

**AIR DATA ACCESSORIES KIT
MODEL No. ADA853-9
McDONNELL DOUGLAS
DC-9 AIRCRAFT**



AIR DATA ACCESSORIES KIT
MODEL No. ADA853-9
DC-9 AIRCRAFT
- Proprietary Information -

This kit contains all the equipment required to test from source the complete pitot and static air data system on the DC-9 aircraft, as well as the means of pre-testing all adaptors and hoses prior to being fitted to the aircraft.

Pitot Test Adaptor

Part No. P15589M1-3 (3 req'd.)

These units fit the pitot probes 851AK located on the nose of the aircraft and when installed they will test each system separately or simultaneously.

Pre-Test Probe

Part No. PT11558M1 (3 req'd.)

When it becomes necessary to test the integrity of the pitot adaptors and/or hoses and test set prior to being fitted to aircraft system, these units are installed into the pitot adaptors thus simulating the pitot head.

Static Test Adaptor

Part No. 33410-90-4 (5 req'd.)

These units are shipped attached to the static test hose assemblies.

To install, fully depress plunger, insert into centre hole of static vent and release plunger. A slight rotation motion in each direction ensures a good seal. This unit is self-sealing, locking, aligning and testing as the protective cap on the mandril doubles as a pre-test unit. To remove from static vent, fully depress plunger and withdraw. Replace pre-test cap.

The first dash number identifies the size of hole in centre of the static vent and the last dash number identifies the fitting size (-4 indicates 1/4" hose size).

Static Blanking Adaptor

Part No. 33410B-90 (5 req'd.)

These units are stowed in the transit case cover. When the static system is to be tested, one of these units is fitted to the appropriate static vent located on the opposite side of the aircraft, in order to enclose the system being tested. These units are inserted and removed in the same fashion as the test adaptors.

Pitot Test Hose Assembly

Part No. 757-133 (3 req'd.)

Three of these assemblies are included in the kit and are connected to the pitot adaptor from the designated outlet on the control console and may be selected as required. Hoses are color coded at each end.

Pitot Input Hose Assembly

Part No. 757-214 (1 req'd.)

This assembly is used to connect the pitot outlet of the pneumatic generator to the pitot inlet located on the right hand side of the top panel of the control box.

Static Test Hose Assembly

Part No. 767-212 (5 req'd.)

Five of these assemblies are supplied with the kit. A 33410-90-4 test adaptor is attached to each hose assembly for convenience of use. The adaptors to blank off opposite vent being stowed in the case cover.

Static Input Hose Assembly

Part No. 757-211 (1 req'd.)

This assembly is used to connect the static outlet of the pneumatic generator to the connection on the left handside of the top panel of the control console.

September 9, 2020



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Vacu-Grip Assembly

Part No. 421-8971 (1 req'd.)

One of these units is supplied with each kit to provide a means of support for static system test hose assemblies and to protect against such hazards as work stands, vehicles, etc. during test.

Pitot & Static System Control Console

Part No. 421-529M (1 req'd.)

This unit contains all necessary inlets and outlets required to connect the pneumatic generator and the adaptors and hoses to the aircraft sensing system. An instant acting control valve is supplied for each outlet. These valves are shut-off when the handle is in the vertical position. The static systems input and output connections and control valves are located on the left side of the panel whilst the pitot system connection and control valves are located on the right side. All inlets etc. are identified on the photo etched panel. A facility for testing two pairs of static adaptors simultaneously is provided on the top panel. The hoses connected to console and adaptors are color coded at each end for easy system identification.

N.B. Valves should remain in selected position during entire test.

Lubricating Fluid

Part No. LF5050 (1 req'd.)

This fluid is used to lubricate the glands of the pitot & dual static and pitot static test adaptors.

Only a very small amount is needed to lubricate the adaptor's interior glands before installing the adaptors onto the aircraft probes.

This process will help to prolong the life of the seals as well as facilitate a smooth

installation of the applicable adaptor onto the corresponding aircraft probe.

Using only 1 or 2 drops, apply a thin film coating onto the surface of the applicable Pre-Test Probe(s).

Then, while using a slight CW/CCW rotation, insert the Pre-Test Probe into the adaptor when setting-up for the 'Pre-Test' stage of the ADTU before hooking up to the aircraft's probes.

