

Part Program: BOLT BODY
Inspector: Administrator

Date/Time: 08/14/2000 13:45:32
CMM: CMM1

REAR DATUM-A DIAMETER

#1

TYPE: O.D.

NAME: DATUM A REAR

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
DI	0.6966	0.6950	0.0020	0.0020	0.0016	++++

DATUM-A DIAMETER AT FRONT OF BOLT BODY

#2

TYPE: O.D.

NAME: DATUM A FRONT

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
DI	0.6965	0.6950	0.0020	0.0020	0.0015	+++

DATUM-C

#3

TYPE: BORE

NAME: DATUM C HOLE

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	0.0039	0.0000	0.0040	0.0040	0.0039	++++
Y	0.2106	0.2100	0.0040	0.0040	0.0006	+
DI	0.2503	0.2500	0.0020	0.0020	0.0003	+
PS			0.0040		0.0079	0.0017

OVERALL LENGTH OF BOLT BODY - ALSO DATUM-D SURFACE

OVERALL LENGTH OF PART

#4

TYPE: POINT

NAME: PARTLENGTH

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
Y	5.0631	5.0650	0.0050	0.0050	-0.0019	--

STRAIGHT NOTCH SURFACE .094 FROM CENTERLINE

#5

TYPE: PLANE

NAME: RH NOTCH SURFACE

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	0.0923	0.0940	0.0050	0.0050	-0.0017	--

.094 RADIUS AT BOTTOM OF FIRING PIN HEAD CAM NOTCH

#6

TYPE: I.D.

NAME: FIRING PIN HEAD NOTCH RADIUS

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	0.0024	0.0000	0.0050	0.0050	0.0024	++
RD	0.0888	0.0940	0.0050	0.0050	-0.0052	-0.0002

MAX DEPTH OF FIRING PIN CAM RADIUS FROM DATUM-D

#7

TYPE: POINT

ET06085

NAME: RADIUS_MAX_DEPTH

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
Y	-0.2330	-0.2340	0.0050	0.0050	0.0010	+

CAM SURFACE LOCATION @Y-.0933 & Z.2649 (MATHEMATICALLY DERIVED POINT)

#8

TYPE: POINT

NAME: CAM_SURFACE_POINT_1

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	-0.1522	-0.1493	0.0050	0.0050	-0.0029	---

CAM SURFACE @Y-.0466 Z.2349 (MATHEMATICALLY DERIVED POINT ON HELIX OF CAM)

#9

TYPE: POINT

NAME: CAM_SURFACE_POINT_2

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	-0.1886	-0.1902	0.0050	0.0050	0.0016	++

BOTTOM .125R GROOVE: X-POSITION & RADIUS

#10

TYPE: I.D.

NAME: BOTTOM GROOVE

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	0.0010	0.0000	0.0050	0.0050	0.0010	+
RD	0.1237	0.1250	0.0050	0.0050	-0.0013	--

DISTANCE OF BOTTOM GROOVE FROM A-DATUM TO EDGE OF GROOVE RADIUS

#11

TYPE: POINT

NAME: BOTTOM GROOVE Z

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
Z	0.2995	0.3000	0.0050	0.0050	-0.0005	-

TOP .125R GROOVE X-POSITION & RADIUS

#12

TYPE: I.D.

NAME: TOP GROOVE

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	-0.0008	0.0000	0.0050	0.0050	-0.0008	-
RD	0.1266	0.1250	0.0050	0.0050	0.0016	++

MAX. DISTANCE BETWEEN TOP & BOTTOM .125R GROOVES

#13

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
DS	0.5974	0.6000	0.0050	0.0050	-0.0026	---

REAR INSIDE DIAMETER RELATIVE TO DATUM-A

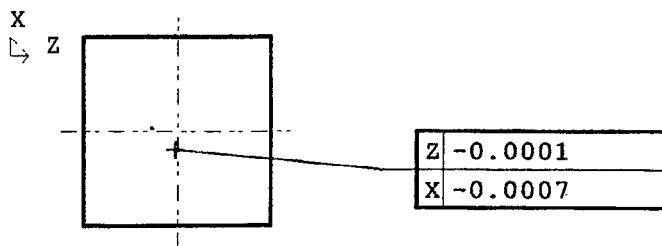
#14

TYPE: I.D.

