

PE07-054

TBB Emergency Exit Door Handle

Attachment 1

**Response to Question 3.m
Copies of field reports**



A Subsidiary of **FREIGHTLINER**
CORPORATION

Field Service Report SG060908

12/6/2007

Distributor: 99626 MACNAB BUS SALES

Customer:

Contact: Sandra

Report No: SG060908

Report Type: Authorization

Type: Policy

Area: BODY

Origination: 9/6/2006

VOC:

Group: 0200 PASSENGER DOORS, ROOF HATCHE

Expiration: 12/5/2006

Amount / Unit: 50.74

Component: 0249 Rear Emergency - Latch/Hinge/Prop

Units: 3

Item: 024901 None

Total Amount: 152.22

Failure: W66 Corrosion

<u>VIN</u>	<u>Body No</u>	<u>In Service</u>	<u>Mileage</u>	<u>Model</u>	<u>Paid Status</u>	<u>Paid Amt</u>
1T88H4D1551	435042	9/7/2004	64,113	8S	Closed	0.00
1T88H4D1751	435151	9/7/2004	73,503	8S	Closed	0.00
1T88R4E1351	436119	9/7/2004	57,434	8S	Closed	0.00
Total Paid:						0.00

Description

rear door handles have corroded badly, new handles painted and installed, handle only carries a one year warranty, cover the replacement under policy



Field Service Report RM0207100

12/6/2007

A Subsidiary of FREIGHTLINER CORPORATION

Distributor: 39050 ROHRER ENTERPRISES, INC.

Customer: [REDACTED]

Contact: Julisa

Report No: RM0207100

Report Type: FSR Type: Warranty

Area: BODY

Origination: 7/24/2002

VOC:

Group: 0200 PASSENGER DOORS, ROOF HATCHES

Expiration: 11/1/2002 Amount/Unit: 0.00

Component: 0249 Rear Emergency - Latch/Hinge/Prop

Units: 1

Item: 024901 None

Total Amount: 0.00

Failure: W39 Corrosion, Surface

<u>VIN</u>	<u>Body No</u>	<u>In Service</u>	<u>Mileage</u>	<u>Model</u>	<u>Paid Status</u>	<u>Paid Amt</u>
1T88N3B21W1 [REDACTED]	9735889	8/15/1997		8S	Closed	0.00
					Total Paid:	0.00

Description

Claim 102327 sent in for Paint/ rust issue. The handle for the Emergency Door has been sent for VOC review. Claim will be honored for the Flat rate times.



Field Service Report SG020908

12/6/2007

A Subsidiary of **FREIGHTLINER** CORPORATION

Distributor: 39050 ROHRER ENTERPRISES, INC.

Customer: [REDACTED]

Contact: Jennifer Fetterhoff

Report No: SG020908

Report Type: Authorization **Type:** Policy

Area: BODY

Origination: 9/3/2002

VOC:

Group: 0200 PASSENGER DOORS, ROOF HATCHES

Expiration: 12/2/2002

Amount / Unit: 5.43

Component: 0249 Rear Emergency - Latch/Hinge/Prop

Units: 8

Item: 024901 None

Total Amount: 43.44

Failure: W19 Part Cracked/Deformed/Broken

<u>VIN</u>	<u>Body No</u>	<u>In Service</u>	<u>Mileage</u>	<u>Model</u>	<u>Paid Status</u>	<u>Paid Amt</u>
1FDXB80C1SV	[REDACTED] 9621435	11/17/1995		0S	Closed	0.00
1FDXB80C8VV	[REDACTED] 94399			0S	Closed	0.00
1FDXB80CXV	[REDACTED] 94398			0S	Closed	0.00
1GBHG31FXXI	9964109	4/15/1999		MS	Closed	0.00
1HVBBABP4YI	9956711	1/3/2000		0S	Closed	0.00
1HVBBABP6YI	9956747	1/3/2000		0S	Closed	0.00
1HVBBABP7XI	9947924	1/4/1999		0S	Closed	0.00
1HVBBABP9XI	9947957	1/4/1999		0S	Closed	0.00
Total Paid:						0.00

Description

8 units with rear door handles that are deteriorating and breaking off, customer would like this taken care under warranty, coverage for the handle is one year and dealer has agreed to a 50/50 split on d-net of the parts only, handle p/n is 2406-2376 and d-net is 10.85, will allow coverage for 5.43 per unit



Field Service Report SG010821

12/6/2007

A Subsidiary of **FREIGHTLINER**
CORPORATION

Distributor: 99690 PERRY RAND LIMITED

Customer:

Contact: Shirley Buchan

Report No: SG010821

Report Type: Authorization **Type:** Warranty

Area: BODY

Origination: 8/13/2001

VOC:

Group: 0200 PASSENGER DOORS, ROOF
HATCHES

Expiration: 11/11/2001

Amount / Unit: 47.53

Component: 0249 Rear Emergency - Latch/Hinge/Prop

Units: 1

Item: 024901 None

Total Amount: 47.53

Failure: W39 Corrosion, Surface

<u>VIN</u>	<u>Body No</u>	<u>In Service</u>	<u>Mileage</u>	<u>Model</u>	<u>Paid Status</u>	<u>Paid Amt</u>
IHVBBABNXY	9967135	9/1/2000	36,361	0S	Closed	0.00
Total Paid:						0.00

Description

Paint / rust issues. Authorization is requested to repair paint at rear door handle. Estimate and photos attached shows .5 hours labor and materials including HST, all funds are CDN.



Field Service Report SG010780

12/6/2007

A Subsidiary of **FREIGHTLINER**
CORPORATION

Distributor: 99690 PERRY RAND LIMITED

Customer:

Contact: Shirley Buchan

Report No: SG010780

Report Type: Authorization	Type: Warranty	Area: BODY
Origination: 7/20/2001	VOC:	Group: 0200 PASSENGER DOORS, ROOF HATCHES
Expiration: 10/8/2001	Amount / Unit: 118.81	Component: 0249 Rear Emergency - Latch/Hinge/Prop
	Units: 1	Item: 024901 None
	Total Amount: 118.81	Failure: W39 Corrosion, Surface

<u>VIN</u>	<u>Body No</u>	<u>In Service</u>	<u>Mileage</u>	<u>Model</u>	<u>Paid Status</u>	<u>Paid Amt</u>
1HVBBABN7Y [REDACTED]	9967121	9/1/2000	39,200	0S	Closed	0.00
Total Paid:						0.00

Description

Paint / rust issues. Authorization is requested to repair, rear door handle, and rear door hinge strap. Photos and estimate attached of .75 hrs labor and materials including HST, all funds are CDN.



Field Service Report SG060428

12/6/2007

A Subsidiary of **FREIGHTLINER**
CORPORATION

Distributor: 33050 MATTHEWS BUSES, INC.

Customer:

Contact: Sarina

Report No: SG060428

Report Type: Authorization

Type: Policy

Area:

BODY

Origination: 4/24/2006

VOC:

Group:

0200 PASSENGER DOORS, ROOF HATCHES

Expiration: 7/20/2006

Amount/Unit: 0.00

Component:

0249 Rear Emergency - Latch/Hinge/Prop

Units: 20

Item:

024901 None

Total Amount: 0.00

Failure:

V01 Vendor Part Defective

VIN	Body No	In Service	Mileage	Model	Paid Status	Paid Amt
1T7YR4B2841	240582	4/11/2003		YS	Paid	22.32
1T7YR4B2841	346449	11/17/2003		YS	Paid	22.32
1T7YR4B2X41	346827	11/17/2003		YS	Paid	22.32
4UZAAXAK34C	239790	4/10/2003	58,342	PS	Open	0.00
4UZAAXAK54C	239796	4/7/2003	31,754	PS	Open	0.00
4UZAAXAK74C	341563	8/29/2003		PS	Paid	22.32
4UZAAXBV61C	9969105	5/13/2002	76,620	OS	Paid	22.32
4UZAAXCS13C	237176	11/18/2002	30,203	PS	Paid	33.48
4UZAAXCS14C	341453	4/11/2003		PS	Paid	22.32
4UZAAXCS14C	345861	8/27/2003		PS	Paid	22.32
4UZAAXCS34C	345888	9/3/2003		PS	Paid	22.32
4UZAAXCS54C	347634	11/17/2003	34,618	PS	Paid	33.48
4UZAAXCS63C	237439	11/18/2002	36,835	PS	Paid	33.48
4UZAAXCS74C	347662	11/14/2003	40,906	PS	Paid	33.48
4UZAAXCS83C	237133	11/18/2002	40,162	PS	Paid	33.48
4UZAAXCS93C	238169	1/21/2003		PS	Paid	22.32
4UZAAXCS94C	347628	11/17/2003	37,602	PS	Paid	33.48
4UZAAXCSX3C	237159	11/25/2002	41,786	PS	Paid	33.48
4UZAAXCSX4C	346554	12/4/2003		PS	Paid	22.32
4UZAAXDC06C	440903	7/28/2005		PS	Open	0.00
Total Paid:						457.56

Description

emergency door handles are corroding badly, cover replacement handles under policy for both the rear and side doors, 5/16 removed the cost of \$22.32 per unit and approved amount is now \$11.16 per handle as some units have two or three handles to do, added 8 more #'s
 5/18 added 2 more #'s
 5/19 added 1 more #
 5/23 added 2 more #'s



Field Service Report SG040636

12/6/2007

A Subsidiary of **FREIGHTLINER** CORPORATION

Distributor: 99836 THOMAS BUS OF MANITOBA LTD

Customer:

Contact: Dennis

Report No: SG040636

Report Type: Authorization

Type: Warranty

Area: BODY

Origination: 6/29/2004

VOC:

Group: 0200 PASSENGER DOORS, ROOF HATCHES

Expiration: 9/27/2004

Amount / Unit: 534.43

Component: 0249 Rear Emergency - Latch/Hinge/Prop

Units: 1

Item: 024901 None

Total Amount: 534.43

Failure: W49 Paint Adhesion (Insufficient)

<u>VIN</u>	<u>Body No</u>	<u>In Service</u>	<u>Mileage</u>	<u>Model</u>	<u>Paid Status</u>	<u>Paid Amt</u>
IHVBBABMIXI	9963337	6/28/1999	34,724	0S	Closed	0.00
Total Paid:						0.00

Description

paint repairs to various areas on the body, interior rear door handle, exterior rear door handle, portions of the rub rails, pictures on file, estimate received from dealer on 6/28 last day of warranty coverage



Field Service Report SG010776

12/6/2007

A Subsidiary of **FREIGHTLINER**
CORPORATION

Distributor: 99690 PERRY RAND LIMITED

Customer:

Contact: Shirley Buchan

Report No: SG010776

Report Type: Authorization	Type: Warranty	Area:	BODY
Origination: 7/20/2001	VOC:	Group:	0200 PASSENGER DOORS, ROOF HATCHES
Expiration: 10/8/2001	Amount / Unit: 356.43	Component:	0249 Rear Emergency - Latch/Hinge/Prop
	Units: 1	Item:	024901 None
	Total Amount: 356.43	Failure:	W39 Corrosion, Surface

<u>VIN</u>	<u>Body No</u>	<u>In Service</u>	<u>Mileage</u>	<u>Model</u>	<u>Paid Status</u>	<u>Paid Amt</u>
1FDXB80C8WV [REDACTED]	41044	9/1/1997	132,772		Closed	0.00
Total Paid:						0.00

Description

Paint / rust issues. Authorization is requested to repair, rear door handle, upper rubrail left, and hinge at W/C door. Photos and estimate attached of 3.75 hrs labor and materials including HST, all funds are CDN.



Field Service Report SG010775

12/6/2007

A Subsidiary of **FREIGHTLINER**
CORPORATION

Distributor: 99690 PERRY RAND LIMITED

Customer:

Contact: Shirley Buchan

Report No: SG010775

Report Type: Authorization **Type:** Warranty

Area: BODY

Origination: 7/20/2001

VOC:

Group: 0200 PASSENGER DOORS, ROOF HATCHES

Expiration: 10/8/2001

Amount / Unit: 47.53

Component: 0249 Rear Emergency - Latch/Hinge/Prop

Units: 1

Item: 024901 None

Total Amount: 47.53

Failure: W39 Corrosion, Surface

<u>VIN</u>	<u>Body No</u>	<u>In Service</u>	<u>Mileage</u>	<u>Model</u>	<u>Paid Status</u>	<u>Paid Amt</u>
4UZ6CVAAWC	9962109	9/1/1998	71,370		Closed	0.00
					Total Paid:	0.00

Description

Paint / rust issues. Authorization is requested to repair, rear door handle. Photos and estimate attached of 0.5 hrs labor and materials including HST, all funds are CDN.



Field Service Report TA010815

12/6/2007

A Subsidiary of **FREIGHTLINER**
CORPORATION

Distributor: 99626 MACNAB BUS SALES

Customer:

Contact: Kevin Jacobs

Report No: TA010815

Report Type: Authorization

Type: Warranty

Area: BODY

Origination: 8/20/2001

VOC:

Group: 0200 PASSENGER DOORS, ROOF HATCHES

Expiration: 12/18/2001

Amount / Unit: 19.57

Component: 0249 Rear Emergency - Latch/Hinge/Prop

Units: 26

Item: 024901 None

Total Amount: 508.82

Failure: Q01 Various

<u>VIN</u>	<u>Body No</u>	<u>In Service</u>	<u>Mileage</u>	<u>Model</u>	<u>Paid Status</u>	<u>Paid Amt</u>
1GDHG31F4X1	9963696	9/7/1999		MS	Paid	21.73
1GDHG31F8X1	9963698	9/7/1999		MS	Paid	21.73
1HVBBAAP3W	78269	8/9/2000			Open	0.00
1HVBBAAP8X	73750				Open	0.00
1HVBBABM2X	9965492	11/20/1999		OS	Paid	21.72
1HVBBABP0X	9965706	9/5/2000		OS	Open	0.00
1HVBBABP0X	9965499	9/5/2000		OS	Open	0.00
1HVBBABP1X	9964528	9/7/1999		OS	Paid	21.72
1HVBBABP1X	9965714	9/5/2000		OS	Paid	21.72
1HVBBABP1X	9963199	12/8/1998		OS	Open	0.00
1HVBBABP2X	9963109	9/9/1999		OS	Open	0.00
1HVBBABP2X	9963118	9/7/1999		OS	Paid	21.72
1HVBBABP3X	9964531	9/2/1999		OS	Paid	21.72
1HVBBABP3X	9965697	9/5/2000		OS	Paid	21.72
1HVBBABP3X	9965534	9/5/2000		OS	Paid	21.72
1HVBBABP4X	9963119	9/7/1999		OS	Open	0.00
1HVBBABP5X	9965536	9/5/2000		OS	Open	0.00
1HVBBABP6X	9964533	9/7/1999		OS	Paid	21.72
1HVBBABP7X	9965556	9/5/2000		OS	Paid	21.72
1HVBBABP8X	9964535	9/7/1999		OS	Paid	21.72
1HVBBABP9X	9965717	9/5/2000		OS	Paid	21.72
1HVBBABP9X	9965566	9/5/2000		OS	Open	0.00
1HVBBABPOX	9963183	9/9/1999		OS	Paid	21.72
1HVBBABPXX	9965635	9/5/2000		OS	Paid	21.72
1HVBBABPXX	9964536	9/7/1999		OS	Paid	21.72
XXXX	9964526				Open	0.00
Total Paid:						347.54

Description

Customer was complaining about several failures on the rear door handles on their buses. The handles corrode and then break. Authorized Macnab to replace the handles on the affected units. Cost is \$19.57 CDN + tax



Field Service Report CB000218

12/6/2007

A Subsidiary of **FREIGHTLINER** CORPORATION

Distributor: 50003 NELSON'S BUS SERVICE, INC.