WARNING: Nav-Aids Ltd. @ P/N LF5050, Lubricating Fluid, is the only approved lubricant for this purpose. The use of any other substance may very well have adverse effects that could contribute to a Flight Safety Hazard.

Seal Kit – Part No. SK589M1 (1 req'd.)

This seal kit is stowed in a plastic container in the case.

Seal – Part No. 410-7 (5 req'd.)

These spare seals are in the same container and stowed in the case.

Manual - Part No. 444-853-9

One manual is supplied with each kit.

The equipment is enclosed in a case assembly **Model No. NANUK960-853-9.**



AIR DATA ACCESSORIES KIT
MODEL No. ADA853-9
DC-9 AIRCRAFT
- Proprietary Information -

Customer Support

For information or to order replacement parts for this Kit or other types of aircraft, please contact us:

Nav-Aids Ltd.
2955 Diab Street
Montreal, QC.
H4S 1M1
Canada

Tel: 514 332-3077

Toll Free: 877-332-3055

Fax: 514 332-6711

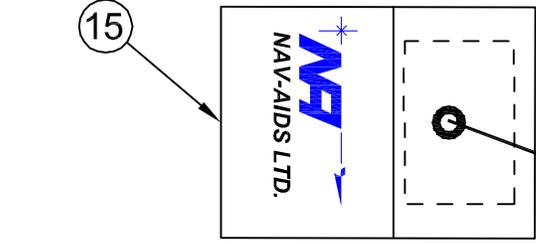
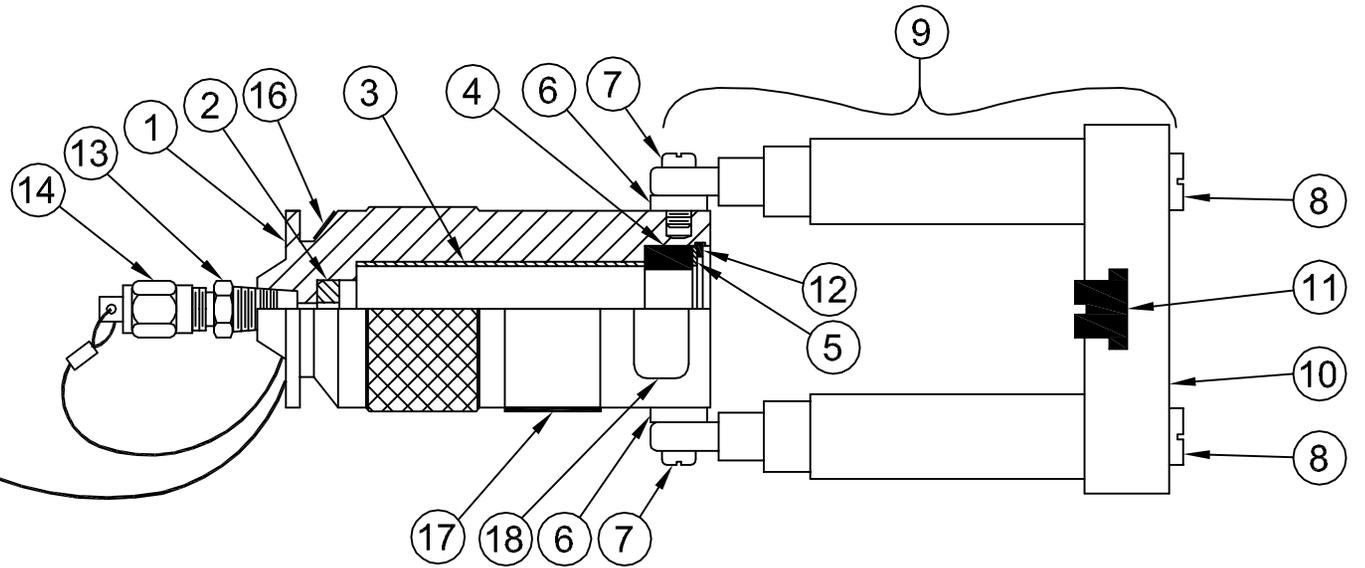
E-mail: info@navaidsltd.net

Website: www.navaidsltd.net

PROPRIETARY DOCUMENT



Revision History			
Rev.	Description	Date	Approved By
03	Title block revised, Item No. 18 P/N. modified.	May 20, 2009	B.D.G.
04	Item No. 13, Part Number revised.	Mar. 28, 2017	B.D.G.



