

Part Program: BOLT BODY
Inspector: Administrator

Date/Time: 08/14/2000 13:38:23
CMM: CMM1

REAR DATUM-A DIAMETER

#1

TYPE: O.D.

NAME: DATUM A REAR

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
DI	0.6988	0.6950	0.0020	0.0020	0.0038	0.0018

DATUM-A DIAMETER AT FRONT OF BOLT BODY

#2

TYPE: O.D.

NAME: DATUM A FRONT

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
DI	0.6983	0.6950	0.0020	0.0020	0.0033	0.0013

DATUM-C

#3

TYPE: BORE

NAME: DATUM C HOLE

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	-0.0003	0.0000	0.0040	0.0040	-0.0003	-
Y	0.2101	0.2100	0.0040	0.0040	0.0001	+
DI	0.2505	0.2500	0.0020	0.0020	0.0005	+
PS			0.0040		0.0006	+

OVERALL LENGTH OF BOLT BODY - ALSO DATUM-D SURFACE

OVERALL LENGTH OF PART

#4

TYPE: POINT

NAME: PART LENGTH

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
Y	5.0640	5.0650	0.0050	0.0050	-0.0010	-

STRAIGHT NOTCH SURFACE .094 FROM CENTERLINE

#5

TYPE: PLANE

NAME: RH NOTCH SURFACE

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	0.0892	- 0.0940	0.0050	0.0050	-0.0048	----

.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	0.0915	0.0940	0.0050	0.0050	-0.0025	--

MAX DEPTH OF FIRING PIN CAM RADIUS FROM DATUM-D

#7

TYPE: POINT

ET06077

NAME: RADIUS MAX_DEPTH

Y	-0.2341	-0.2340	0.0050	0.0050	-0.0001	-
---	---------	---------	--------	--------	---------	---

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	-0.1544	-0.1493	0.0050	0.0050	-0.0051	-0.0001

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	-0.1907	-0.1902	0.0050	0.0050	-0.0005	-

BOTTOM .125R GROOVE: X-POSITION & RADIUS

#10

TYPE: I.D.

NAME: BOTTOM_GROOVE

X	-0.0014	0.0000	0.0050	0.0050	-0.0014	--
RD	0.1240	0.1250	0.0050	0.0050	-0.0010	-

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	0.3001	0.3000	0.0050	0.0050	0.0001	+

TOP .125R GROOVE X-POSITION & RADIUS

#12

TYPE: I.D.

NAME: TOP GROOVE

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	0.0012	0.0000	0.0050	0.0050	0.0012	+
RD	0.1280	0.1250	0.0050	0.0050	0.0030	+++

MAX. DISTANCE BETWEEN TOP & BOTTOM .125R GROOVES

#13

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
DS	0.5979	0.6000	0.0050	0.0050	-0.0021	--

REAR INSIDE DIAMETER RELATIVE TO DATUM-A

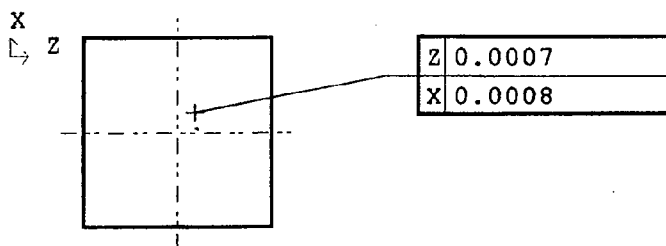
#14

TYPE: I.D.

NAME: ID_REAR

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
Z	0.0007	0.0000	0.0035	0.0035	0.0007	+
X	0.0008	0.0000	0.0035	0.0035	0.0008	+
DI	0.5017	0.4980	0.0030	0.0030	0.0037	0.0007

ET06078



ID AT FRONT OF BOLT BODY RELATIVE TO A-DATUM

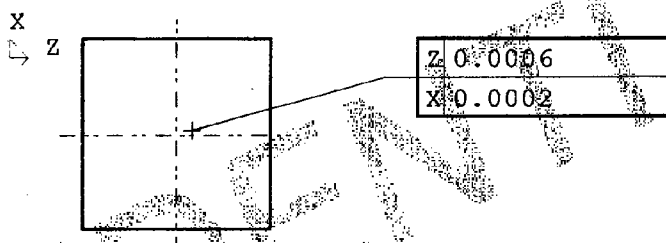
#15

TYPE: I.D.

