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Process Routing

	ept Oper	Operation Description	Part Numbers
8			15461
		and Trigger Link Roller Hole - Spot, Drill, and Ream Sear Block Stud Hole	
***	5028		15461
	8 8		
	5/5SIU		15461
33 8	567 15	Grind Radius	15461
38	2218872 §	Degrease, Carbo-Nitride (Micro-Carb), Oil Quench, Degrease	15461
*			
***	551 30	Lindberg Draw	15461
***	257 35	Inspect for Rockwell Hardness	15461·
		To MRP Crib #29	15461

Operation Step Detail

Operation: 5

Step

Operation / Step Description

Spot Drill and Ream Sear Block Pin Hole and Trigger Link Roller Hole - Spot, Drill, and Ream Sear Block Stud Hole

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Operation Tool Detail

Operation: 5

```
Tool Number
                                     Tooling Description
Std
                  6 Spindle Drill Press
                  Spot Drill - (.126 Dia.)
std
Std
                 Reamer - RS-4 - (.1263 Dia.)
                  Drill - (.122 Dia.)
SStd
                  Drill - #42 (.0935 Dia.)
∰Std
≋std
                  Drill - #44 (.086 Dia.)
≋std
                  Reamer - RS-2 - (.0938 Dia.)
D-85090
                  Drill Jig
                                              Gages:
                 Plug Gage - .127/.126 - Dia.
 B-80219-A
                            - Trigger Link Roller Hole & Sear Block Pin Hole
 В-80252-Н
                  Plug Gage - .0942/.0932 - Dia. Sear Block Stud Hole
```

Operation Procedure Notes

Operation: 5

Description

Operation Step Detail

Operation: 8

Step

Operation / Step Description

File to Deburr

Operation Tool Detail

Operation: 8

Tool Number

Tooling Description

Std File

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Operation Step Detail

Operation: 10

Operation / Step Description

C'Sink (3) Holes Both Sides

Operation Tool Detail

Operation: 10

Tool Number

Tooling Description

std

Drill Press

Std

C'Sink - 3/16" Dia.

std

Holding Block

Operation Procedure Notes

Operation: 10

Description

NOTE: .010 x 45 Degree Max. Chamfer (3) Holes Both Sides

Operation Step Detail

Operation: 15

Operation / Step Description

Grind Radius

Operation Tool Detail

Operation: 15

Tool Number

Tooling Description

sta Std B-85093 #2 B&S Surface Grinder

Grinding Wheel Grinding Fixture

std

320 Grit Paper

D-85092

Dial Base Gage - .454/.452 - Position of Radius from

Centerline of Sear Block Pin Hole

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Operation Procedure Notes Operation: 15

Description

Note: Deburr Both Sides In Direction From Radius Toward Sear Block Pin Hole

Using #320 Paper - See Photo Sample

Note: Grind in the Direction Towards the Sear Block Stud Hole with a Required

Finish of 32 Microinches

Procedure:

1. Establish .453 +/-.001 Dim. After Wheel Dress

2. Raise Wheel .010 Before 1st Pass Grind

Feed Wheel in .002 Increments per Pass Rotation until Dim. .453 +/-.001

is Attained

Operation Step Detail

Operation: 25

step

Operation / Step Description

Degrease, Carbo-Nitride (Micro-Carb), Oil Quench, Degrease

Operation Tool Detail

Operation: 25

Tool Number

Tooling Description

std

Micro-Carb Furnace

Std

Basket - 12"x20"x2" Deep

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Operation Procedure Notes Operation: 25

Description

PROCESS RECORD - HEAT TREAT SPECIFICATION

MATERIAL & SPECIFICATION: C-1018

TEMPERATURE: .75 Carbon Pot. @ 1700 Degrees F

MAXIMUM LOAD: 2000 Pcs. - 2 Baskets - 1000 Pcs per Basket

TIME: 3.5 Hours

QUENCH: Oil

REMARKS: Degrease

INSPECT FOR: File Hard to Insure Proper Quench

HEAT TREAT INSPECTION:

STANDARD PRACTICE NO:

HARDNESS LIMITS:

APPEARANCE OF PARTS: Clean & Free of Oil

Operation Step Detail

Operation: 30

Step

Operation / Step Description

Lindberg Draw

Operation Tool Detail Operation: 30

Tool Number

Tooling Description

Std

Lindberg Furnace

Std

Basket - 12"x20"x2" Deep

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Operation Procedure Notes Operation: 30

Description

PROCESS RECORD - HEAT TREAT SPECIFICATION

MATERIAL & SPECIFICATION: C-1018

TEMPERATURE: 350 - 400 Degrees F

MAXIMUM LOAD: 2000 Pcs. - Same Baskets as Used for Heat Treat Op.

TIME: 1 Hour @ Temp.

QUENCH: Air Cool

REMARKS:

INSPECT FOR:

HEAT TREAT INSPECTION:

STANDARD PRACTICE NO:

HARDNESS LIMITS:

APPEARANCE OF PARTS:

Operation Step Detail

Operation: 35

Step

Operation / Step Description

Inspect for Rockwell Hardness

Operation Tool Detail Operation: 35

Tool Number

Tooling Description

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Rockwell Hardness Tester

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Operation Procedure Notes Operation: 35

Description

PROCESS RECORD - HEAT TREAT SPECIFICATION

MATERIAL & SPECIFICATION: C-1018

TEMPERATURE:

MAXIMUM LOAD:

TIME:

QUENCH:

REMARKS:

INSPECT FOR: Rockwell Hardness

HEAT TREAT INSPECTION:

STANDARD PRACTICE NO:

HARDNESS LIMITS: 15N - 88-92

APPEARANCE OF PARTS: Clean & Free of Oil

Document Number: Sear Block XP100 Rev:

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