

NATIONAL HIGH SPEED BOLTMAKER

WHEN QUOTING OR PLACING AN ORDER, SPECIFY THE FOLLOWING:

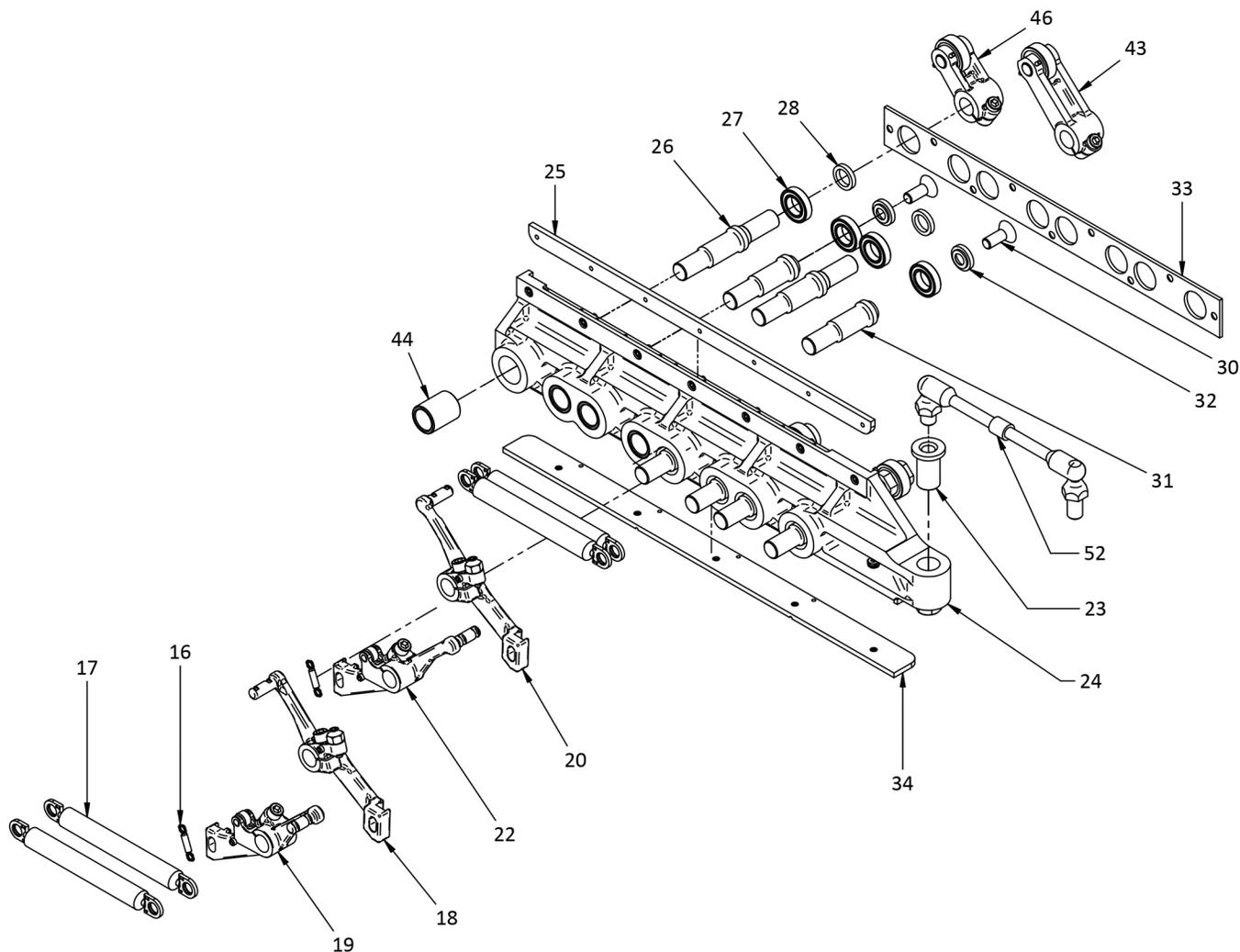
- Catalog & Page Number
- Machine Size
- Key Number
- Quantity
- Part Number (if available)

Please provide sample parts or prints for items not found in this catalog.