Notes:
 -Seal Kit P/N. **SK589M1** - consists of Item No. 4 & 11.
 -Seal & Spacer Kit P/N. **SSK589M1** - consists of Item No. 2, 3, 4, 5, 11 & 12.
 -Dimensions are in inches.

18	1	589-83M1-3	Label , Identification
17	1	589-82	Label , Warning
16	1	589-81	Label , PITOT
15	1	589-91	Streamer Assembly
14	1	AN929-A3D	Blanking Cap Assembly
13	1	NASF-3	Nipple
12	1	589-20	Anderton Clip
11	1	589-142	Seal
10	1	589-41M1	Bracket
9	2	589-61M1	Telescopic Arm Assembly
8	2	589-141M1	Screw
7	2	589-162M1	Shoulder Screw
Item No.	Qty.	Part Number	Description

6	2	589-161M1	Spacer
5	1	589-111M1	Washer
4	1	589-171M1	Seal
3	1	589-51M1	Spacer
2	1	589-71M1	Snubber
1	1	589-11M1	Body
Item No.	Qty.	Part Number	Description



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2955 DIAB
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 CANADA H4S 1M1

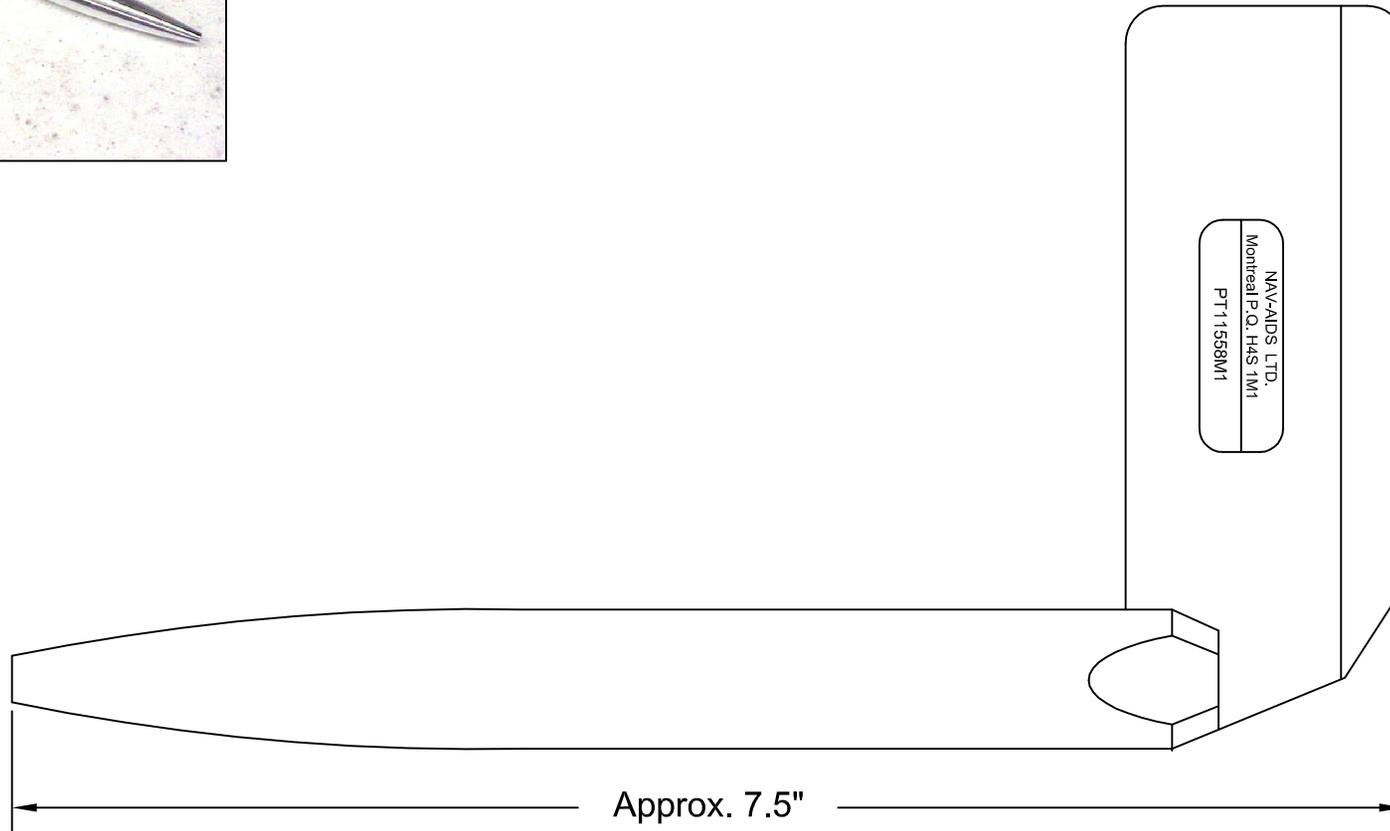
PITOT TEST ADAPTOR						
Size	CAGE Code	Checked By	Approved By	Date	Part Number	Rev. No.
A	38002	G.H.	J.D.G.	Nov. 1988	P15589M1-3	04