NAME: ID_FRONT

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
Z	0.0006	0.0000	0.0035	0.0035	0.0006	+
X	0.0002	0.0000	0.0035	0.0035	0.0002	+
DI	0.5011	0.4980	0.0030	0.0030	0.0031	0.0001

83



ANSI COAXIALITY: To DATUM A LINE

#16

FEATURE #91

TYPE: LINE

NAME: ID AXIS

	ACTUAL	NOMINAL
X	0.0005	0.0000
Y	-2.6780	-2.5986
Z	0.0006	0.0000
I	0.0002	0.0000
J	1.0000	1.0000
K	0.0000	- 0.0000

#17

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
PS			0.0100		0.0021	+

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

#18

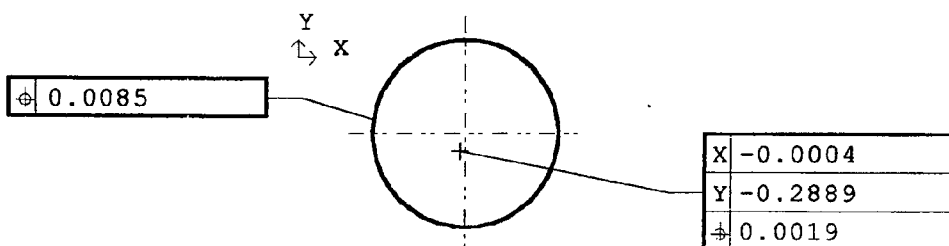
TYPE: I.D.

NAME: BOLT_HANDLE_HOLE

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	-0.0004	0.0000	0.0050	0.0050	-0.0004	-
Y	-0.2889	-0.2880	0.0050	0.0050	-0.0009	-

ET06079

DI	0.2575	0.2570	0.0020	0.0020	0.0005	+
PS			0.0060		0.0019	+

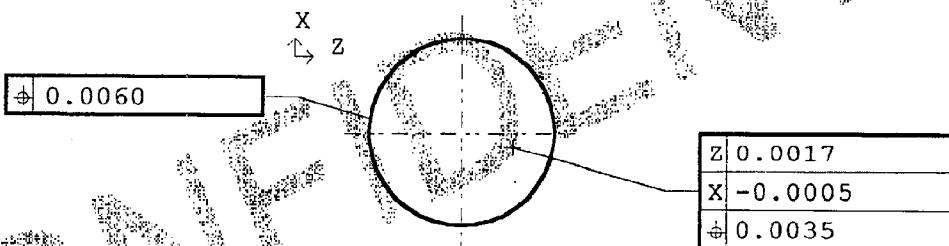


MAX GROOVE DEPTH FROM DATUM-D (.450+.130)
DIAMETER & POSITION OF .600 DIAMETER GROOVE
#19

TYPE: CIRCLE

NAME: GROOVE DIAMETER

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
X	-0.0005	0.0000	0.0080	0.0080	-0.0005	-
Z	0.0017	0.0000	0.0080	0.0080	0.0017	+
DI	0.5990	0.6000	0.0050	0.0050	-0.0010	-
PS			0.0060		0.0035	+++



.450 DISTANCE OF GROOVE FROM DATUM-D

#20

TYPE: POINT

NAME: 450 DISTANCE

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
Y	-0.4426	-0.4500	0.0050	0.0050	0.0074	0.0024

.130 GROOVE WIDTH

#21

TYPE: DISTANCE

NAME: 130 GROOVE WIDTH

	ACTUAL	NOMINAL	+ TOL	- TOL	DEV	OUT-TOL
Y	-0.1373	-0.1300	0.0050	0.0050	-0.0073	-0.0023

ET06080