We at Star Metal Products look forward to serving you, and encourage you to review the following terms and conditions to ensure a mutually successful business transaction.

- Terms are net 30 days from shipment, F.O.B. Ourdock, Westlake, Ohio Freight Collect. All prices subject to change without notice.
- Our minimum billing is \$50.00
- Quotations are valid for 90 days unless otherwise specified.
- Star Metal Products Blanket Order Policy
Duration: Blanket Orders will be held for a maximum time period of six months.
Any line item open six months from the date of receipt of customer order will ship automatically. Duration of blanket order may extend up to one year, only if specific release quantities and release dates are supplied with customer order.
Releases: Upon completion of job order, 25% of each line item (with a minimum of 1 piece) will be shipped to customer. The balance of each line item will be held for release by customer within the six month time frame.
- Cancellation will be subject to a charge for any applicable material used and labor employed for work in progress.
- Returns: We regret that positively no tooling may be returned without factory authorization. Returns must be made within 60 days of receiving merchandise. We will not be responsible for shipping charges incurred by customers that deviate from this policy. We reserve the right to only repair tooling accepted under these conditions.

TRANSFER SLIDE

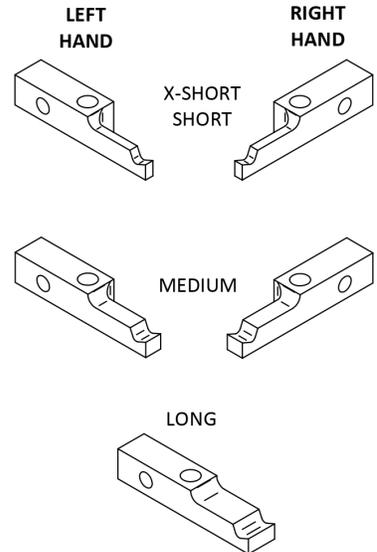
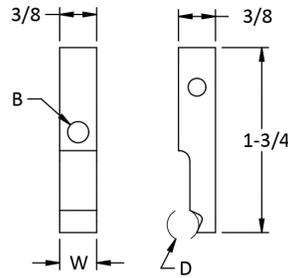


Key #	Description	Key #	Description
16	SPRING	27	BEARING
17	SPRING	28	SPACER
18	ARM	30	SCREW
19	ARM	31	SHAFT
20	ARM	32	RETAINER
22	ARM	33	PLATE
23	BUSHING	34	WEAR PLATE
24	SLIDE	43	ROLLER LEVER - LONG
25	WEAR PLATE	44	BUSHING
26	SHAFT	46	ROLLER LEVER - SHORT
		52	CONNECTION

NATIONAL 4L4, 55 PROG. BOLTMAKER TRANSFER FINGERS

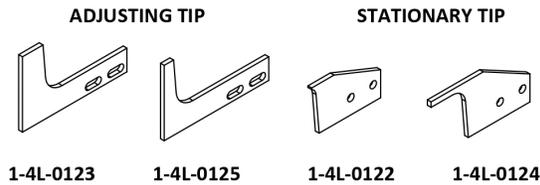
Size	W	D	Part #
X-SHORT	5/32	1/4	1-1413-1
		3/16	1-1413-2
		1/8	1-1413-3
		3/32	1-1413-4
SHORT	3/16	1/4	1-1414-1
		3/16	1-1414-2
		1/8	1-1414-3
		3/32	1-1414-4
MEDIUM	1/4	1/4	1-1415-1
		3/16	1-1415-2
		1/8	1-1415-3
		3/32	1-1415-4
LONG	3/8	1/4	1-1416-1
		3/16	1-1416-2
		1/8	1-1416-3
		3/32	1-1416-4