PROPRIETARY DOCUMENT



Revision History

Rev.	Description	Date	Approved By
01	Title block revised and redrawn.	July 25, 2005	J.D.G.



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 Montreal P.Q. H4S 1M1
 PT11558M1



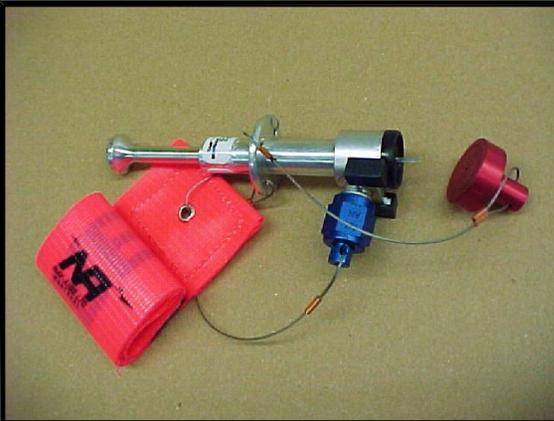
2955 DIAB
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 CANADA H4S 1M1

PRE-TEST PROBE

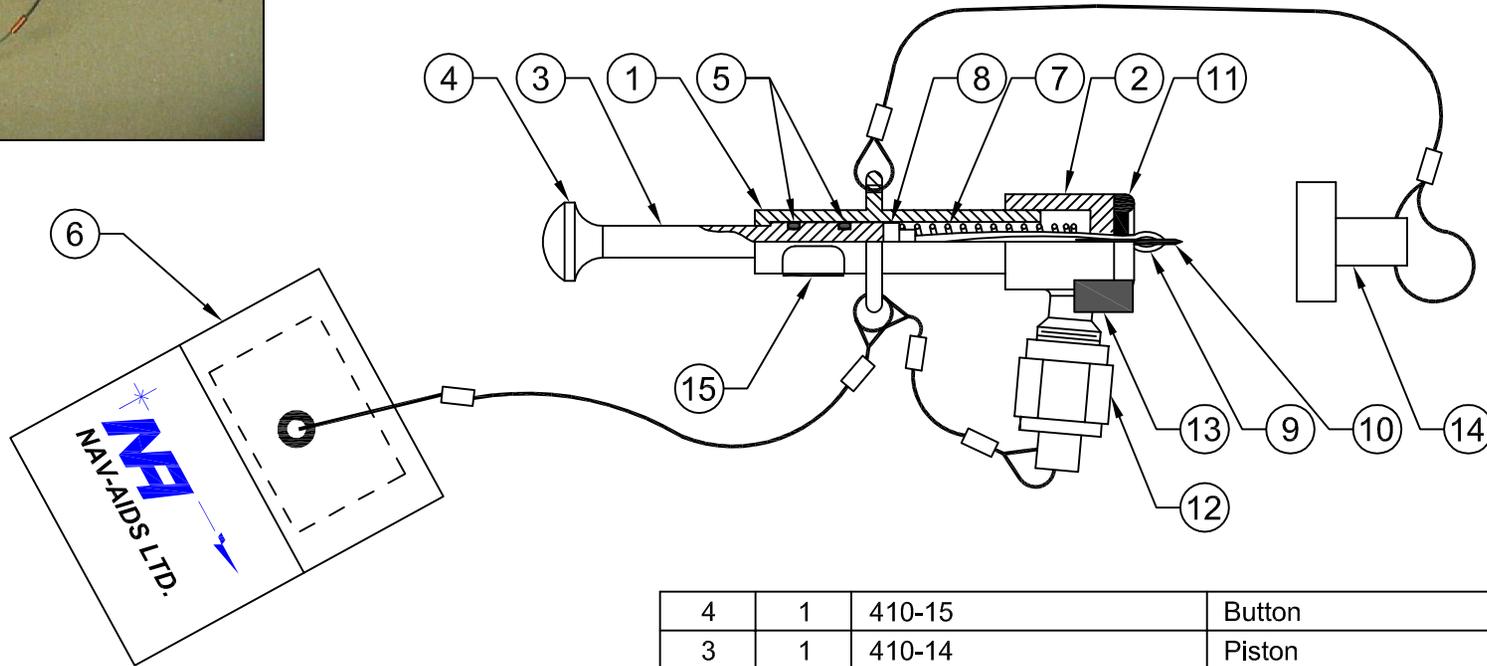
Size	CAGE Code	Checked By	Approved By	Date	Part Number	Rev. No.
A	38002	M. Freda	J.D.G.	Nov., 1988	PT11558M1	01