Customer:

Contact:

Report No: CB000218

Report Type: **Type:** **Area:** BODY

Origination: 2/15/2000 **VOC:** **Group:** 0200 PASSENGER DOORS, ROOF HATCHES

Expiration: 4/22/2000 **Amount / Unit:** 8.56 **Component:** 0249 Rear Emergency - Latch/Hinge/Prop

Units: 40 **Item:** 024901 None

Total Amount: 342.40 **Failure:** W39 Corrosion, Surface

<u>VIN</u>	<u>Body No</u>	<u>In Service</u>	<u>Mileage</u>	<u>Model</u>	<u>Paid Status</u>	<u>Paid Amt</u>
1T88P3B10V1	9733766	7/22/1997		8S	Expired	0.00
1T88P3B10V1	9734018	7/29/1997		8S	Expired	0.00
1T88P3B10V1	9734006	7/31/1997		8S	Expired	0.00
1T88P3B11V1	9731341	4/4/1997		8S	Expired	0.00
1T88P3B11V1	9733866	7/15/1997		8S	Expired	0.00
1T88P3B11V1	9733961	7/29/1997		8S	Expired	0.00
1T88P3B12V1	9733922	7/22/1997		8S	Expired	0.00
1T88P3B12V1	9733991	7/29/1997		8S	Expired	0.00
1T88P3B12V1	9734024	7/31/1997		8S	Expired	0.00
1T88P3B13V1	9733883	7/15/1997		8S	Expired	0.00
1T88P3B13V1	9733752	7/15/1997		8S	Expired	0.00
1T88P3B13V1	9733794	7/29/1997		8S	Expired	0.00
1T88P3B14V1	9733928	7/22/1997		8S	Expired	0.00
1T88P3B14V1	9734030	7/31/1997		8S	Expired	0.00
1T88P3B15V1	9734013	7/15/1997		8S	Expired	0.00
1T88P3B15V1	9733905	7/15/1997		8S	Expired	0.00
1T88P3B15V1	9733970	7/29/1997		8S	Expired	0.00
1T88P3B16V1	9731282	4/4/1997		8S	Expired	0.00
1T88P3B16V1	9733934	7/22/1997		8S	Expired	0.00
1T88P3B16V1	9733946	7/22/1997		8S	Expired	0.00
1T88P3B16V1	9734033	7/31/1997		8S	Expired	0.00
1T88P3B17V1	9733892	7/15/1997		8S	Expired	0.00
1T88P3B17V1	9733749	7/15/1997		8S	Expired	0.00
1T88P3B17V1	9733973	7/29/1997		8S	Expired	0.00
1T88P3B18V1	9731303	4/4/1997		8S	Expired	0.00
1T88P3B18V1	9733860	7/15/1997		8S	Expired	0.00
1T88P3B18V1	9733937	7/22/1997		8S	Expired	0.00
1T88P3B18V1	9733788	7/22/1997		8S	Expired	0.00
1T88P3B18V1	9734082	7/31/1997		8S	Expired	0.00
1T88P3B19V1	9733910	7/15/1997		8S	Expired	0.00
1T88P3B19V1	9733982	7/29/1997		8S	Expired	0.00
1T88P3B19V1	9733997	7/29/1997		8S	Expired	0.00
1T88P3B1XV1	9731322	4/4/1997		8S	Expired	0.00
1T88P3B1XV1	9733722	7/29/1997		8S	Expired	0.00
1T88P3B1XV1	9733782	7/22/1997		8S	Expired	0.00
1T88P3B1XV1	9733955	7/22/1997		8S	Expired	0.00

PE07-054

TBB Emergency Exit Door Handle

Attachment 2

**Response to Question 9
Copies of documents related to actions**

GetInfo ECR

Name: Creator: Created:

A) REQUEST SECTION

Project: Cost Affected?
 Priority Code:

*Part # *Drawing # 9-Step # Date Initiated

*First Time Right Design Category:

*Manager: *Submitter:

*Detailed Description

*Rationale

*Impact to Tooling, Fixtures, Processes or Cost

B) PROCESS SECTION

*Team Leader: Date Transferred: Original Target Date: Ready for Review Date:

Person Assigned to: Date Assigned: Eng Documentation Acceptance Date:

Purchaser: Design Frozen: Actual Completion Date: Design Review Level:

Fab Grade: Logist Grade: Manuf Grade: MIG Grade: Purch Grade: Quality Grade:

Failed Check Count:

Response

C) CRUCIAL SYSTEM DATA

Owner

Show All?

Checked out?

Selected?

Check Out User/Vault

Rev

Current Life Cycle

Step

Detail Design Review List

CR Complete Pass Notify List

D) MINOR SYSTEM DATA

Database Name

Last Updated By

Last Modified

E) TEMPORARY DATA

Closure

Life Cycle State

Technical Disposition

Disposition

Status

F) FLITE DATA

FLITE #

FLITE SAVINGS

EST HRS

ACT HRS

Index Language

GetInfo ECR

Name: ECR 2183, A, 1 Creator: JZucker Created: 04/27/2006 08:51:59:730

A) REQUEST SECTION

Project: None Cost Affected? NO CHANGE
 Priority Code: Normal

*Part #: 64008802 *Drawing #: 64008802 9-Step #: Date Initiated: 04/27/2006
 CR B2.65 Minimum School Non School
 E3 MAX
 *First Time Right Design Category: None of the above.

*Manager: JZucker *Submitter: JZucker

*Detailed Description

Replace 64008802 with a more corrosion resistant handle. ECR_2182 is the same ECR for non C2 products.

*Rationale

CURRENT HANDLE IS EXPERIENCING GALVANIC CORROSION IN NY.

*Impact to Tooling, Fixtures, Processes or Cost

NO IMPACT ON TOOLING OR FIXTURES. COST IMPACT UNKNOWN AT THIS TIME.

B) PROCESS SECTION

*Team Leader	Date Transferred	Original Target Date	Ready for Review Date
KBlinn	05/30/2006	08/04/2006	07/13/2006

Person Assigned to	Date Assigned	Eng Documentation Acceptance Date
JBayne	05/30/2006	07/18/2006

Purchaser	Design Frozen	Actual Completion Date	Design Review Level
		04/20/2007	No Review

Fab Grade Logist Grade Manuf Grade MIG Grade Purch Grade Quality Grade

Failed Check Count:

Response

C) CRUCIAL SYSTEM DATA

Owner: Released Vault

Startups?

Startups?

Superseded?

Check Out User/Vault:

Rev:

Current Life Cycle:

Step:

Detail Design Review List

- DTrexler
- JZucker

CR Complete Pass Notify List

D) MINOR SYSTEM DATA

Database Name: User DB

Last Updated By: GCozum

Last Modified: 04/20/2007 11:02:27:742

E) TEMPORARY DATA

Closure: Open

Life Cycle State: Executing

Technical Disposition: None

Disposition: None

Status: In Progress

F) FLITE DATA

FLITE #:

FLITE SAVINGS:

EST HRS: 16

ACT HRS:

Index Language:

Close

Print...

Help

GetInfo ECR

Name: ECR 3856, A, 1 Creator: JZucker Created: 04/30/2007 11:58:23:498

A) REQUEST SECTION

Project: None Cost Affected? DECREASE
 Priority Code: Normal

*Part #: 64008802 *Drawing #: 64008802 9-Step #: Date Initiated: 04/30/2007

*First Time Right Design Category: None of the above.

C2 2005 2006
 2007 2008 2009
 2010

*Manager: DTrexler *Submitter: JZucker

*Detailed Description

Replace door handle 64008802 with new handle consisting of glass filled nylon. New K alloy handle unavailable at a reasonable cost. Design to be done outside.
 Separate ECR's written for replacing Handle in assemblies for both Transit and C2 Products.
 Ref ECR 4074, ECR 4075 & ECR 4082.

*Rationale

IMPROVE QUALITY AND LOWER COST.

*Impact to Tooling, Fixtures, Processes or Cost

NEW TOOL WILL BE BOUGHT. DESIGN TO BE DONE OUTSIDE.

B) PROCESS SECTION

*Team Leader	Date Transferred	Original Target Date	Ready for Review Date
JZucker	11/26/2007	12/14/2007	12/13/2007

Person Assigned to	Date Assigned	Eng Documentation Acceptance Date
JZucker	12/10/2007	01/16/2008

Purchaser	Design Frozen	Actual Completion Date	Design Review Level
		01/22/2008	No Review

Fab Grade Logist Grade Manuf Grade MIG Grade Purch Grade Quality Grade

Failed Check Count:

Response

10/24/07 - CANCELLED. See ECR_4433 and CR_D5016 instead. DKT.
 11/20/07 - REACTIVATED DKT.

C) CRUCIAL SYSTEM DATA

Owner: Released Vault

Started?

Check Out User/Vault

Current Life Cycle

Rev

Step

Detail Design Review List

CMoore	▲
CSink	▲
Dlassiter	▼

CR Complete Pass Notify List

	▲
	▼

D) MINOR SYSTEM DATA

Database Name: User DB

Last Updated By: GCorum

Last Modified: 01/22/2008 13:25:35:895

E) TEMPORARY DATA

Closure: Open

Life Cycle State: Executing

Technical Disposition: None

Disposition: None

Status: In Progress

F) FLITE DATA

FLITE #

FLITE SAVINGS

EST HRS

ACT HRS

Index Language: English

Close

Print...

Help

GetInfo ECR

Name: Creator: Created:

A) REQUEST SECTION

Project: Cost Affected?
 Priority Code:

*Part # *Drawing # 9-Step # Date Initiated
 CC ESC5 #xant/line
 Schen1 Tom 5/6/07
 FE #6X

*First Time Right Design Category:

*Manager: *Submitter:

***Detailed Description**

Replace door handle 64008802 with new composite handle consisting of glass filled nylon with a steel insert frame. New K alloy handle unavailable at a reasonable cost. Design will be done outside. ECR 3856 is non C2 ECR.

***Rationale**

INCREASE QUALITY AND LOWER COST.

***Impact to Tooling, Fixtures, Processes or Cost**

NEW TOOLING WILL NEED TO BE BOUGHT.

B) PROCESS SECTION

*Team Leader	Date Transferred	Original Target Date	Ready for Review Date
DTrexler	12/10/2007	05/18/2007	12/12/2007

Person Assigned to	Date Assigned	Eng Documentation Acceptance Date
jZucker	12/10/2007	12/21/2007

Purchaser	Design Frozen	Actual Completion Date	Design Review Level
		01/22/2008	No Review

Fab Grade: Logist Grade: Manuf Grade: MIG Grade: Purch Grade: Quality Grade:

Failed Check Count:

Response

Previous ECRs were 2182 and 2183.
 10/24/07 - CANCELLED. See ECR 4433 and CR D5016 instead.

C) CRUCIAL SYSTEM DATA



ENGINEERING RELEASE NOTICE

A Subsidiary of **FREIGHTLINER**
CORPORATION

PART STATUS CODE

A Inactivate w/o Replacement	L Revision of Drwg, Asm, Etc...
B Manufacturing Change	M Obsolete
C Purchased	N Delete From Std Per Opt.
D Pattern/Fixture - New/Change	O Prev. Adv. Released
E Tooling - New/Change	P Chart Change
F Service	Q New Ref, Install, Chart, etc...
G New Part	R Reference Drwg, Asm, etc...
H Inactivate	S PPAP Required
I Reactivate	T PPAP Approved
J Increase Usage	U PPAP Waived
K Decrease Usage	

PPAP Levels

1 Level 1
2 Level 2
3 Level 3
4 Level 4
5 Level 5

STOCK DISPOSITION CODES

A Use, No Reorder
B Rework
C Don't Use, Dispose Of Best Way
D Don't Use Prior to PPAP Approval

USAGE TYPE CODES

STD Standard
STD-ASM Standard Assembly
ASM-CMPT Component of assembly
OPT-ASM Optional Assembly
OPT Optional
REF Reference

PLANT CODES

1 Main Body Assembly
2 Fairfield
5 Chassis Assembly
9 Minotour Assembly
T CL100 Assembly
2A B2 Assembly

PART CODES

A Running Change
B New Option
C CON Pending

ERN#: **ECR_3856-1**

ERN CLASS: **Regular**
ERN AUTHOR: **JAMES ZUCKER**
REF. NUMBER: **ECR_3856**

RELEASED DATE: **7/24/2007**

CHK'D/RELEASED BY: **JU**
BODY/CHASSIS INTERFACE:

REASON FOR RELEASE

RELEASE NEW DOOR HANDLE TO PLACE OLD ALUMINUM HANDLE, DUE TO PRESENCE OF MAGNESIUM CHLORIDE ON THE ROADS DURING THE WINTER. ECR'S 4074, 4075, AND 4082 WILL UPDATE THE INSTALLATION DRAWINGS. ECR_3857 WILL UPDATE THE C2.

Status Codes	Part Number	Description	Drawing	Rev	Usage Information			New Parts Only				
					Usage Type	Model / Opt# / Asm #	Qty / UOM	SDC	Plant Code	Shop Address	Appr. Initial	Part Code
M	64008802	DOOR HANDLE, EMERGENCY DOOR	C	D	Std	REPLACED BY 138158	EA	C				C
CG	138158	HANDLE, EMERGENCY AND LIFT DOOR, EXTERIOR	B	A	Std	REPLACES 64008802	EA					C

Net Change Report

ECR# **ECR_3857** ECR Author **JZucker**

Eng Review Complete Date **07/26/2007**

Description Replace door handle 64008802 with new composite handle cons

Drawing	Rev	Description
104695	D	EXTERIOR DOOR HANDLE LEVEL 1
64008981	B	DOOR HANDLE ASSEMBLY, EMERGENCY DOOR

Part	Rev	Drawing	Make/Buy	Type	Status	31	32	33	Description
SubParts			Qty	Net Chg	UOM	Rev	Make/Buy		
104695	E	104695	t1IndMkOther	Level 1	Production	014	005	023	EXTERIOR DOOR HANDLE LEVEL 1
Add - 138158			1		PsmEa	A	t1IndMkOther		HANDLE, EMERGENCY AND LIFT DOOR, EXTERIOR
Add - 148087			1		PsmEa	A	t1IndMkOther		SPRING PIN, .125 X 1.375, STRAIGHT SLOTTED, 420 STAINLESS STEEL
Del - 27273936			1		PsmEa	B	t1IndMkOther		SPRING PIN, .125 X 1"
Del - 64008981			1		PsmEa	B	t1IndMkOther		DOOR HANDLE ASSEMBLY, EMERGENCY DOOR
69004235			1		PsmEa	A	t1IndMkOther		WASHER, REAR EMERGENCY DOOR
117147	D		PsmIndMake	Assembly	Production	002	046	021	REAR EMERGENCY DR. COMPLETE ASM. LH PAN WO/VANDALOCK, 1PT.
101438			1		PsmEa	D	PsmIndMake		REAR EMERGENCY STAMPED DOOR ASSY LH PAN
100426			0.04		PsmGl	C	PsmIndMake		ADHESIVE CHART, METHYL METHACRYLATE, TWO PART
100427			0.004		PsmGl	C	PsmIndMake		ACTIVATOR CHART, METHYL METHACRYLATE, TWO PART
Del - 100432			30		PsmEa	A	PsmIndMake		RIVET, SELF PIERCING, 4.8MM-5.15MM X 7MM-7.5MM LG
101436			1		PsmEa	B	PsmIndMake		FRONT STAMPING, REAR EMERGENCY DOOR, LH PAN
101437			1		PsmEa	B	PsmIndMake		REAR STAMPNG, REAR EMERGENCY DOOR, LH PAN PLACEMENT
112575			1		PsmEa	F	PsmIndMake		REINFORCEMENT PLATE, PROP-ROD
114016			2		PsmEa	D	PsmIndMake		REINFORCEMENT ASSEMBLY, HINGE, 8" HINGE
114013			1		PsmEa	D	PsmIndMake		REINFORCEMENT PLATE, HINGE, 8" HINGE, C2
29940006			5		PsmEa	B	PsmIndMake		PREVAILING TORQUE LOCKNUT, 1/4-20, HEX, GRADE B, STEEL, BRIGHT STEEL
Add - 125533			30		PsmEa	A	PsmIndMake		CHART,RIVET, SELF PIERCING, COUNTER SUNK
121533			1		PsmEa	A	t1IndBuyCmpt		RIVET, SELF PIERCING, HENROB 5.15MM DIA X 6.50MM LG
125526			1		PsmEa	A	t1IndBuyCmpt		RIVET, SELF PIERCING, TEXTRON 4.8MM X 7MM, COUNTER SUNK
69005060			22		PsmEa	E	PsmIndMake		RIVET-3/16 DIA BREAK MANDREL BLIND RIVET, PROT. HEAD, S.S.