SPECIFY:
- PART #
- LEFT or RIGHT HAND

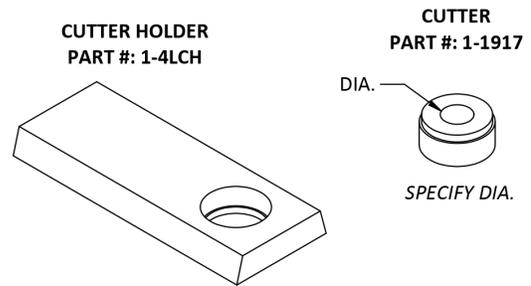


- FINGERS ARE HARDENED END ONLY
- TAPPED HOLE IS M5

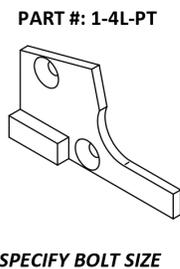
POINTER STATION



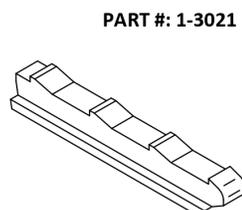
CUTTER STATION



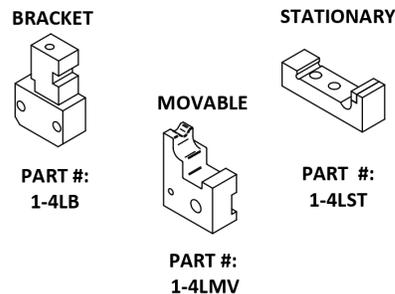
POINTER FEED CHUTE



BOLT STOP IN TRIM TOOL



POINTER CHUCK JAWS



POINTER

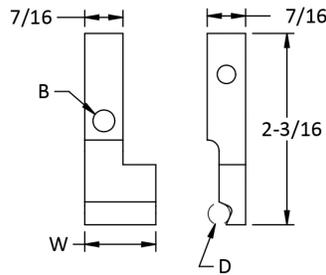


NATIONAL 5S3, 5L4, & #5 PROG. BOLTMAKER TRANSFER FINGERS

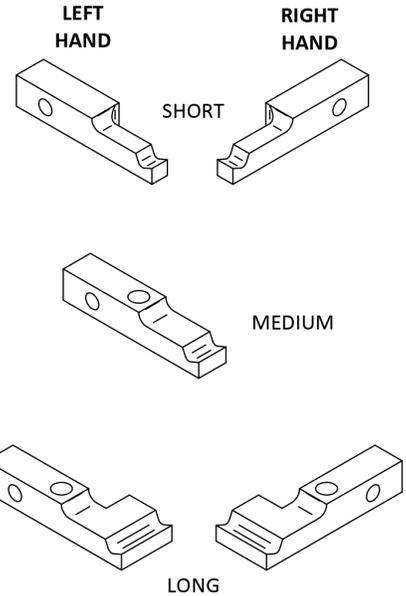
OLD STYLE B=7/32			
Size	W	D	Part #
SHORT	1/4	5/16	1-1401-1
		1/4	1-1401-2
MEDIUM	7/16	5/16	1-1402-1
		1/4	1-1402-2
LONG	5/8	5/16	1-1403-1
		1/4	1-1403-2

NEW STYLE B=11/32			
Size	W	D	Part #
SHORT	1/4	5/16	1-1401N-1
		1/4	1-1401N-2
MEDIUM	7/16	5/16	1-1402N-1
		1/4	1-1402N-2
LONG	5/8	5/16	1-1403N1
		1/4	1-1403N2