Dimensions are in inches

PROPRIETARY DOCUMENT



Revision History			
Rev.	Description	Date	Approved By
01	Title Block revised and redrawn.	Dec. 23, 2008	B.D.G.



15	1	410-90-4-92	Label , Identification
14	1	410-90-25	Protector Assembly
13	2	410-90-35	Boot
12	1	AN929-A4D	Blanking Cap Assembly
11	1	410-7	Seal
10	1	410-90-20	Guide
9	1	410-90-18	Jaw Assembly
8	1	410-17	Nut
7	1	410-16	Spring
6	1	410-19	Streamer Assembly
5	2	MS29513-8	"O" Ring Seals
Item No.	Qty.	Part Number	Description

4	1	410-15	Button
3	1	410-14	Piston
2	1	410-12	Head
1	1	410-11	Body
Item No.	Qty.	Part Number	Description

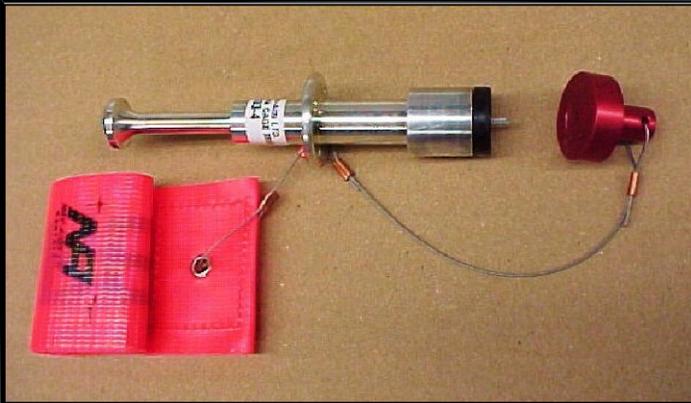


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CANADA H4S 1M1

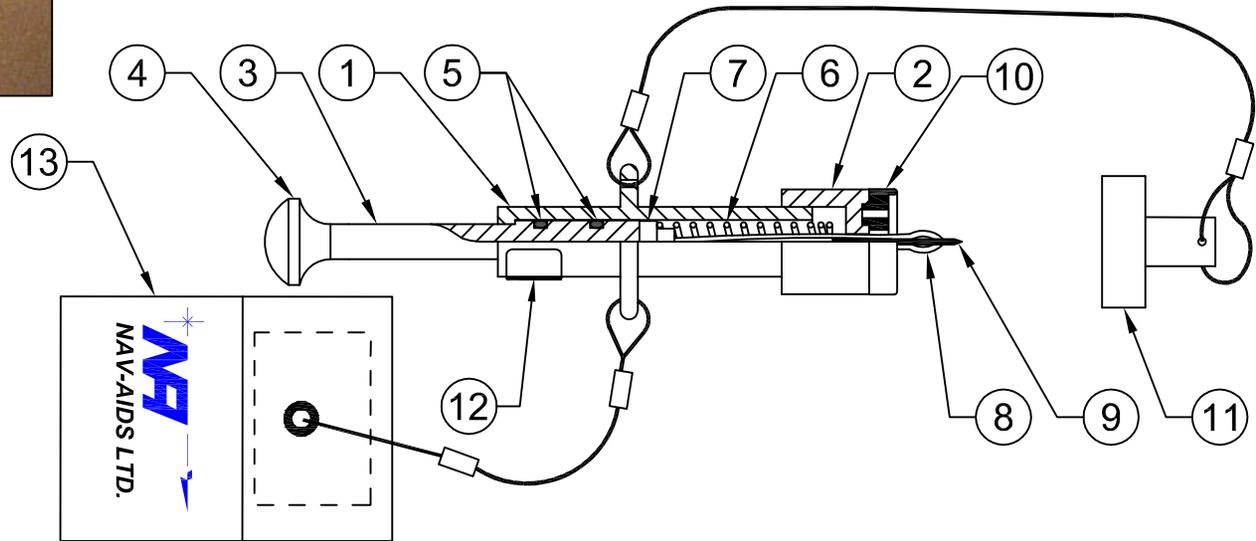
STATIC TEST ADAPTOR

Size	CAGE Code	Checked By	Approved By	Date	Part Number	Rev. No.
A	38002	G.H.	B.D.G.	Dec. 23, 2008	33410-90-4	01

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Revision History			
Rev.	Description	Date	Approved By