Part	Rev	Drawing	Make/Buy	Type	Status	31	32	33	Description
SubParts			Qty	Net Chg	UOM	Rev	Make/Buy		
104703			1		PsmEa	D	PsmIndMake		REAR EMERGENCY DOOR HINGE LEVEL 1
Del - 103419			10		PsmEa	B	t1IndMkOther		THREADED INSERT, BLIND, 1/4-20, GRIP RANGE .165-.260
113784			1		PsmEa	D	t1IndMkOther		HINGE ASSEMBLY, BOTTOM, REAR / RH SIDE, 8" LONG, C2
113815			1		PsmEa	D	t1IndMkOther		HINGE ASSEMBLY, TOP, REAR / RH SIDE, 8" LONG, C2
Add - 122266			10		PsmEa	A	t1IndMkOther		SCREW, 1/4-20 X 1.00, FLAT HEAD, TAPTITE
115441			1		PsmEa	B	PsmIndMake		INTERIOR HANDLE ASSEMBLY, RECESS PAN, REAR EMERGENCY DOOR, C2
64000064			1		PsmEa	B	PsmIndMake		STEM, EMERGENCY DOOR HANDLE
64007430			1		PsmEa	A	PsmIndMake		INTERIOR HANDLE, REAR EMERGENCY DOOR, 1.13" OFFSET FLAT BAR
117857			1		PsmEa	D	PsmIndMake		REAR EMERGENCY DOOR LEAF LEVEL 1, 1PT LATCH
117852			1		PsmEa	J	t1IndMkOther		REAR EMERGENCY DOOR ASSEMBLY, 3 POINT LATCH
112575			1		PsmEa	F	PsmIndMake		REINFORCEMENT PLATE, PROP-ROD
116626			1		PsmEa	B	PsmIndMake		OUTER STAMPING, REAR EMERGENCY DOOR, C2
116627			1		PsmEa	D	PsmIndMake		INNER STAMPING, REAR EMERGENCY DOOR, C2
117581			1		PsmEa	D	PsmIndMake		LATCH PLATE
120949			2		PsmEa	C	PsmIndMake		REINFORCEMENT PLATE, 3 POINT LATCH, C2
Add - 121198			0.0001		PsmGl	C	PsmIndMake		ACTIVATOR, METHYL METHYACRYLATE, FAST, ITW PLEXUS MA1115, TWO PART
Add - 121199			0.001		PsmGl	C	PsmIndMake		ADHESIVE, METHYL METHYACRYLATE, ITW PLEXUS MA1115 GB, TWO PART
123569			2		PsmEa	B	PsmIndMake		REINFORCEMENT PLATE, 8" HINGE
Add - 125533			20		PsmEa	B	PsmIndMake		CHART,RIVET, SELF PIERCING, COUNTER SUNK
121533			1		PsmEa	C	t1IndBuyCmpt		RIVET, SELF PIERCING, HENROB 5.15MM DIA X 6.50MM LG
125526			1		PsmEa	A	t1IndBuyCmpt		RIVET, SELF PIERCING, TEXTRON 4.8MM X 7MM, COUNTER SUNK
125772			8		PsmEa	B	PsmIndMake		SPACER,CHANNEL, SIDE AND EMERGENCY DOOR
Del - 67000750			0.001		PsmGl	A	PsmIndMake		ADHESIVE, METHYL METHACRYLATE, MA1115/MA1130, 50 GAL. DRUM
Del - 67000751			0.0001		PsmGl	A	PsmIndMake		ACTIVATOR, METHYL METHACRYLATE, MA1115, 5 GAL. PAIL
122266			10		PsmEa	A	t1IndMkOther		SCREW, 1/4-20 X 1.00, FLAT HEAD, TAPTITE
Add - 136966			1		PsmEa	C	t1IndMkOther		REAR EMERGENCY DOOR ASSEMBLY, 1 POINT LATCH
112575			1		PsmEa	G	PsmIndMake		REINFORCEMENT PLATE, PROP-ROD
116626			1		PsmEa	B	PsmIndMake		OUTER STAMPING, REAR EMERGENCY DOOR, C2

Part	Rev	Drawing	Make/Buy	Type	Status	31	32	33	Description
SubParts			Qty	Net Chg	UOM	Rev	Make/Buy		
		116627	1		PsmEa	D	PsmIndMake		INNER STAMPING, REAR EMERGENCY DOOR, C2
		117581	1		PsmEa	D	PsmIndMake		LATCH PLATE
		121198	0.00012	+0.00002	PsmGl	D	PsmIndMake		ACTIVATOR, METHYL METHYACRYLATE, FAST, ITW PLEXUS MA1115, TWO PART
		121199	0.0012	+0.0002	PsmGl	C	PsmIndMake		ADHESIVE, METHYL METHYACRYLATE, ITW PLEXUS MA1115 GB, TWO PART
		123569	2		PsmEa	B	PsmIndMake		REINFORCEMENT PLATE, 8" HINGE
		125533	18		PsmEa	B	PsmIndMake		CHART,RIVET, SELF PIERCING, COUNTER SUNK
		121533	1		PsmEa	C	t1IndBuyCmpt		RIVET, SELF PIERCING, HENROB 5.15MM DIA X 6.50MM LG
		125526	1		PsmEa	A	t1IndBuyCmpt		RIVET, SELF PIERCING, TEXTRON 4.8MM X 7MM, COUNTER SUNK
		125772	8		PsmEa	B	PsmIndMake		SPACER,CHANNEL, SIDE AND EMERGENCY DOOR
118372			1		PsmEa	F	PsmIndMake		DOOR LATCH ASSEMBLY, RHS, EMERGENCY DOOR
		117542	3		PsmEa	E	PsmIndMake		COLLAR, 3/16, STANDARD FLANGE
		118341	1		PsmEa	D	PsmIndMake		MOUNTING PLATE, LATCH, RHS, EMERGENCY DOOR
		130160	3		PsmEa	B	PsmIndMake		PIN, HUCK, 3/16, 0.312-1.250 GRIP
		24092365	1		PsmEa	C	PsmIndMake		BOLT, LATCH
		24093365	1		PsmEa	E	PsmIndMake		GEAR-SPUR, - SPUR, EMERGENCY DOOR
		64009025	1		PsmEa	E	PsmIndMake		CARRIER, DOOR LATCH LIFT/EMERGENCY DOOR, W/VANDALOCK
		64009196	2		PsmEa	E	PsmIndMake		GASKET, DOOR LATCH LIFT/EMERGENCY DOOR W/VANDLELOCK
		64009198	1		PsmEa	E	PsmIndMake		COVER, LATCH CASE
		64010201	1		PsmEa	B	PsmIndMake		DOOR LATCH SPRING, LIFT/EMERGENCY DOOR, W/VANDALOCK, LEFT
		69005005	2		PsmEa	E	PsmIndMake		RIVET, 3/16 DIA, BLIND
		69005069	1		PsmEa	B	PsmIndMake		RIVET, 3/16 DIA, PROT. HEAD STEEL BODY
		138158	1		PsmEa	A	PsmIndMake		HANDLE, EMERGENCY AND LIFT DOOR, EXTERIOR
		Add - 148087	1		PsmEa	A	PsmIndMake		SPRING PIN, .125 X 1.375, STRAIGHT SLOTTED, 420 STAINLESS STEEL
		Del - 27273936	1		PsmEa	C	PsmIndMake		SPRING PIN, .125 X 1"
		Del - 64008981	1		PsmEa	B	PsmIndMake		DOOR HANDLE ASSEMBLY, EMERGENCY DOOR
117158	F	117158	PsmIndMake	Assembly	Production	002	046	021	SIDE EMER DOOR, COMPLETE ASS. 40" L/S RECESSED PAN W/VANDALOCK, 1P1.
		101730	1		PsmEa	B	PsmIndMake		SIDE EMERGENCY DOOR, STAMPED ASSEMBLY, 40" RH RECESSED PAN
		100426	0.035		PsmGl	A	PsmIndMake		ADHESIVE CHART, METHYL METHACRYLATE, TWO PART

Part	Rev	Drawing	Make/Buy	Type	Status	31	32	33	Description
SubParts			Qty	Net Chg	UOM	Rev	Make/Buy		
		100427	0.004		PsmGl	A	PsmIndMake		ACTIVATOR CHART, METHYL METHACRYLATE, TWO PART
		100432	20		PsmEa	A	PsmIndMake		RIVET, SELF PIERCING, 4.8MM-5.15MM X 7MM-7.5MM LG
		101728	1		PsmEa	A	PsmIndMake		40" RH SIDE EMERGENCY DOOR, FRONT STAMPING
		101729	1		PsmEa	A	PsmIndMake		40" RH SIDE EMERGENCY DOOR, REAR STAMPING
		112575	1		PsmEa	A	PsmIndMake		REINFORCEMENT PLATE, PROP-ROD
		114016	2		PsmEa	A	PsmIndMake		REINFORCEMENT ASSEMBLY, HINGE, 8" HINGE
		114013	1		PsmEa	A	PsmIndMake		REINFORCEMENT PLATE, HINGE, 8" HINGE, C2
		29940006	5		PsmEa	A	PsmIndMake		PREVAILING TORQUE LOCKNUT, 1/4-20, HEX, GRADE B, STEEL, BRIGHT STEEL
		69005060	23		PsmEa	C	PsmIndMake		RIVET-3/16 DIA BREAK MANDREL BLIND RIVET, PROT. HEAD, S.S.
104504			1		PsmEa	B	PsmIndMake		DOOR LATCH ASSY RH
		103851	1		PsmEa	B	PsmIndMake		LATCH SUPPORT, LATCH CARRIER, RH
		Add - 24034365	1		PsmEa	A	PsmIndMake		DOOR LATCH SPRING, REAR AND SIDE LATCH
		24092365	1		PsmEa	C	PsmIndMake		BOLT, LATCH
		24093365	1		PsmEa	E	PsmIndMake		GEAR-SPUR, - SPUR, EMERGENCY DOOR
		Del - 27271166	4		PsmEa	A	PsmIndMake		KEEP NUT, 10-24
		Add - 64005445	1		PsmEa	A	PsmIndMake		CARRIER, DOOR LATCH, NYLON-GP, BLACK, LIFT
		Add - 64005469	1		PsmEa	A	PsmIndMake		SPACER, SPRING, FOOR LATCH, 14GA. X 1"X 2"
		Add - 64007063	2		PsmEa	A	PsmIndMake		GASKET, DOOR LATCH, LONG THROW KNETUCKY
		Del - 64009025	1		PsmEa	A	PsmIndMake		CARRIER, DOOR LATCH LIFT/EMERGENCY DOOR, W/VANDALOCK
		Del - 64009029	1		PsmEa	A	PsmIndMake		DOOR LATCH SPRING
		Del - 64009196	2		PsmEa	A	PsmIndMake		GASKET, DOOR LATCH LIFT/EMERGENCY DOOR W/VANDLELOCK
		Del - 64009198	1		PsmEa	A	PsmIndMake		COVER, LATCH CASE
		Add - 67000195	1		PsmEa	A	PsmIndMake		4357 BULK LOAD FROM CMS
		Del - 69002268	4		PsmEa	A	PsmIndMake		CAP SCREW, BUTTON HEAD, #10-24, 1.25 LONG
		69005005	2		PsmEa	E	PsmIndMake		RIVET, 3/16 DIA, BLIND
		Add - 69005069	7		PsmEa	A	PsmIndMake		RIVET, 3/16 DIA, PROT. HEAD STEEL BODY
104722			1		PsmEa	F	PsmIndMake		HINGE LEVEL 1, 8" LONG, RIGHT SIDE EMERGENCY DOOR, C2
		113784	1		PsmEa	D	t1IndMkOther		HINGE ASSEMBLY, BOTTOM, REAR / RH SIDE, 8" LONG, C2
		Del - 113784	1		PsmEa	D	t1IndMkOther		HINGE ASSEMBLY, BOTTOM, REAR / RH SIDE, 8" LONG, C2
		113815	1		PsmEa	D	t1IndMkOther		HINGE ASSEMBLY, TOP, REAR / RH SIDE, 8" LONG, C2
		113815	1		PsmEa	D	t1IndMkOther		HINGE ASSEMBLY, TOP, REAR / RH SIDE, 8" LONG, C2
		122266	10		PsmEa	A	t1IndMkOther		SCREW, 1/4-20 X 1.00, FLAT HEAD, TAPTITE

Part	Rev	Drawing	Make/Buy	Type	Status	31	32	33	Description
SubParts			Qty	Net Chg	UOM	Rev	Make/Buy		
117420			1		PsmEa	F	PsmIndMake		SIDE EMERGENCY DOOR RECESS LEVEL 1, 40" DOOR, LEFT SIDE
117224			1		PsmEa	J	t1IndMkOther		SIDE EMERGENCY DOOR ASSEMBLY, RECESS, LHS, 40"
112575			1		PsmEa	F	PsmIndMake		REINFORCEMENT PLATE, PROP-ROD
116625			1		PsmEa	C	PsmIndMake		INNER STAMPING, SIDE EMERGENCY DOOR, LHS, 40", C2
117581			1		PsmEa	C	PsmIndMake		LATCH PLATE
120949			1		PsmEa	C	PsmIndMake		REINFORCEMENT PLATE, 3 POINT LATCH, C2
121459			2		PsmEa	A	PsmIndMake		DOOR REINFORCEMENT CHANNEL, 40 INCH DOOR
Add - 121533			15		PsmEa	A	PsmIndMake		RIVET, SELF PIERCING, HENROB 5.15MM DIA X 6.50MM LG
121712			1		PsmEa	A	PsmIndMake		OUTER STAMPING ASSEMBLY, SIDE EMERGENCY DOOR, RECESS, LHS, 40", C2
116624			1		PsmEa	C	PsmIndMake		OUTER STAMPING, SIDE EMERGENCY DOOR, RECESS, LHS, 40", C2
24046368			1		PsmEa	A	PsmIndMake		RECESSED PAN, EMERGENCY DOOR, STEEL
123569			2		PsmEa	A	PsmIndMake		REINFORCEMENT PLATE, 8" HINGE
Del - 125533			30		PsmEa	A	PsmIndMake		CHART,RIVET, SELF PIERCING, COUNTER SUNK
125772			11		PsmEa	A	PsmIndMake		SPACER,CHANNEL, SIDE AND EMERGENCY DOOR
67000750			0.0011	-0.0579	PsmGl	A	PsmIndMake		ADHESIVE, METHYL METHACRYLATE, MA1115/MA1130, 50 GAL. DRUM
67000751			0.0001	-0.0059	PsmGl	A	PsmIndMake		ACTIVATOR, METHYL METHACRYLATE, MA1115, 5 GAL. PAIL
122266			10		PsmEa	A	t1IndMkOther		SCREW, 1/4-20 X 1.00, FLAT HEAD, TAPTITE
118292			1		PsmEa	C	PsmIndMake		DOOR LATCH LEVEL 1, SINGLE POINT, LHS, EMERGENCY DOOR
Del - 118373			1		PsmEa	B	t1IndMkOther		DOOR LATCH ASSEMBLY, LHS, SIDE EMERGENCY DOOR, LC
Add - 137413			1		PsmEa	A	t1IndMkOther		DOOR LATCH ASSEMBLY, LHS, EMERGENCY DOOR, LC
148083			1		PsmEa	A	PsmIndMake		MOUNTING PLATE, LATCH, LHS, SIDE EMERGENCY DOOR
24034365			1		PsmEa	A	PsmIndMake		DOOR LATCH SPRING, REAR AND SIDE LATCH
24092365			1		PsmEa	C	PsmIndMake		BOLT, LATCH
24093365			1		PsmEa	E	PsmIndMake		GEAR-SPUR, - SPUR, EMERGENCY DOOR
64005445			1		PsmEa	A	PsmIndMake		CARRIER, DOOR LATCH, NYLON-GP, BLACK, LIFT
64005469			1		PsmEa	A	PsmIndMake		SPACER, SPRING, FOOR LATCH, 14GA. X 1"X 2"
64007063			2		PsmEa	A	PsmIndMake		GASKET, DOOR LATCH, LONG THROW KNETUCKY
67000195			1		PsmEa	A	PsmIndMake		4357 BULK LOAD FROM CMS
69005005			2		PsmEa	E	PsmIndMake		RIVET, 3/16 DIA, BLIND
69005069			7		PsmEa	B	PsmIndMake		RIVET, 3/16 DIA, PROT. HEAD STEEL BODY

