Process Header

91919

Process Header Document ID: SEAR SAFETY CAM XP100 Remington Arms Company Part Name: SEAR SAFETY CAM Product Line: C/F RIFLE Effective Date: 09-NOV-1992-09:00:00 Engineering Group: RIFLE Origination Date: 31-OCT-1992 Process Revision Reasons Date: Reason For Revision: Eng Log #: 17-OCT-1992 RETYPE PROCESS FROM 290373 - REPLACES OLD PAPER COPY ERF#293175 GLC 293323 06-Nov-1992 Chg. Description Op. #59 Process Approval List Approved By: Badge #: Date: Designation: JACKSORA Process General Notes Notes: Process Material Part Number Description Qnty 14269 SEAR SAFETY CAM - XP100

POWDER METAL BLANK

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Process Routing

pt Oper	Operation Description	Part Numbers
8575 35	MILL SPRING SEAT	14269
8575 40	DEBURR	14269
8575 42	MILL RADIUS	14269
8575 43	DEBURR	14269
8551 45	MICROCARB HARDEN	14269
932 502 6	LINDBERG DRAW	14269
9257 55	INSPECT FOR ROCKWELL HARDNESS	14269
9279 56	SAND TUMBLE	14269
8574 58	SURFACE GRIND CONNECTOR SURFACE AND LABEL PAN WITH RED TAG MARKED "READY FOR PLATE"	14269
9257 55 9279 56 8574 58 59 8567 61	TO MRP CRIB 11 - TO BE SENT TO VENDOR FOR CHROME PLATE - INSPECT UPON RETURN	14269 14269 14269 14269 14269 14269 14269 14269 14269 14269 14269 14269
8567 61	INSPECT FOR FLATNESS	14269
	GRIND CONECTOR SURFACE (DIP IN STEELGARD)	14269
8567 63	DEMAGNETIZE	14269
	TO MRP CRIB #14	

Operation Step Detail

Operation: 35

Step

Operation / Step Description

MILL SPRING SEAT

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Operation Tool Detail

Operation: 35

Tool Number Tooling Description

B-85029 VISE JAWS

STD. 3" VISE

STD. ARBOR 1" DIA.

A-85361 FORM CUTTER

Operation Procedure Notes

TEMPLATE

Operation: 35

"B" = .945/.935

DIAL BASE GAGE "A" = .235/.225

Description

Operation Step Detail

Operation: 40

Step Operation / Step Description

BURR

C-85031

A-85032

Operation Tool Detail

Operation: 40

Tool Number

Tooling Description

STD.

FILE

Operation Step Detail

Operation: 42

Step

Operation / Step Description

MILL RADIUS

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Operation Tool Detail

Operation: 42

Tool Number Tooling Description

B-45453 VISE JAWS

A-45462 ARBOR CUTTER

C-XP100-CL-35 COMPARATOR SCREEN

Operation Step Detail

Operation: 43

Step

Operation / Step Description

BURR

Operation Tool Detail

Operation: 43

Tool Number

Tooling Description

STD. FILE

Operation Step Detail ..

Operation: 45

Step

Operation / Step Description

MICROCARB HARDEN

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Rev:

Operation Procedure Notes Operation: 45

Description

PROCESS RECORD - HEAT TREAT SPECIFICATION

MATERIAL & SPECIFICATION: HD2020

TEMPERATURE: 1650 deg. 3 1/2 HRS. .90C POTENTIAL

MAXIMUM LOAD:

TIME:

QUENCH:

REMARKS:

INSPECT FOR:

HEAT TREAT INSPECTION:

STANDARD PRACTICE NO:

HARDNESS LIMITS:

APPEARANCE OF PARTS:

Operation Step Detail

Operation: 50

Step

Operation / Step Description

LINDBERG DRAW

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Operation Procedure Notes Operation: 50

Description

PROCESS RECORD - HEAT TREAT SPECIFICATION

MATERIAL & SPECIFICATION: HD2020

TEMPERATURE: 350 deg. F

MAXIMUM LOAD:

TIME:

OUENCH:

REMARKS:

INSPECT FOR:

HEAT TREAT INSPECTION:

STANDARD PRACTICE NO:

HARDNESS LIMITS:

APPEARANCE OF PARTS:

Operation Step Detail

Operation: 55

Operation / Step Description

INSPECT FOR ROCKWELL HARDNESS

Operation Tool Detail Operation: 55

Tool Number

Tooling Description

STD.

ROCKWELL HARDNESS TESTER

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Description PROCESS RECORD - HEAT TREAT SPECIFICATION MATERIAL & SPECIFICATION: HD2020 TEMPERATURE: MAXIMUM LOAD: TIME: QUENCH: REMARKS: INSPECT FOR: ROCKWELL HARDNESS HEAT TREAT INSPECTION: STANDARD PRACTICE NO: HARDNESS LIMITS: FILE HARD RC50 MIN APPEARANCE OF PARTS: Operation Step Detail Operation: 56 Step Operation / Step Description SAND TUMBLE

Operation Tool Detail Operation: 56

Tool Number Tooling Description

STD. BAIRD BARREL (TIME 1 hr.) (PCS: 1000)

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Operation Step Detail

Operation: 58

Operation / Step Description

SURFACE GRIND CONNECTOR SURFACE AND LABEL PAN WITH RED TAG MARKED-(READY FOR PLATE)

Operation Tool Detail

Operation: 58

Tool Number

Tooling Description

STD.

GRINDING WHEEL

STD.

1" MICROMETERS

(.346 / .341)

Operation Procedure Notes

Operation: 58

Description

Operation Step Detail

Operation: 61

Step

Operation / Step Description

INSPECT FOR FLATNESS 100%

Operation Tool Detail

Operation: 61

Tool Number

Tooling Description

C-44522

WIDTH GAGE - PASS SEAR SAFETY CAM THRU 100%

Operation Procedure Notes

Operation: 61

Description

REJECT ALL COMPONENTS WHICH DO NOT PASS GAGE

Operation Step Detail • Operation: 62

Step

Operation / Step Description

GRIND CONNECTOR SURFACE (DIP IN STEELGARD)

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Operation Tool Detail

Operation: 62

Tool Number

Tooling Description

B-41453

GRINDING FIXTURE

STD.

NORTON WHEEL (WHITE SAUCER) 6" x 7/16" x 1 1/4"

38A100 M8VBE

Operation Procedure Notes

Operation: 62

Description

NOTE: USE HORIZONTAL DRESSER TO GRIND AT 6 deg. ANGLE

SUSE A MIXTURE OF STEELGARD & STODDARD SOLVENT (1:10 RATIO)

DIP A LOAD OF SEAR SAFETY CAMS AFTER GRINDING CONNECTOR SURFACE TO PRVENT

RUSTING.

DRAIN THE EXCESS OIL

Operation Step Detail

Operation: 63

Step

Operation / Step Description

DEMAGNETIZE

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