01	Title Block revised and redrawn.	Dec. 23, 2008	B.D.G.



13	1	410-19	Streamer Assembly
12	1	410B-90-92	Label , Identification
11	1	410-90-25	Protector Assembly
10	1	410-7	Seal
9	1	410-90-20	Guide
8	1	410-90-18	Jaw Assembly
7	1	410-17	Nut
6	1	410-16	Spring
5	2	MS29513-8	O-Ring Seals
4	1	410-15	Button
3	1	410-14	Piston
2	1	410B-12	Head Assembly
1	1	410-11	Body Assembly



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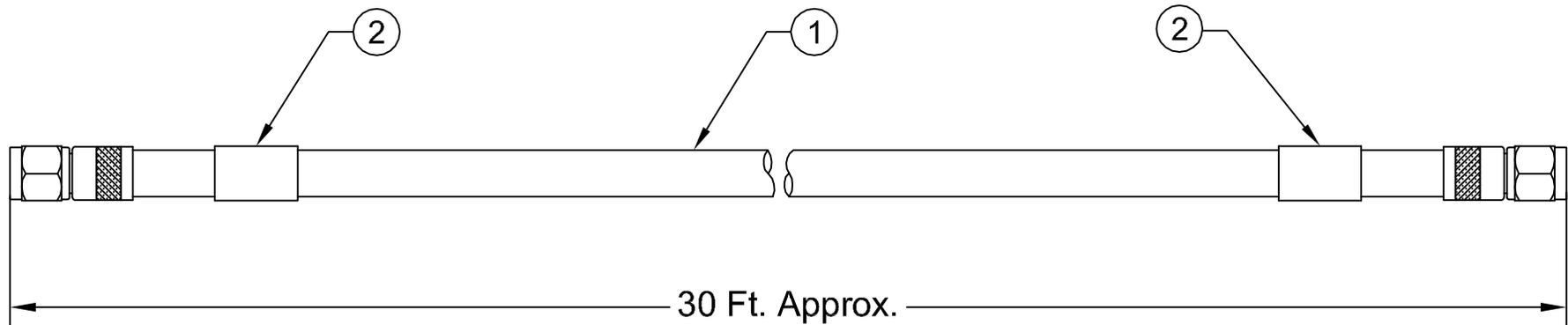
STATIC BLANKING ADAPTOR

Item No.	Qty.	Part Number	Description	Size	CAGE Code	Checked By	Approved By	Date	Part Number	Rev. No.
				A	38002	G.H.	B.D.G.	Dec. 23, 2008	33410B-90	01

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Revision History

Rev.	Description	Date	Approved By
01	Title block revised and redrawn.	July 21, 2005	J.D.G.
02	Title block revised and redrawn.	April 3, 2006	J.D.G.
03	Item No. 1, Part Number revised and Hose Fittings incorporated into Hose Assembly.	May 28, 2015	B.D.G.