Part	Rev	Drawing	Make/Buy	Type	Status	31	32	33	Description
SubParts			Qty	Net Chg	UOM	Rev	Make/Buy		
			2		PsmEa	J	t1IndMkOther		NO. 12 X .63 L PAN HEAD, TAPPING SCREW
			4		PsmEa	E	t1IndMkOther		RIVET, 3/16 DIA, BLIND
			1		PsmEa	B	PsmIndMake		INTERIOR HANDLE ASSEMBLY, RECESS DOOR, BLACK, LEFT, SIDE EMERGENCY/LIFT DOOR, C2
			1		PsmEa	B	PsmIndMake		INTERIOR HANDLE, SIDE EMERGENCY/LIFT DOOR, C2
			1		PsmEa	B	PsmIndMake		HANDLE STEM, SIDE EMERGENCY/LIFT DOOR, C2
			1		PsmEa	A	PsmIndMake		HANDLE STOP, INTERIOR HANDLE, REAR EMERGENCY DOOR
			1		PsmEa	A	PsmIndMake		HANDLE, EMERGENCY AND LIFT DOOR, EXTERIOR
			1		PsmEa	A	PsmIndMake		SPRING PIN, .125 X 1.375, STRAIGHT SLOTTED, 420 STAINLESS STEEL
			1		PsmEa	B	PsmIndMake		SPRING PIN, .125 X 1"
			1		PsmEa	C	PsmIndMake		INTERIOR HANDLE
			1		PsmEa	B	PsmIndMake		DOOR HANDLE ASSEMBLY, EMERGENCY DOOR
			1		PsmEa	A	PsmIndMake		HANDLE KEEPER, SIDE EMERGENCY DOOR
			1		PsmEa	B	PsmIndMake		HANDLE KEEPER, SIDE EMERGENCY DOOR
			3		PsmEa	J	PsmIndMake		NO. 12 X .63 L PAN HEAD, TAPPING SCREW
117335	E	115743		Assembly	Production	002	046	021	REAR EMER DR.COMPLETE ASM. 3PT. LOCK.W/O VANDALOCK
			1		PsmEa	E	PsmIndMake		EXTERIOR DOOR HANDLE LEVEL 1
			1		PsmEa	A	t1IndMkOther		HANDLE, EMERGENCY AND LIFT DOOR, EXTERIOR
			1		PsmEa	A	t1IndMkOther		SPRING PIN, .125 X 1.375, STRAIGHT SLOTTED, 420 STAINLESS STEEL
			1		PsmEa	B	t1IndMkOther		SPRING PIN, .125 X 1"
			1		PsmEa	B	t1IndMkOther		DOOR HANDLE ASSEMBLY, EMERGENCY DOOR
			1		PsmEa	A	t1IndMkOther		WASHER, REAR EMERGENCY DOOR
			1		PsmEa	D	PsmIndMake		REAR EMERGENCY DOOR HINGE LEVEL 1
			10		PsmEa	B	t1IndMkOther		THREADED INSERT, BLIND, 1/4-20, GRIP RANGE .165-.260
			1		PsmEa	D	t1IndMkOther		HINGE ASSEMBLY, BOTTOM, REAR / RH SIDE, 8" LONG, C2
			1		PsmEa	D	t1IndMkOther		HINGE ASSEMBLY, TOP, REAR / RH SIDE, 8" LONG, C2
			10		PsmEa	A	t1IndMkOther		SCREW, 1/4-20 X 1.00, FLAT HEAD, TAPTITE
			1		PsmEa	B	PsmIndMake		INTERIOR HANDLE ASSEMBLY, RECESS PAN, REAR EMERGENCY DOOR, C2
			1		PsmEa	B	PsmIndMake		STEM, EMERGENCY DOOR HANDLE
			1		PsmEa	A	PsmIndMake		INTERIOR HANDLE, REAR EMERGENCY DOOR, 1.13" OFFSET FLAT BAR
			1		PsmEa	C	PsmIndMake		INTERIOR HANDLE, LEVEL 1, BLACK, REAR EMERGENCY DOOR, C2

Part	Rev	Drawing	Make/Buy	Type	Status	31	32	33	Description
SubParts			Qty	Net Chg	UOM	Rev	Make/Buy		
		120058	1		PsmEa	A	t1IndMkOther		INTERIOR HANDLE ASSEMBLY, RECESS PAN, REAR EMERGENCY DOOR, C2
		120057	1		PsmEa	B	PsmIndMake		INTERIOR HANDLE, LONG, REAR EMERGENCY DOOR, C2
		120363	1		PsmEa	B	PsmIndMake		HANDLE STEM, SIDE EMERGENCY/LIFT DOOR, C2
		64009083	1		PsmEa	A	PsmIndMake		HANDLE STOP, INTERIOR HANDLE, REAR EMERGENCY DOOR
		120506	1		PsmFt	B	t1IndMkOther		TAPE, UHMW FILM, 1"
		29940005	1		PsmEa	A	t1IndMkOther		WASHER - FLAT, 5/8 I.D.
		115742	1		PsmEa	B	PsmIndMake		REAR EMERGENCY DOOR STAMPED ASSY LH DOOR PAN CHART
		101438	1		PsmEa	C	PsmIndMake		REAR EMERGENCY STAMPED DOOR ASSY LH PAN
		100426	0.04		PsmGl	A	PsmIndMake		ADHESIVE CHART, METHYL METHACRYLATE, TWO PART
		100427	0.004		PsmGl	A	PsmIndMake		ACTIVATOR CHART, METHYL METHACRYLATE, TWO PART
		100432	30		PsmEa	A	PsmIndMake		RIVET, SELF PIERCING, 4.8MM-5.15MM X 7MM-7.5MM LG
		101436	1		PsmEa	A	PsmIndMake		FRONT STAMPING, REAR EMERGENCY DOOR, LH PAN
		101437	1		PsmEa	A	PsmIndMake		REAR STAMPNG, REAR EMERGENCY DOOR, LH PAN PLACEMENT
		112575	1		PsmEa	A	PsmIndMake		REINFORCEMENT PLATE, PROP-ROD
		114016	2		PsmEa	A	PsmIndMake		REINFORCEMENT ASSEMBLY, HINGE, 8" HINGE
		114013	1		PsmEa	A	PsmIndMake		REINFORCEMENT PLATE, HINGE, 8" HINGE, C2
		29940006	5		PsmEa	A	PsmIndMake		PREVAILING TORQUE LOCKNUT, 1/4-20, HEX, GRADE B, STEEL, BRIGHT STEEL
		69005060	22		PsmEa	C	PsmIndMake		RIVET-3/16 DIA BREAK MANDREL BLIND RIVET, PROT. HEAD, S.S.
		117857	1		PsmEa	D	PsmIndMake		REAR EMERGENCY DOOR LEAF LEVEL 1, 1PT LATCH
		117852	1		PsmEa	J	t1IndMkOther		REAR EMERGENCY DOOR ASSEMBLY, 3 POINT LATCH
		112575	1		PsmEa	F	PsmIndMake		REINFORCEMENT PLATE, PROP-ROD
		116626	1		PsmEa	B	PsmIndMake		OUTER STAMPING, REAR EMERGENCY DOOR, C2
		116627	1		PsmEa	D	PsmIndMake		INNER STAMPING, REAR EMERGENCY DOOR, C2
		117581	1		PsmEa	D	PsmIndMake		LATCH PLATE
		120949	2		PsmEa	C	PsmIndMake		REINFORCEMENT PLATE, 3 POINT LATCH, C2
		Add - 121198	0.0001		PsmGl	C	PsmIndMake		ACTIVATOR, METHYL METHYACYLATE, FAST, ITW PLEXUS MA1115, TWO PART

Part SubParts	Rev	Drawing	Make/Buy Qty	Type Net Chg	Status UOM	31 Rev	32 Make/Buy	33	Description
		Add - 121199	0.001		PsmGl	C	PsmIndMake		ADHESIVE, METHYL METHACRYLATE, ITW PLEXUS MA1115 GB, TWO PART
		123569	2		PsmEa	B	PsmIndMake		REINFORCEMENT PLATE, 8" HINGE
		Add - 125533	20		PsmEa	B	PsmIndMake		CHART,RIVET, SELF PIERCING, COUNTER SUNK
		121533	1		PsmEa	C	t1IndBuyCmpt		RIVET, SELF PIERCING, HENROB 5.15MM DIA X 6.50MM LG
		125526	1		PsmEa	A	t1IndBuyCmpt		RIVET, SELF PIERCING, TEXTRON 4.8MM X 7MM, COUNTER SUNK
		125772	8		PsmEa	B	PsmIndMake		SPACER,CHANNEL, SIDE AND EMERGENCY DOOR
		Del - 67000750	0.001		PsmGl	A	PsmIndMake		ADHESIVE, METHYL METHACRYLATE, MA1115/MA1130, 50 GAL. DRUM
		Del - 67000751	0.0001		PsmGl	A	PsmIndMake		ACTIVATOR, METHYL METHACRYLATE, MA1115, 5 GAL. PAIL
		122266	10		PsmEa	A	t1IndMkOther		SCREW, 1/4-20 X 1.00, FLAT HEAD, TAPTITE
		Add - 136966	1		PsmEa	C	t1IndMkOther		REAR EMERGENCY DOOR ASSEMBLY, 1 POINT LATCH
		112575	1		PsmEa	G	PsmIndMake		REINFORCEMENT PLATE, PROP-ROD
		116626	1		PsmEa	B	PsmIndMake		OUTER STAMPING, REAR EMERGENCY DOOR, C2
		116627	1		PsmEa	D	PsmIndMake		INNER STAMPING, REAR EMERGENCY DOOR, C2
		117581	1		PsmEa	D	PsmIndMake		LATCH PLATE
		121198	0.00012	+0.00002	PsmGl	D	PsmIndMake		ACTIVATOR, METHYL METHACRYLATE, FAST, ITW PLEXUS MA1115, TWO PART
		121199	0.0012	+0.0002	PsmGl	C	PsmIndMake		ADHESIVE, METHYL METHACRYLATE, ITW PLEXUS MA1115 GB, TWO PART
		123569	2		PsmEa	B	PsmIndMake		REINFORCEMENT PLATE, 8" HINGE
		125533	18		PsmEa	B	PsmIndMake		CHART,RIVET, SELF PIERCING, COUNTER SUNK
		121533	1		PsmEa	C	t1IndBuyCmpt		RIVET, SELF PIERCING, HENROB 5.15MM DIA X 6.50MM LG
		125526	1		PsmEa	A	t1IndBuyCmpt		RIVET, SELF PIERCING, TEXTRON 4.8MM X 7MM, COUNTER SUNK
		125772	8		PsmEa	B	PsmIndMake		SPACER,CHANNEL, SIDE AND EMERGENCY DOOR
		Add - 138158	1		PsmEa	A	PsmIndMake		HANDLE, EMERGENCY AND LIFT DOOR, EXTERIOR
		Add - 148087	1		PsmEa	A	PsmIndMake		SPRING PIN, .125 X 1.375, STRAIGHT SLOTTED, 420 STAINLESS STEEL
		Del - 27273936	1		PsmEa	C	PsmIndMake		SPRING PIN, .125 X 1"
		Del - 64008981	1		PsmEa	B	PsmIndMake		DOOR HANDLE ASSEMBLY, EMERGENCY DOOR
118737	F	118737	PsmIndMake	Assembly	Production	174	012	001	SIDE EMERDR.COMPLETESM.50"RHS, 1PT HINGED TO FRT WO/VANDALOCK
117221			1		PsmEa	N	PsmIndMake		SIDE EMERGENCY DOOR ASSEMBLY, RECESS, RHS, 50"

Part	Rev	Drawing	Make/Buy	Type	Status	31	32	33	Description
SubParts			Qty	Net Chg	UOM	Rev	Make/Buy		
		112575	1		PsmEa	G	PsmIndBuy		REINFORCEMENT PLATE, PROP-ROD
		Add - 116918	1		PsmEa	D	PsmIndBuy		OUTER STAMPING, SIDE EMERGENCY DOOR, RECESS, RHS, 50", C2
		116922	1		PsmEa	C	PsmIndBuy		DOOR STAMPING, SIDE EMERGENCY, INNER, RS, 50"
		117581	1		PsmEa	D	PsmIndBuy		LATCH PLATE
		120949	1		PsmEa	D	PsmIndBuy		REINFORCEMENT PLATE, 3 POINT LATCH, C2
		121198	0.0001		PsmGl	D	PsmIndBuy		ACTIVATOR, METHYL METHYACRYLATE, FAST, ITW PLEXUS MA1115, TWO PART
		121199	0.0012		PsmGl	C	PsmIndBuy		ADHESIVE, METHYL METHYACRYLATE, ITW PLEXUS MA1115 GB, TWO PART
		121460	2		PsmEa	A	PsmIndBuy		DOOR REINFORCEMENT CHANNEL, 50 INCH DOOR
		121533	13		PsmEa	C	PsmIndBuy		RIVET, SELF PIERCING, HENROB 5.15MM DIA X 6.50MM LG
		Del - 121709	1		PsmEa	A	PsmIndMake		OUTER STAMPING ASSEMBLY, SIDE EMERGENCY DOOR, RECESS, RHS, 50", C2
		123569	2		PsmEa	B	PsmIndBuy		REINFORCEMENT PLATE, 8" HINGE
		125772	11		PsmEa	B	PsmIndBuy		SPACER, CHANNEL, SIDE AND EMERGENCY DOOR
		Add - 24046368	1		PsmEa	A	PsmIndBuy		RECESSED PAN, EMERGENCY DOOR, STEEL
		118674	1		PsmEa	D	PsmIndMake		DOOR LATCH ASM, VANDALOCK, RHS, REAR AND SIDE EMERGENCY DOOR
		118341	1		PsmEa	C	PsmIndMake		MOUNTING PLATE, LATCH, RHS, EMERGENCY DOOR
		Del - 122115	1		PsmEa	A	PsmIndMake		SPRING, VANDALOCK EMERGENCY DOOR
		24093365	1		PsmEa	D	PsmIndMake		GEAR-SPUR, - SPUR, EMERGENCY DOOR
		27271166	4		PsmEa	C	PsmIndMake		KEEP NUT, 10-24
		64009025	1		PsmEa	D	PsmIndMake		CARRIER, DOOR LATCH LIFT/EMERGENCY DOOR, W/VANDALOCK
		64009027	1		PsmEa	B	PsmIndMake		VANDALOCK BOLT LIFT/EMERGENCY DOOR
		64009028	1		PsmEa	A	PsmIndMake		BOLT, LATCH, W/VANDALOCK
		64009029	1		PsmEa	C	PsmIndMake		DOOR LATCH SPRING
		64009196	2		PsmEa	C	PsmIndMake		GASKET, DOOR LATCH LIFT/EMERGENCY DOOR W/VANDLELOCK
		64009198	1		PsmEa	C	PsmIndMake		COVER, LATCH CASE
		69002268	4		PsmEa	C	PsmIndMake		CAP SCREW, BUTTON HEAD, #10-24, 1.25 LONG
		69005005	2		PsmEa	C	PsmIndMake		RIVET, 3/16 DIA, BLIND
		138158	1		PsmEa	A	PsmIndMake		HANDLE, EMERGENCY AND LIFT DOOR, EXTERIOR
		Add - 148087	1		PsmEa	A	PsmIndMake		SPRING PIN, .125 X 1.375, STRAIGHT SLOTTED, 420 STAINLESS STEEL
		Del - 27273936	1		PsmEa	B	PsmIndMake		SPRING PIN, .125 X 1"
		64007432	1		PsmEa	C	PsmIndMake		INTERIOR HANDLE