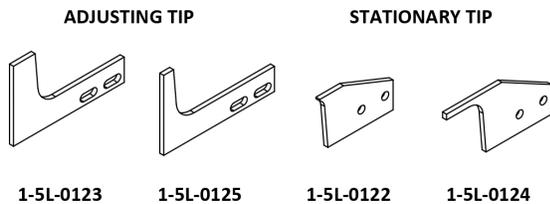
SPECIFY:
- PART #
- LEFT or RIGHT HAND



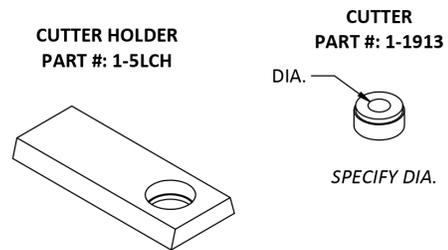
- FINGERS ARE HARDENED END ONLY
- TAPPED HOLE IS 1/4 - 28



POINTER STATION

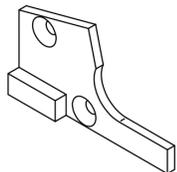


CUTTER STATION

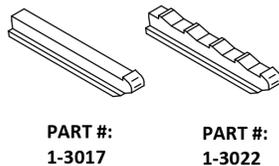


POINTER FEED CHUTE

PART #: 1-5L-PT
SPECIFY BOLT SIZE



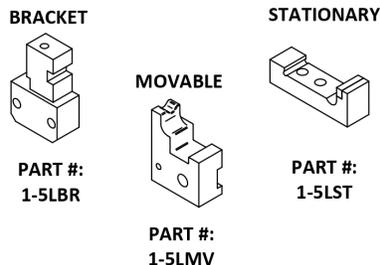
BOLT STOP IN TRIM TOOL



PART #: 1-3017

PART #: 1-3022

POINTER CHUCK JAWS



PART #: 1-5LBR

PART #: 1-5LMV

PART #: 1-5LST

POINTER

PART #: 1-5L-P



NATIONAL 6S3, 6L4, #6 PROG. BOLTMAKER

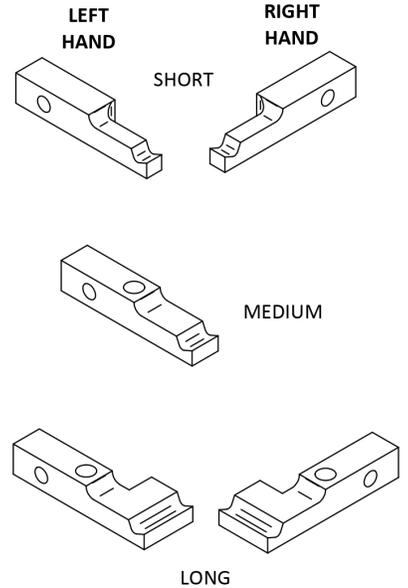
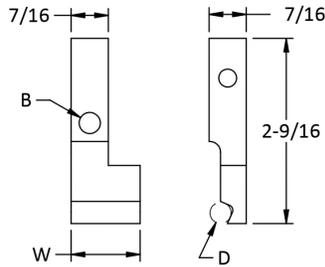
TRANSFER FINGERS

OLD STYLE B=7/32			
Size	W	D	Part #
SHORT	1/4	3/8	1-1404-1
		5/16	1-1404-2
		1/4	1-1404-3
MEDIUM	7/16	3/8	1-1405-1
		5/16	1-1405-2
		1/4	1-1405-3
LONG	3/4	3/8	1-1406-1
		5/16	1-1406-2
		1/4	1-1406-3

SPECIFY:

- PART #

- LEFT or RIGHT HAND

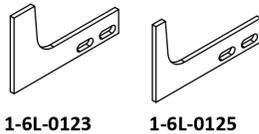


- FINGERS ARE HARDENED END ONLY
- TAPPED HOLE IS 1/4 - 28

NEW STYLE B=5/16			
Size	W	D	Part #
SHORT	1/4	3/8	1-1404N-1
		5/16	1-1404N-2
		1/4	1-1404N-3
MEDIUM	7/16	3/8	1-1405N-1
		5/16	1-1405N-2
		1/4	1-1405N-3
LONG	3/4	3/8	1-1406N-1
		5/16	1-1406N-2
		1/4	1-1406N-3

POINTER STATION

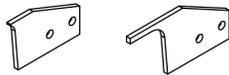
ADJUSTING TIP



1-6L-0123

1-6L-0125

STATIONARY TIP

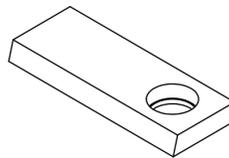


1-6L-0122

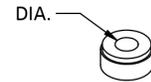
1-6L-0124

CUTTER STATION

CUTTER HOLDER
PART #: 1-6LCH



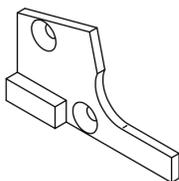
CUTTER
PART #: 1-1914



SPECIFY DIA.