2	2	WSLM33	Label , Identification
1	1	NAHA-3-360	Hose Assembly
Item No.	Qty.	Part Number	Description



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PITOT TEST HOSE ASSEMBLY

Size	CAGE Code	Checked By	Approved By	Date	Part Number	Rev. No.
A	38002	G.H.	J.D.G.	Nov., 1998	757-133	03

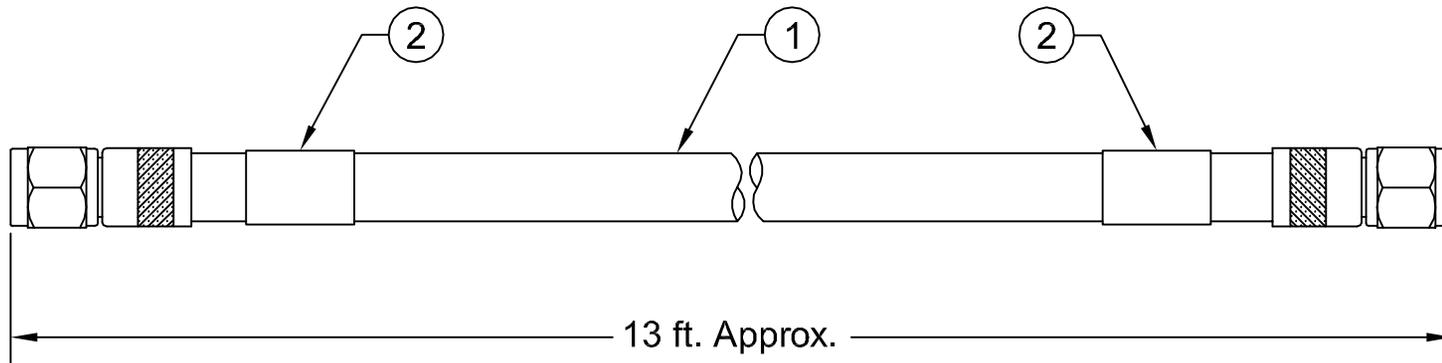
Note:

Last digits of Hose Assembly Part Number designates length of hose in inches.

PROPRIETARY DOCUMENT

Revision History

Rev.	Description	Date	Approved By
01	Title block revised and redrawn.	April 19, 2005	J.D.G.
02	Title block revised and redrawn.	April 3, 2006	J.D.G.
03	Item No. 1, Part Number revised and Hose Fittings incorporated into Hose Assembly.	May 28, 2015	B.D.G.



2	2	WSLM33	Label , Identification
1	1	NAHA-4-156	Hose Assembly
Item No.	Qty.	Part Number	Description



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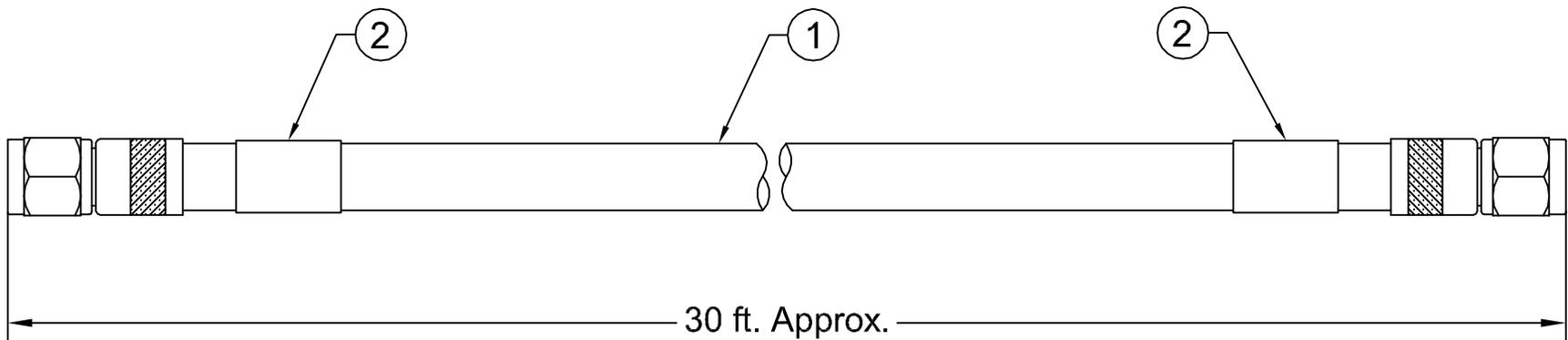
PITOT INPUT HOSE ASSEMBLY

Size	CAGE Code	Checked By	Approved By	Date	Part Number	Rev. No.
A	38002	G.H.	J.D.G.	Sept., 1993	757-214	03

Note:
Last digits of Hose Assembly Part Number designates length of hose in inches.