Part SubParts	Rev	Drawing	Make/Buy Qty	Type Net Chg	Status UOM	31 Rev	32 Make/Buy	33	Description
64009775			1		PsmEa	B	PsmIndMake		HANDLE KEEPER, SIDE EMERGENCY DOOR
69003249			1		PsmEa	J	PsmIndMake		NO. 12 X .63 L PAN HEAD, TAPPING SCREW
118907	F	118907	PsmIndMake	Assembly	Production	173	012	001	SIDE EMER. DR. 40" COMPLETE ASM. L/S, 3PT. LOCK NO VANDALOCK.
104722			1		PsmEa	F	PsmIndMake		HINGE LEVEL 1, 8" LONG, RIGHT SIDE EMERGENCY DOOR, C2
113784			1		PsmEa	D	t1IndMkOther		HINGE ASSEMBLY, BOTTOM, REAR / RH SIDE, 8" LONG, C2
Del - 113784			1		PsmEa	D	t1IndMkOther		HINGE ASSEMBLY, BOTTOM, REAR / RH SIDE, 8" LONG, C2
113815			1		PsmEa	D	t1IndMkOther		HINGE ASSEMBLY, TOP, REAR / RH SIDE, 8" LONG, C2
113815			1		PsmEa	D	t1IndMkOther		HINGE ASSEMBLY, TOP, REAR / RH SIDE, 8" LONG, C2
122266			10		PsmEa	A	t1IndMkOther		SCREW, 1/4-20 X 1.00, FLAT HEAD, TAPTITE
117420			1		PsmEa	F	PsmIndMake		SIDE EMERGENCY DOOR RECESS LEVEL 1, 40" DOOR, LEFT SIDE
117224			1		PsmEa	J	t1IndMkOther		SIDE EMERGENCY DOOR ASSEMBLY, RECESS, LHS, 40"
112575			1		PsmEa	F	PsmIndMake		REINFORCEMENT PLATE, PROP-ROD
116625			1		PsmEa	C	PsmIndMake		INNER STAMPING, SIDE EMERGENCY DOOR, LHS, 40", C2
117581			1		PsmEa	C	PsmIndMake		LATCH PLATE
120949			1		PsmEa	C	PsmIndMake		REINFORCEMENT PLATE, 3 POINT LATCH, C2
121459			2		PsmEa	A	PsmIndMake		DOOR REINFORCEMENT CHANNEL, 40 INCH DOOR
Add - 121533			15		PsmEa	A	PsmIndMake		RIVET, SELF PIERCING, HENROB 5.15MM DIA X 6.50MM LG
121712			1		PsmEa	A	PsmIndMake		OUTER STAMPING ASSEMBLY, SIDE EMERGENCY DOOR, RECESS, LHS, 40", C2
116624			1		PsmEa	C	PsmIndMake		OUTER STAMPING, SIDE EMERGENCY DOOR, RECESS, LHS, 40", C2
24046368			1		PsmEa	A	PsmIndMake		RECESSED PAN, EMERGENCY DOOR, STEEL
123569			2		PsmEa	A	PsmIndMake		REINFORCEMENT PLATE, 8" HINGE
Del - 125533			30		PsmEa	A	PsmIndMake		CHART, RIVET, SELF PIERCING, COUNTER SUNK
125772			11		PsmEa	A	PsmIndMake		SPACER, CHANNEL, SIDE AND EMERGENCY DOOR
67000750			0.0011	-0.0579	PsmGl	A	PsmIndMake		ADHESIVE, METHYL METHACRYLATE, MA1115/MA1130, 50 GAL. DRUM
67000751			0.0001	-0.0059	PsmGl	A	PsmIndMake		ACTIVATOR, METHYL METHACRYLATE, MA1115, 5 GAL. PAIL
122266			10		PsmEa	A	t1IndMkOther		SCREW, 1/4-20 X 1.00, FLAT HEAD, TAPTITE
120260			1		PsmEa	A	PsmIndMake		INTERIOR HANDLE ASSEMBLY, RECESS DOOR, BLACK, LEFT, SIDE EMERGENCY/LIFT DOOR, C2
120255			1		PsmEa	B	PsmIndMake		INTERIOR HANDLE, SIDE EMERGENCY/LIFT DOOR, C2

Part SubParts	Rev	Drawing	Make/Buy Qty	Type Net Chg	Status UOM	31 Rev	32 Make/Buy	33	Description
120363			1		PsmEa	B	PsmIndMake		HANDLE STEM, SIDE EMERGENCY/LIFT DOOR, C2
64009083			1		PsmEa	A	PsmIndMake		HANDLE STOP, INTERIOR HANDLE, REAR EMERGENCY DOOR
121248			1		PsmEa	B	PsmIndMake		DOOR LATCH LEVEL 1, THREE POINT, NO VANDALOCK, LEFT SIDE EMERGENCY DOOR
120273			2		PsmEa	C	t1IndMkOther		ROD GUIDE, 3 POINT LOCK, C2
Del - 120655			1		PsmEa	A	t1IndMkOther		UPPER STRIKE PLATE, THREE POINT LOCK, SIDE EMERGENCY DOOR, C2
121250			1		PsmEa	B	t1IndMkOther		DOOR LATCH ASSEMBLY, THREE POINT, NO VANDALOCK, LEFT SIDE EMERGENCY DOOR, C2
118342			1		PsmEa	C	PsmIndMake		MOUNTING PLATE, LATCH, LHS, EMERGENCY DOOR
121252			1		PsmEa	A	PsmIndMake		DOOR LATCH ROD, LOWER, LEFT SIDE EMERGENCY DOOR, C2
121253			1		PsmEa	A	PsmIndMake		DOOR LATCH ROD, UPPER, LEFT SIDE EMERGENCY DOOR, C2
24092365			1		PsmEa	B	PsmIndMake		BOLT, LATCH
24093365			1		PsmEa	D	PsmIndMake		GEAR-SPUR, - SPUR, EMERGENCY DOOR
27271166			4		PsmEa	C	PsmIndMake		KEEP NUT, 10-24
64009025			1		PsmEa	D	PsmIndMake		CARRIER, DOOR LATCH LIFT/EMERGENCY DOOR, W/VANDALOCK
64009029			1		PsmEa	C	PsmIndMake		DOOR LATCH SPRING
64009196			2		PsmEa	C	PsmIndMake		GASKET, DOOR LATCH LIFT/EMERGENCY DOOR W/VANDLELOCK
64009198			1		PsmEa	C	PsmIndMake		COVER, LATCH CASE
69002268			4		PsmEa	C	PsmIndMake		CAP SCREW, BUTTON HEAD, #10-24, 1.25 LONG
69005005			2		PsmEa	C	PsmIndMake		RIVET, 3/16 DIA, BLIND
69003249			8		PsmEa	H	t1IndMkOther		NO. 12 X .63 L PAN HEAD, TAPPING SCREW
69005005			4		PsmEa	C	t1IndMkOther		RIVET, 3/16 DIA, BLIND
81640021			1		PsmEa	A	t1IndMkOther		THREE POINT LOCK PLUG, LOWER ROD
Add - 138158			1		PsmEa	A	PsmIndMake		HANDLE, EMERGENCY AND LIFT DOOR, EXTERIOR
Del - 64008981			1		PsmEa	B	PsmIndMake		DOOR HANDLE ASSEMBLY, EMERGENCY DOOR
64009774			1		PsmEa	A	PsmIndMake		HANDLE KEEPER, SIDE EMERGENCY DOOR
64008981	D	64008981	PsmIndMake	Assembly	Obsolete	174	012	027	DOOR HANDLE ASSEMBLY, EMERGENCY DOOR
Add - 131118			1		PsmEa	A	PsmIndMake		DOOR HANDLE, EMERGENCY DOOR
Del - 64008802			1		PsmEa	A	PsmIndMake		DOOR HANDLE, EMERGENCY DOOR
69004251			1		PsmEa	B	PsmIndMake		WASHER, FLAT PLAIN, 1 1/32" ID X 1 5/16 OD, POLYETHYLENE

Change color is Thomas Red
Add or Increase color is Green
Delete or Reduce color is Red

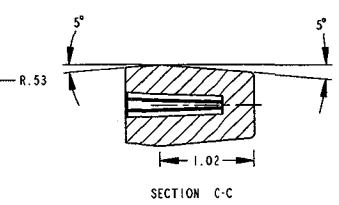
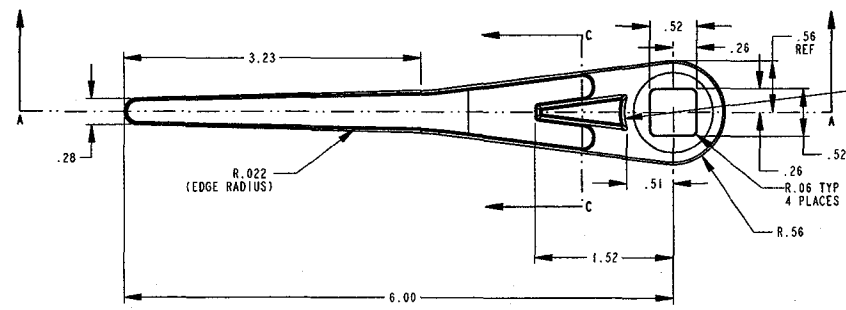
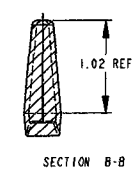
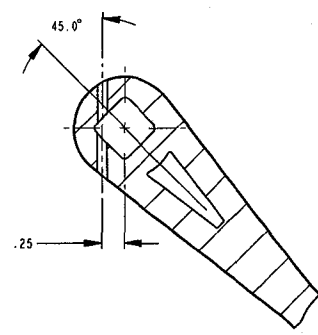
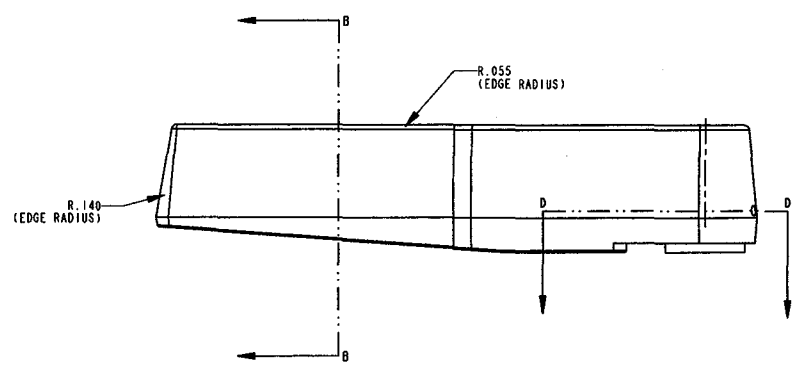
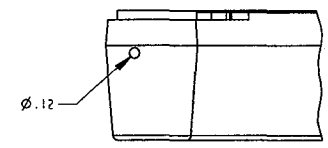
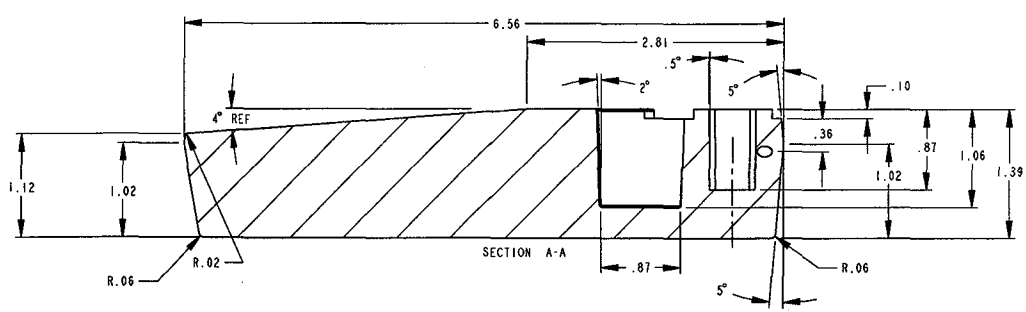
PE07-054

TBB Emergency Exit Door Handle

Attachment 3

**Response to Question 10
Drawings**

PART NUM	MATERIAL
24062376	ALUMINUM

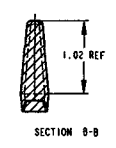
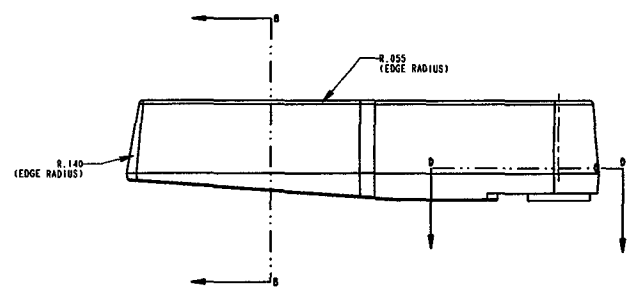
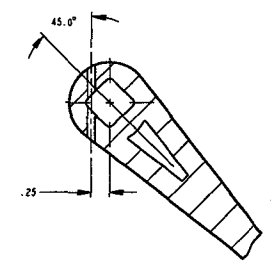
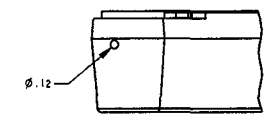
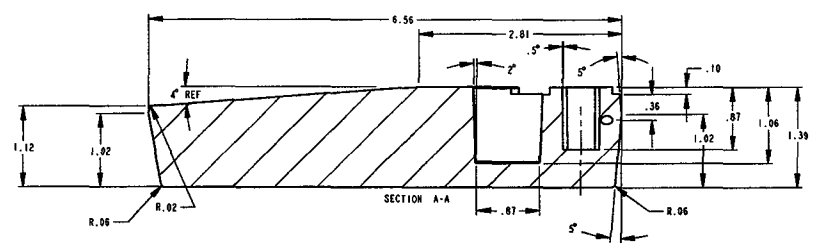


- NOTES:
- 1) MATERIAL: ALUMINUM
 - 2) BLANK: N/A
 - 3) CALCULATED WEIGHT: 0.39 LBS
 - 4) BURRS: N/A
 - 5) FINISH: BLACK DULL GLOSS COATING PER 68001238
 - 6) COLOR: BLACK
 - 7) BENDS: N/A
 - 8) WELDS: N/A
 - 9) REFERENCE: N/A

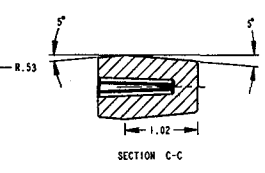
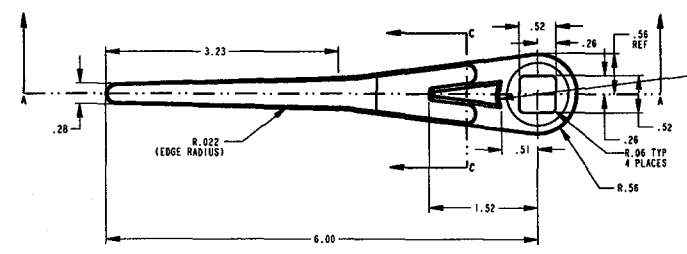
N REVISED DRAWING FOR EXISTING PART AND ADDED COATING SPECIFICATION TO 24062376		3/27/00 RMS MIG 018384-1 HJD DATE BY CT
THOMAS BUILT BUSES, INC. HIGH POINT, NC WOODSTOCK, CANADA		
TOLERANCES UNLESS OTHERWISE NOTED		
THIRD ANGLE PROJECTION	DECIMAL .015 .01 .02 .1 .25	FRACTIONAL ±1/32 ANGULAR ±1°
EMERGENCY DOOR HANDLE		
DRN. 3/27/00 RMS	MATERIAL: SEE NOTE #1	PRO-E
CK'D 3/27/00 HJD ENGR/DESIGNER RMS	SIZE C	DWG. NO. SHEET 1 OF 1 24128365

THIS DRAWING AND ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THOMAS BUILT BUSES, INC. NO REPRODUCTION OR DISTRIBUTION OF THIS MATERIAL OR ANY PART THEREOF WITHOUT WRITTEN PERMISSION OF THOMAS BUILT BUSES, INC. IS HEREBY PROHIBITED. COPYRIGHT © 1997 THOMAS BUILT BUSES, INC.