NAME: ID_REAR

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
Z	-0.0001	0.0000	0.0035	0.0035	-0.0001	-
X	-0.0007	0.0000	0.0035	0.0035	-0.0007	-
DI	0.5006	0.4980	0.0030	0.0030	0.0026	++++

ET06086



ID AT FRONT OF BOLT BODY RELATIVE TO A-DATUM

#15

TYPE: I.D.

NAME: ID_FRONT

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
Z	-0.0002	0.0000	0.0035	0.0035	-0.0002	-
X	-0.0006	0.0000	0.0035	0.0035	-0.0006	-
DI	0.5005	0.4980	0.0030	0.0030	0.0025	++++



ANSI COAXIALITY: To DATUM A LINE

#16

FEATURE #159

TYPE: LINE

NAME: ID AXIS

	ACTUAL	NOMINAL
X	-0.0006	0.0000
Y	-2.6779	-2.5971
Z	-0.0002	0.0000
I	0.0000	0.0000
J	1.0000	1.0000
K	0.0000	- 0.0000

#17

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
PS			0.0100		0.0014	+

BOLT HANDLE HOLE AT 60 DEGREES FROM DATUMS A, C & FROM DATUM-D

#18

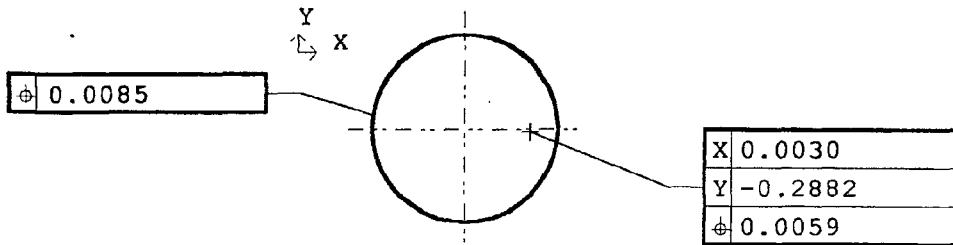
TYPE: I.D.

NAME: BOLT_HANDLE_HOLE

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	0.0030	0.0000	0.0050	0.0050	0.0030	+++
Y	-0.2882	-0.2880	0.0050	0.0050	-0.0002	-

ET06087

DI	0.2575	0.2570	0.0020	0.0020	0.0005	+
PS			0.0060		0.0059	+++

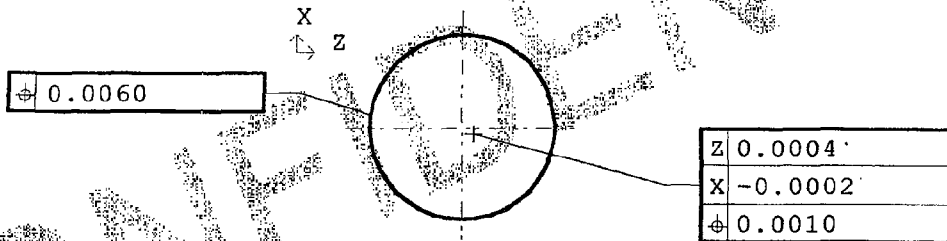


MAX GROOVE DEPTH FROM DATUM-D (.450+.130)
 DIAMETER & POSITION OF .600 DIAMETER GROOVE
 #19

TYPE: CIRCLE

NAME: GROOVE DIAMETER

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	-0.0002	0.0000	0.0080	0.0080	-0.0002	-
Z	0.0004	0.0000	0.0080	0.0080	0.0004	+
DI	0.5997	0.6000	0.0050	0.0050	-0.0003	-
PS			0.0060		0.0010	+



.450 DISTANCE OF GROOVE FROM DATUM-D
 #20

TYPE: POINT

NAME: 450 DISTANCE

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
Y	-0.4418	-0.4500	0.0050	0.0050	0.0082	0.0032

.130 GROOVE WIDTH

#21

TYPE: DISTANCE

NAME: 130 GROOVE WIDTH

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
Y	-0.1374	-0.1300	0.0050	0.0050	-0.0074	-0.0024

ET06088