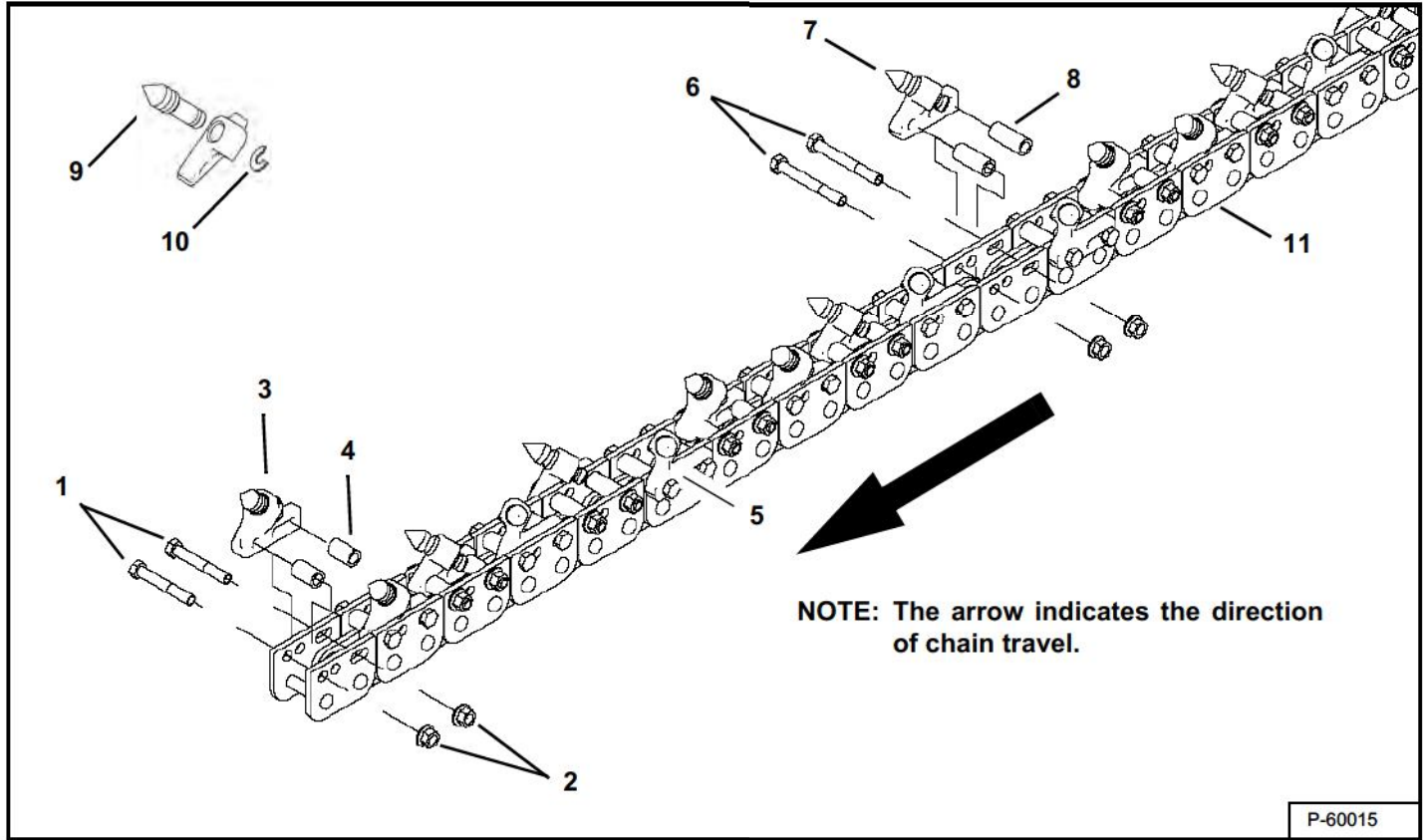
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## DOUBLE STANDARD PATTERNS (CONT'D)

Carbide Tooth Parts Identification 0,61 m x 102 mm (2 ft x 4 in)



REF NO.	PART NUMBER	DESCRIPTION	QTY.
1	17C640	Bolt	36
2	83D6	Nut	52
3	6655758	In-line Bit Holder	8
4	6701878	Bushing	16
5	6655756	LH Bit Holder	9
6	17C648	Bolt	16
7	6655757	RH Bit Holder	9
8	6701880	Bushing	16
9	6655755	Bit	26
10	6633840	Clip	26
11	6959302	Chain (52 pitch)	1

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