PART NUM	MATERIAL
24062376	ALUMINUM



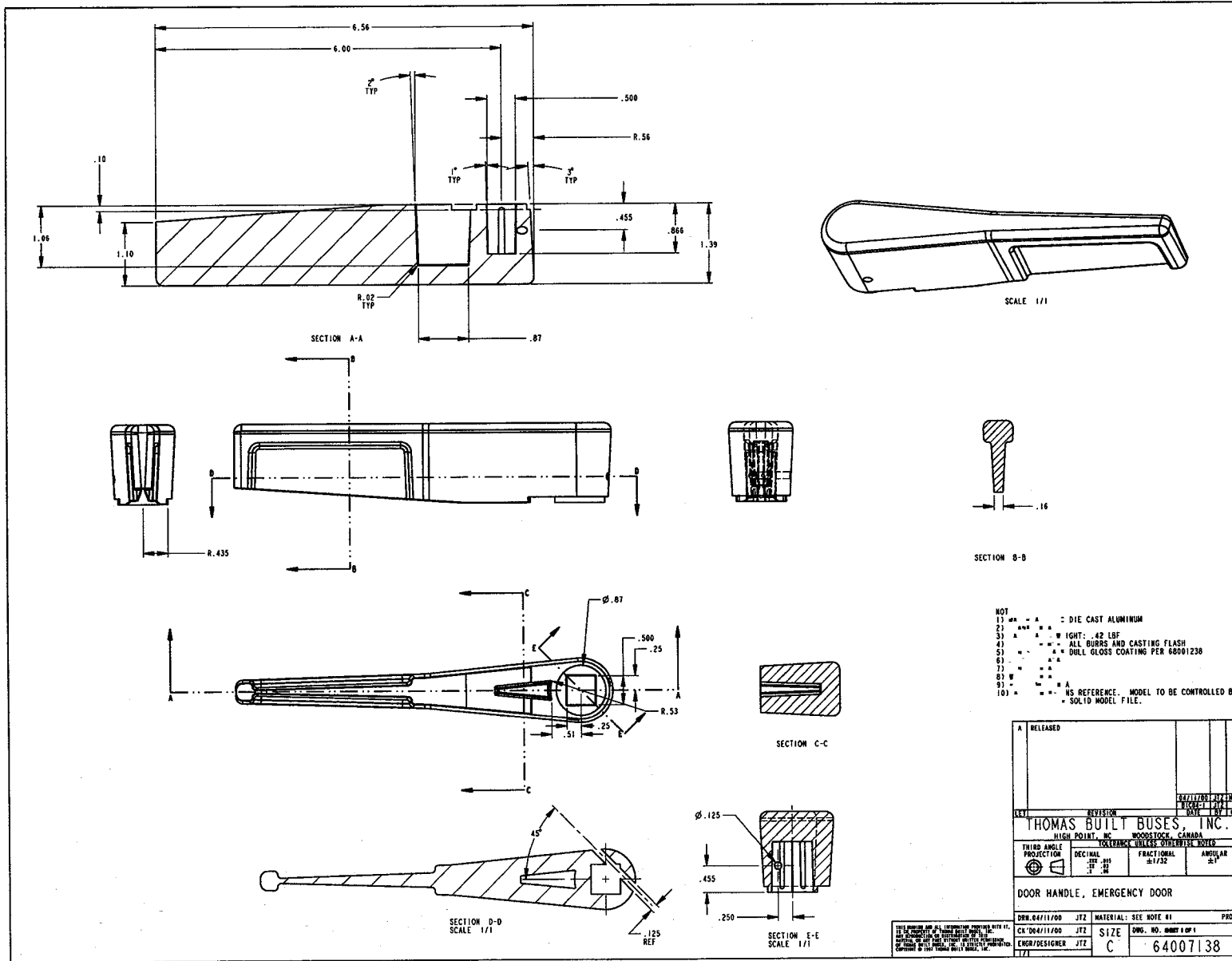
- NO. 13 = ALUMINUM
 23 = A
 33 = D WEIGHT: 0.39 LBS
 43 = R
 53 = LACK DULL GLOSS COATING PER 68001238
 63 = ACK
 73 = A
 83 = A
 93 = N/A



INACTIVE
 See title block for details

P INACTIVE REPLACES BY 6400138 *REV B BIERBE-11* ***			
DESIGNER THOMAS BUILT BUSES, INC. HIGH POINT, NC WOODSTOCK, CANADA		CHECKED BY DATE	
THIRD ANGLE PROJECTION 	DECIMAL 1/16 1/32 1/64	FRACTIONAL 1/2 3/4 1	ANGULAR 15' 30' 45'
DOOR HANDLE, EMERGENCY DOOR			

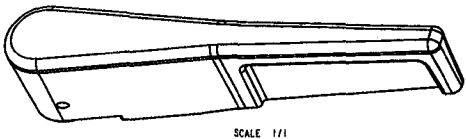
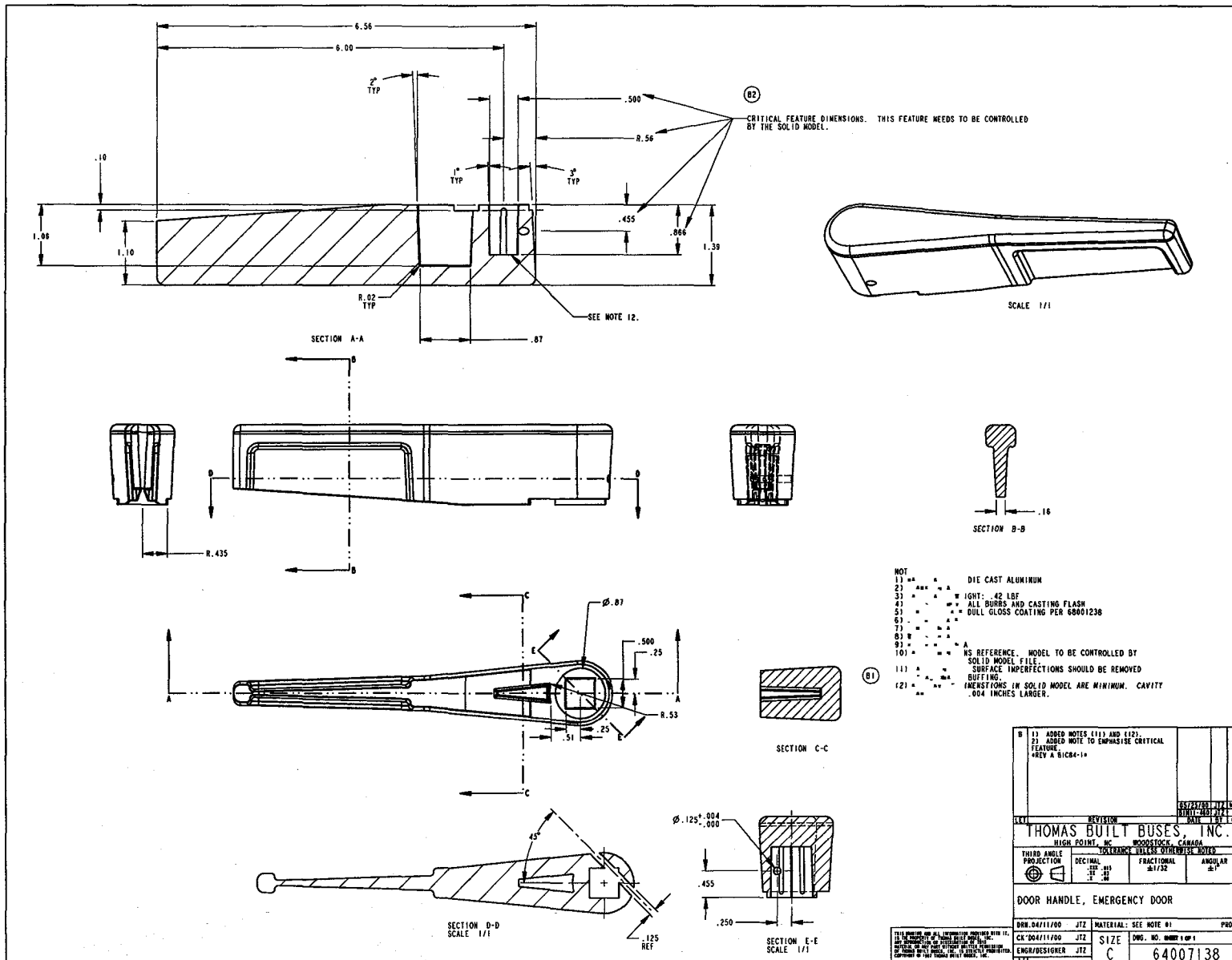
THIS DRAWING AND ALL DIMENSIONS HEREOF SHALL BE THE PROPERTY OF THOMAS BUILT BUSES, INC. NO PART OF THIS DRAWING OR DIMENSIONS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THOMAS BUILT BUSES, INC.	DRW. 3/27/00 DMS MATERIAL: SEE NOTE 01 PRO-E CK 03/27/00 MJD SIZE DWG. NO. 00001001 ENGR/DISIGNER LAD C 24128365
--	---



NOT
 1) \square = DIE CAST ALUMINUM
 2) \square = WIGHT: .42 LBS
 3) \square = ALL BURS AND CASTING FLASH
 4) \square = DULL GLOSS COATING PER 68001238
 5) \square
 6) \square
 7) \square
 8) \square
 9) \square
 10) \square = NS REFERENCE. MODEL TO BE CONTROLLED BY SOLID MODEL FILE.

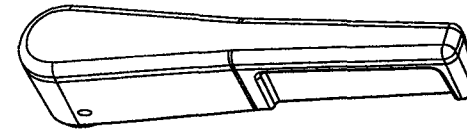
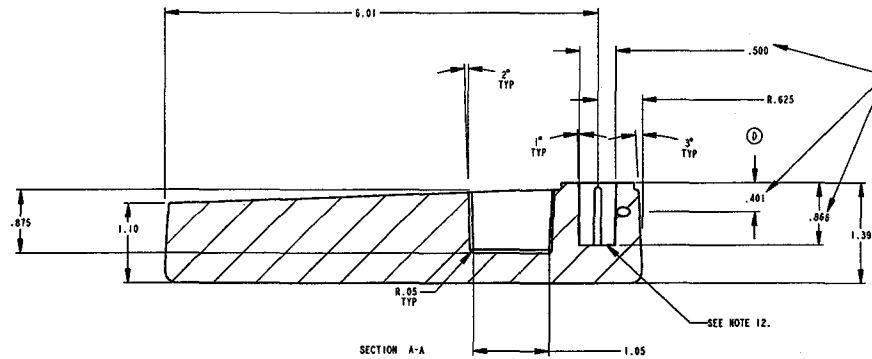
A RELEASED			
REVISION		DATE	
THOMAS BUILT BUSES, INC. HIGH POINT, NC WOODSTOCK, CANADA VOLUNTARY UNLESS OTHERWISE NOTED			
THIRD ANGLE PROJECTION	DECIMAL	FRACTIONAL	ANGULAR
	1/100	1/32	1/16
DOOR HANDLE, EMERGENCY DOOR			
DRW. 04/11/00	JTZ	MATERIAL: SEE NOTE #1	PRO-E
CK'D 04/11/00	JTZ	SIZE	DRG. NO. 00001 1 OF 1
ENGR/DRAWER	JTZ	C	64007138

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES AND DECIMALS THEREOF.
 DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.
 DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.
 DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.
 DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.

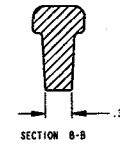
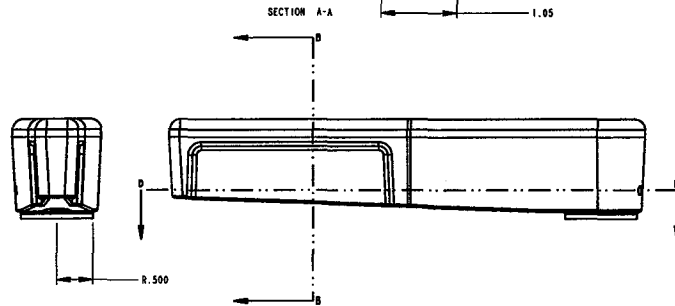


- NOT
- 1) ** * DIE CAST ALUMINUM
 - 2) *** * LIGHT: .42 LBF
 - 4) * * * ALL BURS AND CASTING FLASH
 - 5) * * * DULL GLOSS COATING PER 68001238
 - 6) * * * DULL GLOSS COATING PER 68001238
 - 7) * * * A
 - 8) * * * A
 - 9) * * * A
 - 10) * * * A
 - 11) * * * NS REFERENCE. MODEL TO BE CONTROLLED BY SOLID MODEL FILE. SURFACE IMPERFECTIONS SHOULD BE REMOVED BY BUFFING.
 - 12) * * * DIMENSIONS IN SOLID MODEL ARE MINIMUM. CAVITY .004 INCHES LARGER.

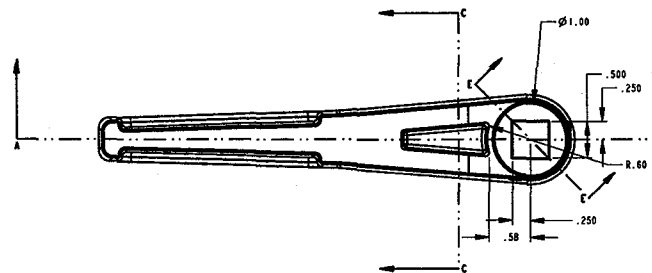
B1 ADDED NOTES (11) AND (12). B2 ADDED NOTE TO EMPHASIZE CRITICAL FEATURE. WHEN A SIZE=10		03/27/00 JZJ/ML 03/27/00 JZJ/ML
THOMAS BUILT BUSES, INC. HIGH POINT, NC WOODSTOCK, CANADA	REVISION DATE	DRAWN BY CHECKED BY
THIRD ANGLE PROJECTION	TOLERANCE UNLESS OTHERWISE NOTED DECIMAL .001 .010 .030 .050 .100 .150 .250 .500 .750 1.000 FRACTIONAL 1/32 3/32 1/16 3/16 1/8 3/8 1/2 3/4 1	ANGLEULAR .5° 1° 1.5° 2° 3° 4° 5° 6° 8° 10° 15° 20° 25° 30° 45° 60° 90°
DOOR HANDLE, EMERGENCY DOOR		
DRN 04/11/00 JZJ CK'D 04/11/00 JZJ ENGR/DRAWN JZJ	MATERIAL: SEE NOTE #1 SIZE C DWG. NO. 64007138	PROD-E 64007138