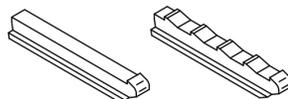
POINTER FEED CHUTE

PART #: 1-6L8L-PT



SPECIFY BOLT SIZE

BOLT STOP IN TRIM TOOL



PART #:
1-3018

PART #:
1-3023

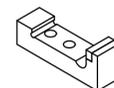
POINTER CHUCK JAWS

BRACKET



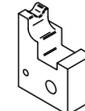
PART #:
1-6LBR

STATIONARY



PART #:
1-6LST

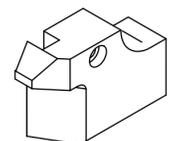
MOVABLE



PART #:
1-6LMV

POINTER

PART #: 1-6L-P



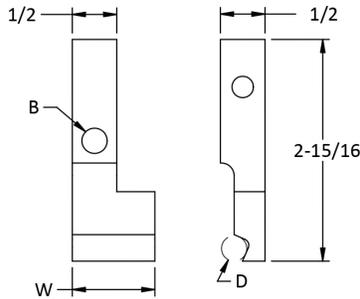
NATIONAL 8L4 BOLTMAKER

TRANSFER FINGERS

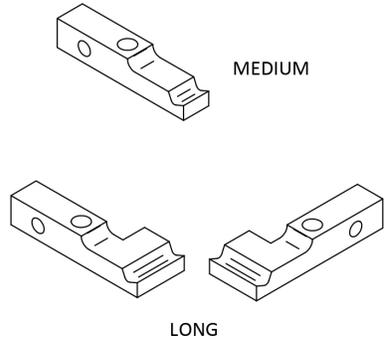
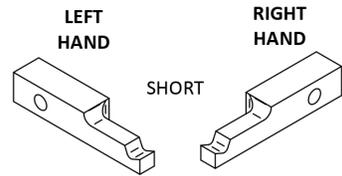
OLD STYLE B=1/4			
Size	W	D	Part #
SHORT	3/8	1/2	1-1407-1
		7/16	1-1407-2
		3/8	1-1407-3
MEDIUM	1/2	1/2	1-1408-1
		7/16	1-1408-2
		3/8	1-1408-3
LONG	13/16	1/2	1-1409-1
		7/16	1-1409-2
		3/8	1-1409-3

NEW STYLE B=3/8			
Size	W	D	Part #
SHORT	3/8	1/2	1-1407N-1
		7/16	1-1407N-2
		3/8	1-1407N-3
MEDIUM	1/2	1/2	1-1408N-1
		7/16	1-1408N-2
		3/8	1-1408N-3
LONG	13/16	1/2	1-1409N-1
		7/16	1-1409N-2
		3/8	1-1409N-3