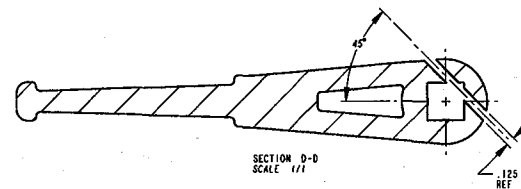
SCALE 1/1



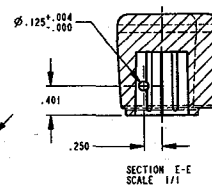
SECTION B-B



SECTION C-C



SECTION D-D
SCALE 1/1

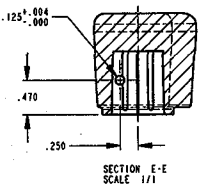
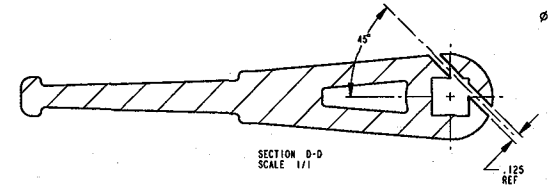
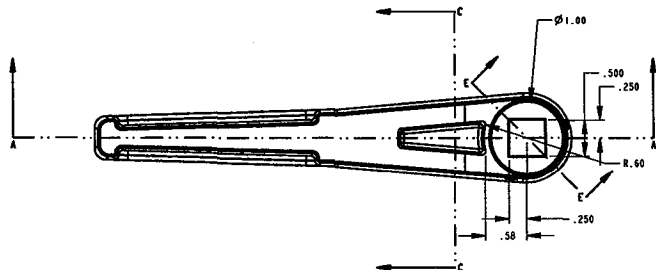
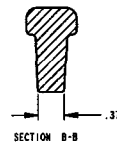
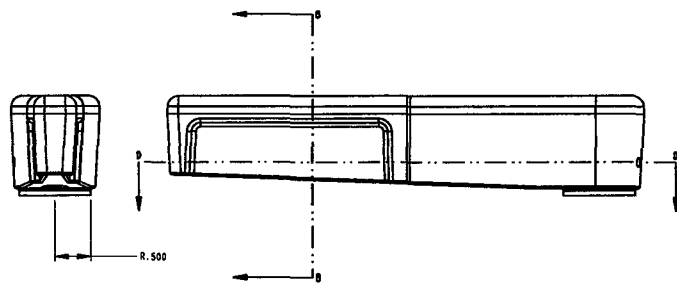
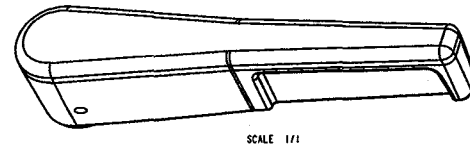
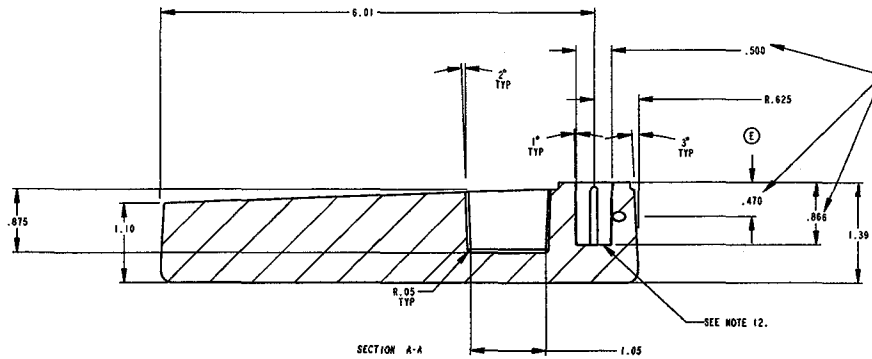


SECTION E-E
SCALE 1/1

- NOTES:
- 1) MATERIAL: 300 DIE CAST ALUMINUM
 - 2) BLANK: N/A
 - 3) CALCULATED WEIGHT: .53 LBS
 - 4) BURRS: REMOVE ALL BURRS AND CASTING FLASH
 - 5) FINISH: BLACK DULL GLOSS COATING PER 68001238
 - 6) COLOR: BLACK
 - 7) BENDS: N/A
 - 8) WELDS: N/A
 - 9) REFERENCE: N/A
 - 10) ALL DIMENSIONS REFERENCE MODEL TO BE CONTROLLED BY CGS FILE OR SOLID MODEL FILE
 - 11) CAST FINISH: SURFACE IMPERFECTIONS SHOULD BE REMOVED BY AUTOMATIC BUFFING.
 - 12) ALL CAVITY DIMENSIONS IN SOLID MODEL ARE MINIMUM. CAVITY CAN BE UP TO .004 INCHES LARGER.

D MAS 455 REV C 0208-10			
10/17/05 JYZ HES		10/17/05 JYZ HES	
REVISION			
THOMAS BUILT BUSES, INC.			
HIGH POINT, NC		WOODSTOCK, CANADA	
THIRD ANGLE PROJECTION		TOLERANCE UNLESS OTHERWISE NOTED	
DECIMAL	FRACTIONAL	ANGULAR	
.001	1/32	.1	
DOOR HANDLE, EMERGENCY DOOR			
DRW 04/11/00	JYZ	MATERIAL: SEE NOTE #1	PRO-E
ENGR/DRAWN	JYZ	SIZE	DWG. NO. 64007138
ENGR/DRAWN	JYZ	C	64007138

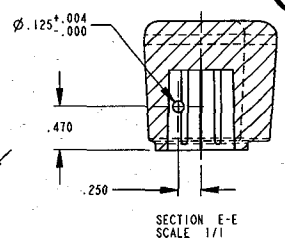
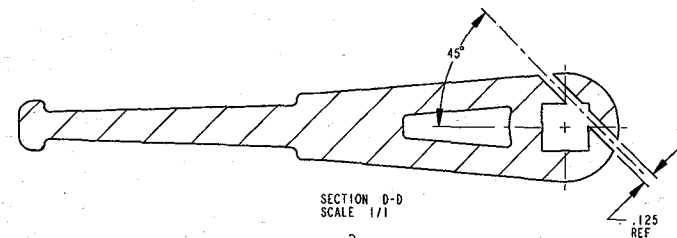
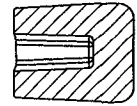
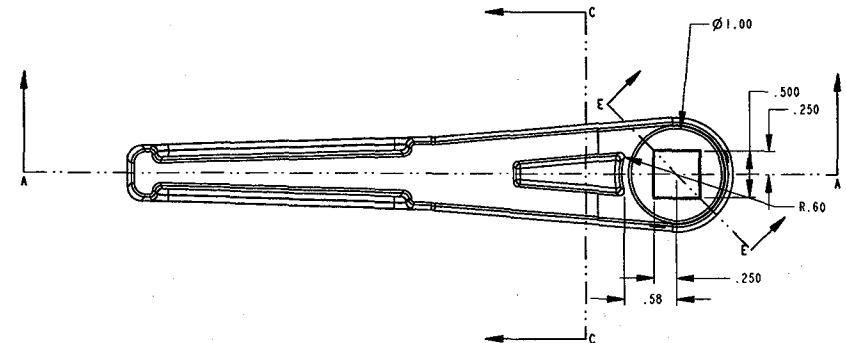
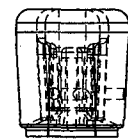
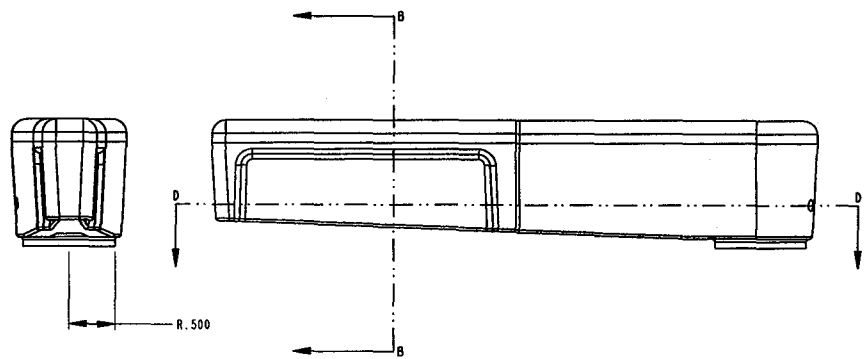
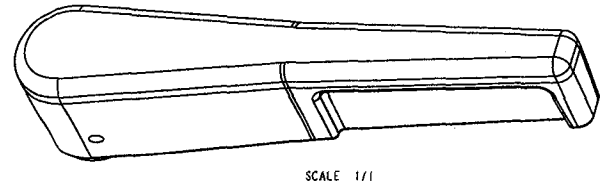
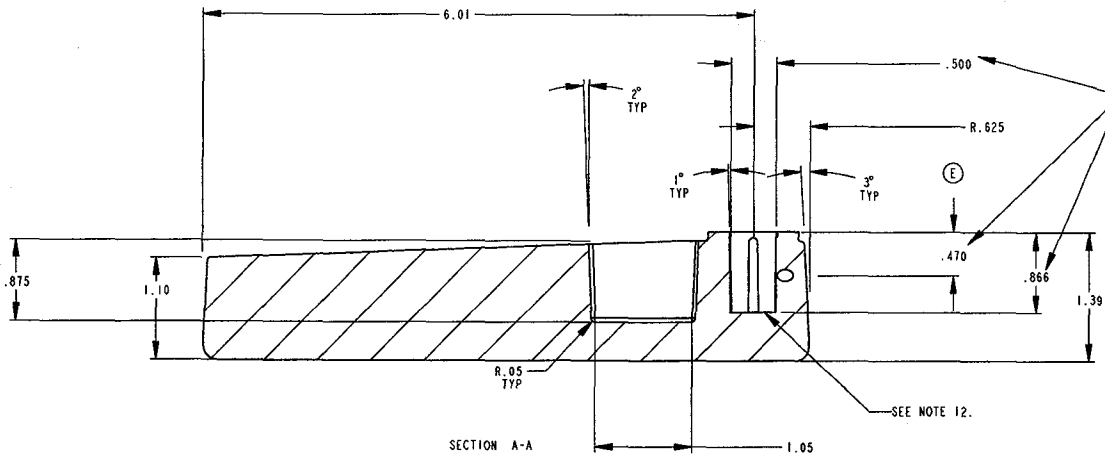
THIS DRAWING AND ALL DIMENSIONS ARE APPROVED BY THE DESIGNER AND THE MANUFACTURER. THE MANUFACTURER SHALL BE RESPONSIBLE FOR THE PRODUCTION OF THE PART. THE MANUFACTURER SHALL BE RESPONSIBLE FOR THE PRODUCTION OF THE PART. THE MANUFACTURER SHALL BE RESPONSIBLE FOR THE PRODUCTION OF THE PART.



CRITICAL FEATURE DIMENSIONS. THIS FEATURE NEEDS TO BE CONTROLLED BY THE SOLID MODEL.

- NOT
 1) DIE CAST ALUMINUM
 2) WEIGHT: 50 LBS
 3) ALL BURRS AND CASTING FLASH
 4) DULL GLOSS COATING PER 68001238
 5) SURFACE IMPERFECTIONS SHOULD BE REMOVED BY BUFFING.
 6) DIMENSIONS IN SOLID MODEL ARE MINIMUM. CAVITY .004 INCHES LARGER.
 7) REFERENCE MODEL TO BE CONTROLLED BY SOLID MODEL FILE.
 8) SURFACE IMPERFECTIONS SHOULD BE REMOVED BY BUFFING.
 9) DIMENSIONS IN SOLID MODEL ARE MINIMUM. CAVITY .004 INCHES LARGER.

E MAS .491 REV D B1M11-513a		DATE: 11/11/00	
THOMAS BUILT BUSES, INC.		WOODSTOCK, CANADA	
THIRD ANGLE PROJECTION	DECIMAL	FRACTIONAL	ANGULAR
PRODUCTION	1/16"	1/32"	±1°
DOOR HANDLE, EMERGENCY DOOR			
DRW: 04/11/00	JTZ	MATERIAL: SEE NOTE #1	PRO-E
CHK: 04/11/00	JTZ	SIZE	SHG. NO. 00001 OF 1
ENGR/DISIGNER		JTZ	C
1/1		64007138	



- NOTES:
- 1) MATERIAL: 380 DIE CAST ALUMINUM
 - 2) BLANK: N/A
 - 3) CALCULATED WEIGHT: .53 LBS
 - 4) BURRS: REMOVE ALL BURRS AND CASTING FLASH
 - 5) FINISH: BLACK DULL GLOSS COATING PER 68001238
 - 6) COLOR: BLACK
 - 7) BENDS: N/A
 - 8) WELDS: N/A
 - 9) REFERENCE: N/A
 - 10) ALL DIMENSIONS REFERENCE. MODEL TO BE CONTROLLED BY IGES FILE OR SOLID MODEL FILE.
 - 11) CAST FINISH: SURFACE IMPERFECTIONS SHOULD BE REMOVED BY AUTOMATIC BUFFING.
 - 12) ALL CAVITY DIMENSIONS IN SOLID MODEL ARE MINIMUM. CAVITY CAN BE UP TO .004 INCHES LARGER.

INACTIVE
See title block for details

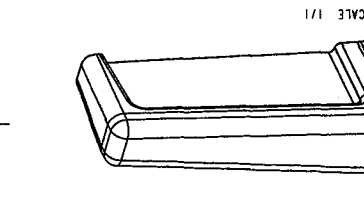
F INACTIVATED REPLACED BY 64008802		11-07-01 DWS MIE 1725-1 1/17	
REVISION DATE BY ICF			
THOMAS BUILT BUSES, INC.			
HIGH POINT, NC		WOODSTOCK, CANADA	
TOLERANCE UNLESS OTHERWISE NOTED			
THIRD ANGLE PROJECTION	DECIMAL ±.015 ±.01	FRACTIONAL ±1/32	ANGULAR ±1°
DOOR HANDLE, EMERGENCY DOOR			
DRW. 04/11/00	JTZ	MATERIAL: SEE NOTE #1	PRO-E
CK'D 04/11/00	JTZ	SIZE	DRG. NO. SHEET 1 OF 1
ENGR/DESIGNER JTZ	C	64007138	1/1

THIS DRAWING AND ALL INFORMATION PROVIDED WITH IT, IS THE PROPERTY OF THOMAS BUILT BUSES, INC. ANY REPRODUCTION OR DISTRIBUTION OF THIS MATERIAL OR ANY PART THEREOF WITHOUT PERMISSION OF THOMAS BUILT BUSES, INC. IS EXPRESSLY PROHIBITED. COPYRIGHT © 2007 THOMAS BUILT BUSES, INC.

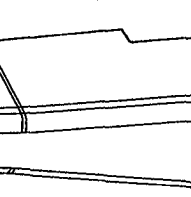
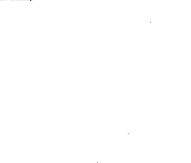
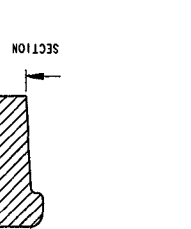
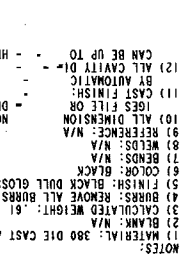
DMS MATERIAL: SEE NOTE #1		DMS SIZE C		DMS NO. 64008802	
DMS MATERIAL: SEE NOTE #1		DMS SIZE C		DMS NO. 64008802	
DMS MATERIAL: SEE NOTE #1		DMS SIZE C		DMS NO. 64008802	
DMS MATERIAL: SEE NOTE #1		DMS SIZE C		DMS NO. 64008802	
DMS MATERIAL: SEE NOTE #1		DMS SIZE C		DMS NO. 64008802	
DMS MATERIAL: SEE NOTE #1		DMS SIZE C		DMS NO. 64008802	
DMS MATERIAL: SEE NOTE #1		DMS SIZE C		DMS NO. 64008802	
DMS MATERIAL: SEE NOTE #1		DMS SIZE C		DMS NO. 64008802	
DMS MATERIAL: SEE NOTE #1		DMS SIZE C		DMS NO. 64008802	
DMS MATERIAL: SEE NOTE #1		DMS SIZE C		DMS NO. 64008802	

THOMAS BUILT BUSES, INC.
 WOODSTOCK, CANADA
 HIGH POINT, NC
 TOLERANCE UNLESS OTHERWISE NOTED
 THIRD ANGLE PROJECTION
 DECIMAL SIZE .015
 FRACTIONAL SIZE 1/32
 ANGULAR ±.1
 REVISION DATE BY CT
 11-01-01 DMS MIB
 11-01-01 DMS MIB

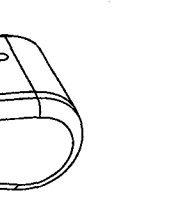
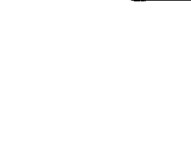
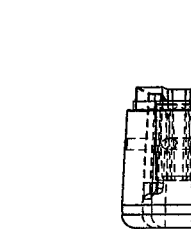
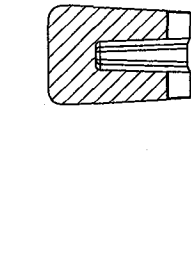
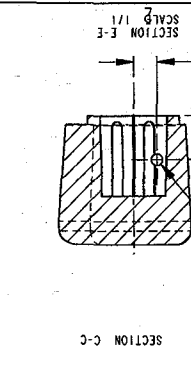
NOTES:
 1) MATERIAL: 380 DIE CAST ALUMINUM
 2) DIM: N/A
 3) CALCULATED WEIGHT: .61 LBS
 4) BARRS: REMOVE ALL BARRS AND CASTING FLASH
 5) FINISH: BLACK DULL GLOSS COATING PER 68001298
 6) COLOR: BLACK
 7) DIMS: N/A
 8) REFERENCE: N/A
 9) ALL DIMENSION
 10) DEL FILE
 11) IMPERFECTIONS SHOULD BE REMOVED
 12) IN SOLID MODEL ARE MINIMUM. CAVITY CAN BE UP TO .015 LARGER.



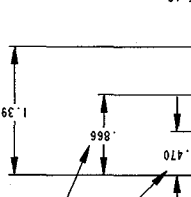
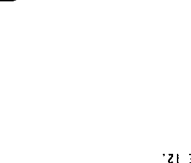
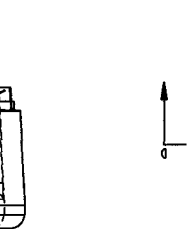
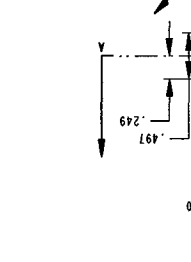
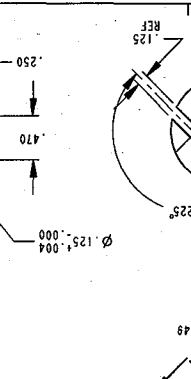
CRITICAL FEATURE DIMENSIONS. THIS FEATURE NEEDS TO BE CONTROLLED BY THE SOLID MODEL.



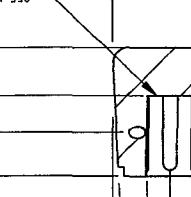
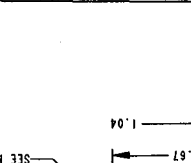
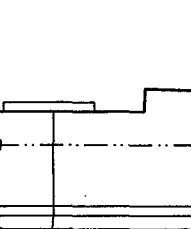
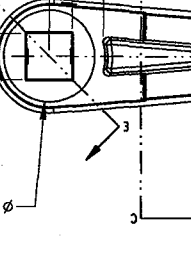
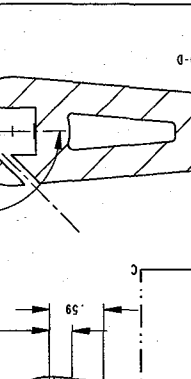
CRITICAL FEATURE DIMENSIONS. THIS FEATURE NEEDS TO BE CONTROLLED BY THE SOLID MODEL.



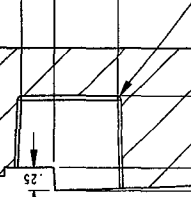
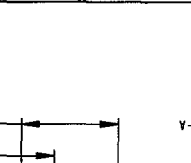
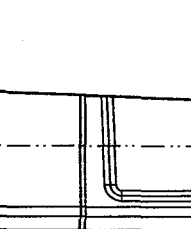
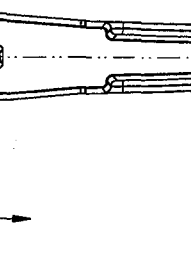
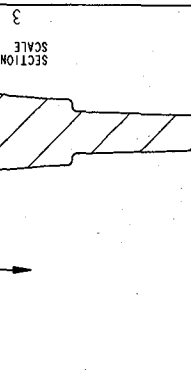
CRITICAL FEATURE DIMENSIONS. THIS FEATURE NEEDS TO BE CONTROLLED BY THE SOLID MODEL.



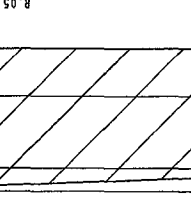
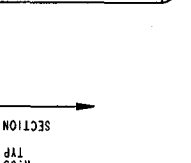
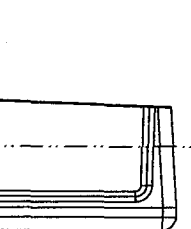
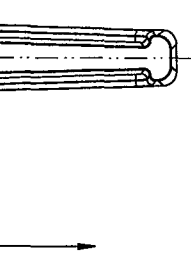
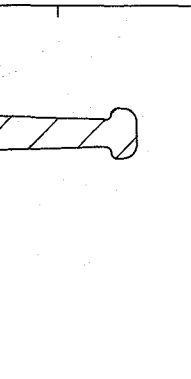
CRITICAL FEATURE DIMENSIONS. THIS FEATURE NEEDS TO BE CONTROLLED BY THE SOLID MODEL.



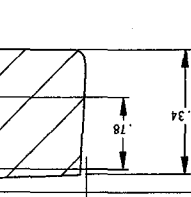
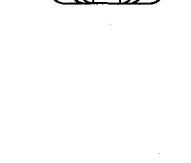
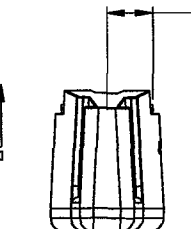
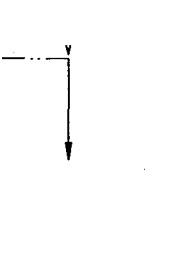
CRITICAL FEATURE DIMENSIONS. THIS FEATURE NEEDS TO BE CONTROLLED BY THE SOLID MODEL.



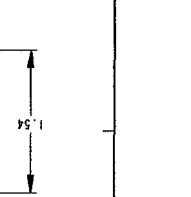
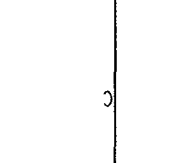
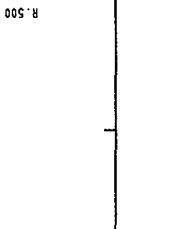
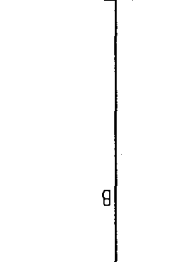
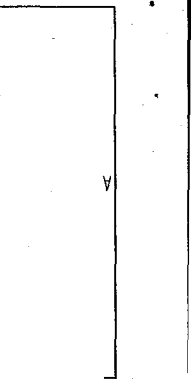
CRITICAL FEATURE DIMENSIONS. THIS FEATURE NEEDS TO BE CONTROLLED BY THE SOLID MODEL.



CRITICAL FEATURE DIMENSIONS. THIS FEATURE NEEDS TO BE CONTROLLED BY THE SOLID MODEL.



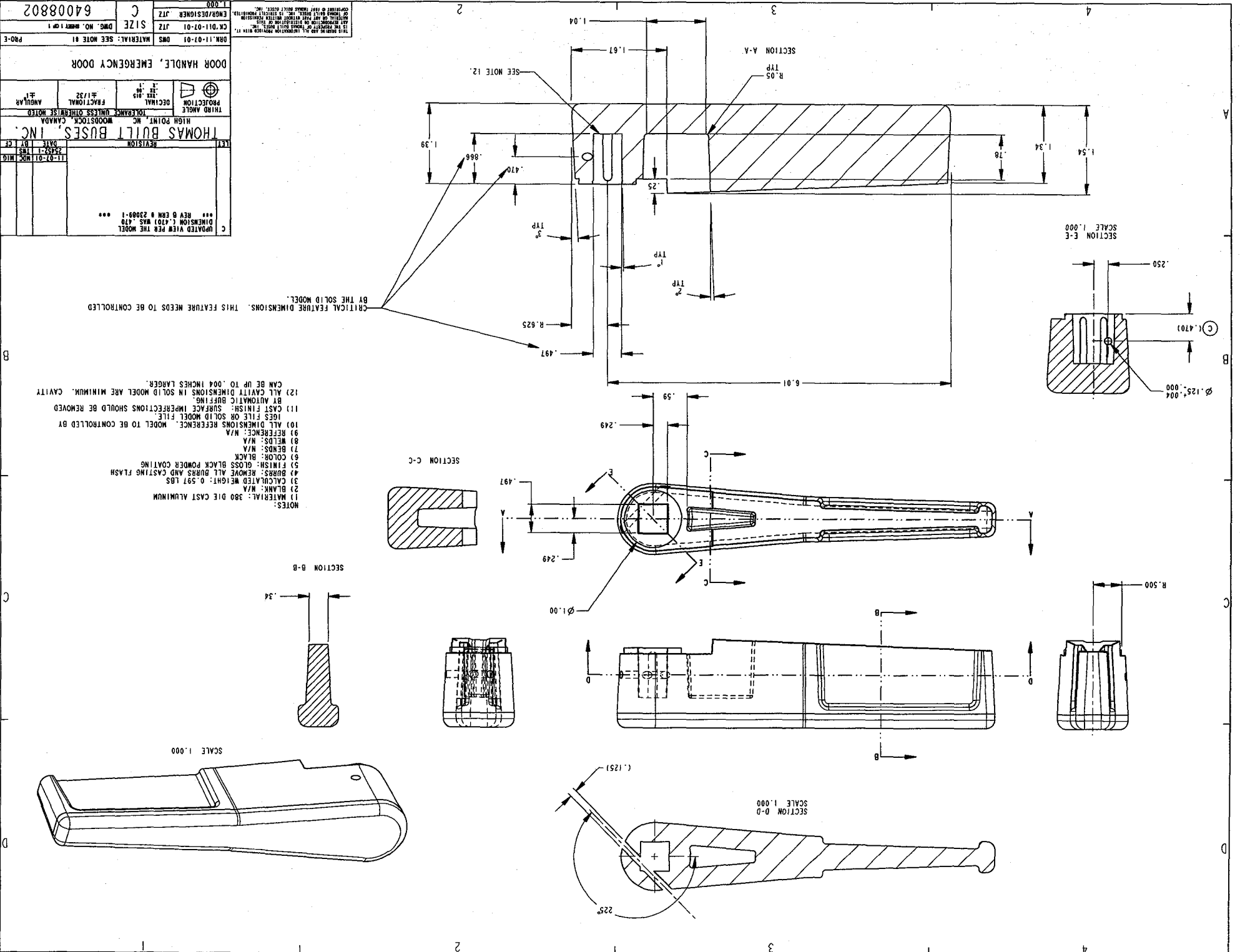
CRITICAL FEATURE DIMENSIONS. THIS FEATURE NEEDS TO BE CONTROLLED BY THE SOLID MODEL.



CRITICAL FEATURE DIMENSIONS. THIS FEATURE NEEDS TO BE CONTROLLED BY THE SOLID MODEL.

1.000		C		64008802	
ENGR/DRAWN		JITZ		DATE	
CK 011-07-01		JITZ		11-07-01	
MATERIAL: SEE NOTE #1		DMS		DRN 11-07-01	
DOOR HANDLE, EMERGENCY DOOR		PROJECT		THOMAS BUILT BUSES, INC.	
ANGULAR		FRACTIONAL		11/32	
TOLERANCE UNLESS OTHERWISE NOTED		THIRD ANGLE		WOODSTOCK, CANADA	
DATE		BY		CHK	
11-07-01		JITZ		MIG	
REV B ENR R 25005-1 ***		DIMENSION (.470) WAS .470		UPDATED VIEW PER THE MODEL	

THIS DRAWING IS THE PROPERTY OF THOMAS BUILT BUSES, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND MODEL IDENTIFIED HEREON. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF THOMAS BUILT BUSES, INC.



CRITICAL FEATURE DIMENSIONS. THIS FEATURE NEEDS TO BE CONTROLLED BY THE SOLID MODEL.

- NOTES:
- 1) MATERIAL: 380 DIE CAST ALUMINUM
 - 2) BLANK: N/A
 - 3) CALCULATED WEIGHT: 0.597 LBS
 - 4) BURRS: REMOVE ALL BURRS AND CASTING FLASH
 - 5) FINISH: GLOSS BLACK POWDER COATING
 - 6) COLOR: BLACK
 - 7) BENDS: N/A
 - 8) WELDS: N/A
 - 9) REFERENCE: N/A
 - 10) ALL DIMENSIONS REFERENCE MODEL TO BE CONTROLLED BY CAST FILE OR SOLID MODEL FILE
 - 11) CAST FINISH: SURFACE IMPERFECTIONS SHOULD BE REMOVED BY AUTOMATIC BUFFING
 - 12) ALL CAVITY DIMENSIONS IN SOLID MODEL ARE MINIMUM. CAVITY CAN BE UP TO .004 INCHES LARGER.

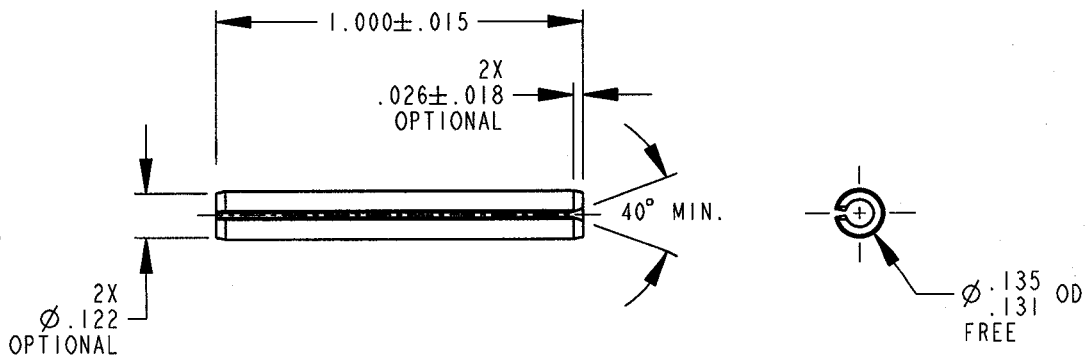
SCALE 1.000

SECTION D-D
SCALE 1.000

SECTION E-E
SCALE 1.000

2

B



NOTES:

- 1) MATERIAL: SEE SPECIFICATIONS BELOW
- 2) BLANK SIZE: N/A
- 3) ESTIMATED WEIGHT: .0086 LBS
- 4) BURRS: BREAK ALL SHARP EDGES
- 5) FINISH: ZINC PLATE PER QQ-Z-325a, TYPE 1, CLASS 3, .0002 MIN. THK.
- 6) COLOR: N/A
- 7) BENDS: N/A
- 8) WELDS: N/A
- 9) RECOMMENDED HOLE SIZE: ϕ .125-.129
- 10) COMPLETED PART MUST MEET OR EXCEED LATEST REVISION OF THE FOLLOWING SPECIFICATIONS:
 - A) SPRING TYPE STRAIGHT PINS - SAE J496
 - B) SPRING PINS - ASME B18.8.2
- 11) DIMENSIONS AND TOLERANCES SHOWN PER ASME B18.8.2 2000

MATERIAL SPECIFICATION:
 MATERIAL: SAE 1070-1095 STEEL, .028 THK.
 DOUBLE SHEER LOAD: 1875 LBS. MIN.
 ROCKWELL HARDNESS: C46

A

THIS DRAWING AND ALL INFORMATION PROVIDED WITH IT, IS THE PROPERTY OF THOMAS BUILT BUSES, INC. ANY REPRODUCTION OR DISTRIBUTION OF THIS MATERIAL OR ANY PART WITHOUT WRITTEN PERMISSION OF THOMAS BUILT BUSES, INC. IS STRICTLY PROHIBITED. COPYRIGHT © 1997 THOMAS BUILT BUSES, INC.

THIRD ANGLE PROJECTION 	TOLERANCE UNLESS OTHERWISE NOTED			THOMAS BUILT BUSES, INC. HIGH POINT, NC				
	DECIMAL ± .xxx .015 .xx .06 .x .1	FRACTIONAL ±1/32	ANGULAR ±1°					SPRING PIN, .125 X 1.00 LG. STRAIGHT SLOTTED, STEEL W/ZINC PLATE
A	RELEASE DETAIL DRAWING OF PART			DRN.09/18/07	REB	MATERIAL: SEE NOTE #1		0
				CK'D09/18/07	JDS	SIZE	DWG. NO. SHEET 1 OF 1	
				09/18/07	REB	A	27273936	
				NONE	JDS			
LET	REVISION			DATE	BY	CF	2.000	