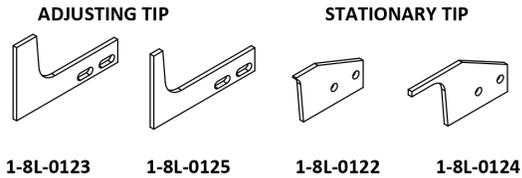
SPECIFY:
- PART #
- LEFT or RIGHT HAND



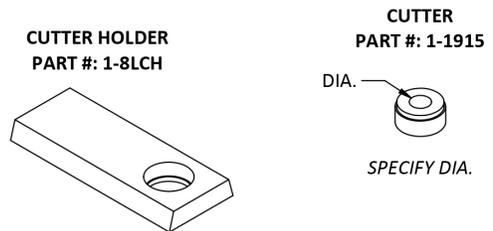
- FINGERS ARE HARDENED END ONLY
- TAPPED HOLE IS 5/16 - 24



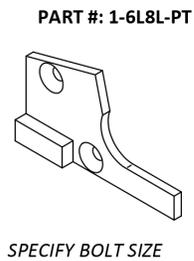
POINTER STATION



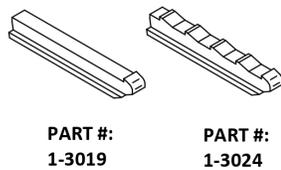
CUTTER STATION



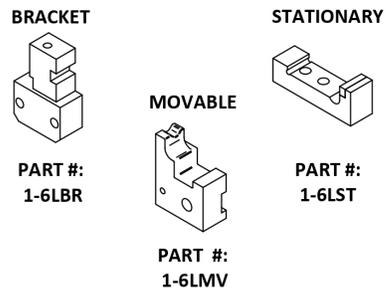
POINTER FEED CHUTE



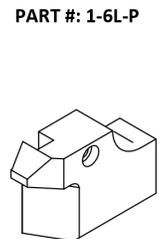
BOLT STOP IN TRIM TOOL



POINTER CHUCK JAWS



POINTER



NATIONAL 8L4 BOLTMAKER

TRANSFER FINGERS

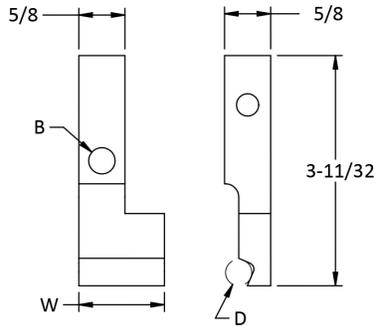
OLD STYLE B=5/16			
Size	W	D	Part #
SHORT	3/8	5/8	1-1410-1
		1/2	1-1410-2
		9/16	1-1410-3
MEDIUM	5/8	5/8	1-1411-1
		1/2	1-1411-2
		9/16	1-1411-3
LONG	1-1/8	5/8	1-1412-1
		1/2	1-1412-2
		9/16	1-1412-3

NEW STYLE B=1/2			
Size	W	D	Part #
SHORT	3/8	5/8	1-1410N-1
		1/2	1-1410N-2
		9/16	1-1410N-3
MEDIUM	5/8	5/8	1-1411N-1
		1/2	1-1411N-2
		9/16	1-1411N-3
LONG	1-1/8	5/8	1-1412N-1
		1/2	1-1412N-2
		9/16	1-1412N-3

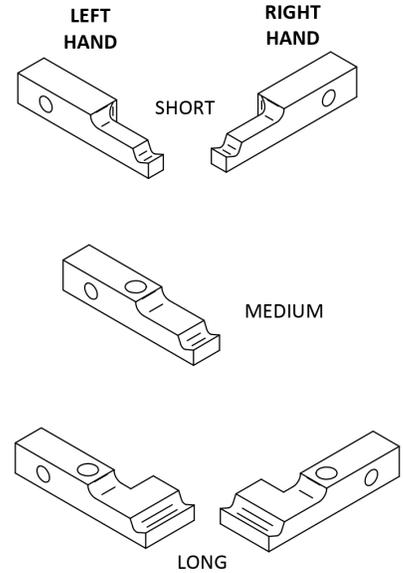
SPECIFY:

- PART #

- LEFT or RIGHT HAND

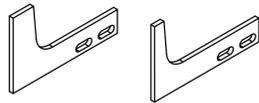


- FINGERS ARE HARDENED END ONLY
- TAPPED HOLE IS 3/8 - 24



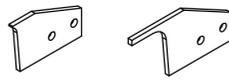
POINTER STATION

ADJUSTING TIP



1-10L-5123 1-10L-5125

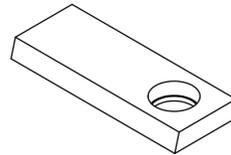
STATIONARY TIP



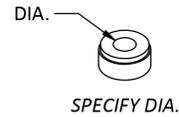
1-10L-5122 1-10L-5124

CUTTER STATION

CUTTER HOLDER
PART #: 1-10LCH

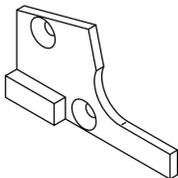


CUTTER
PART #: 1-1916



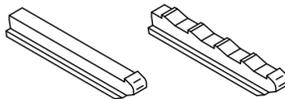
POINTER FEED CHUTE

PART #: 1-6L8L-PT



SPECIFY BOLT SIZE

BOLT STOP IN TRIM TOOL

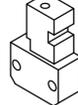


PART #: 1-3020

PART #: 1-3025

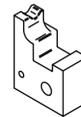
POINTER CHUCK JAWS

BRACKET



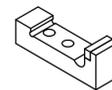
PART #: 1-6LBR

MOVABLE



PART #: 1-6LMV

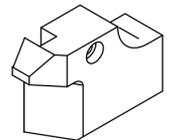
STATIONARY



PART #: 1-6LST

POINTER

PART #: 1-6L-P





Loma Adriana No. 1 Desp. 202
Fracc. La Loma de Cristy Naucalpan
53120. Edo de México



55 5343 8259



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