PROPRIETARY DOCUMENT

Revision History			
Rev.	Description	Date	Approved By
01	Title block revised and redrawn.	April 21, 2005	J.D.G.
02	Removed quantity required per kit in B.O.M.	July 27, 2005	J.D.G.
03	Title block revised and redrawn.	Feb. 22, 2006	J.D.G.
04	Item No. 1, Part Number revised and Hose Fittings incorporated to Hose Assembly.	June 25, 2015	B.D.G.



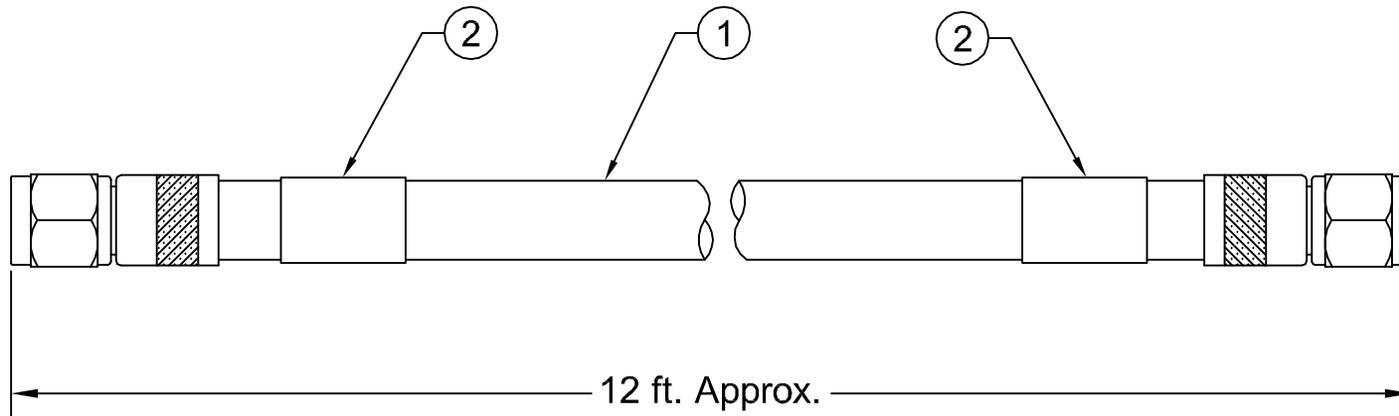
Notes:

- Static Adaptor P/N. **33410LH-90-4** must be attached to Static Test Hose Assembly P/N **767-212** .
- Last digits of Hose Part Number designates length of hose in inches.

2	2	WSLM33	Label , Identification			
1	1	NAHA-4-360	Hose Assembly			
Item No.	Qty.	Part Number	Description			
			2955 DIAB Montreal, Quebec CANADA H4S 1M1			
STATIC TEST HOSE ASSEMBLY						
Size	CAGE Code	Checked By	Approved By	Date	Part Number	Rev. No.
A	38002	G.H.	J.D.G.	Sept., 1993	767-212	04

PROPRIETARY DOCUMENT

Revision History			
Rev.	Description	Date	Approved By
01	Title block revised and redrawn.	May 12, 2005	J.D.G.
02	Title block revised and redrawn.	April 3, 2006	J.D.G.
03	Title block revised, Drawing name change.	Feb. 21, 2008	J.D.G.
04	Item No. 1, Part Number revised and Hose Fittings incorporated into Hose Assembly.	May 28, 2015	B.D.G.



2	2	WSLM33	Label , Identification			
1	1	NAHA-4-144	Hose Assembly			
Item No.	Qty.	Part Number	Description			
			2955 DIAB Montreal, Quebec CANADA H4S 1M1			
STATIC INPUT HOSE ASSEMBLY						
Size	CAGE Code	Checked By	Approved By	Date	Part Number	Rev. No.
A	38002	G.H.	J.D.G.	Nov., 1998	757-211	04

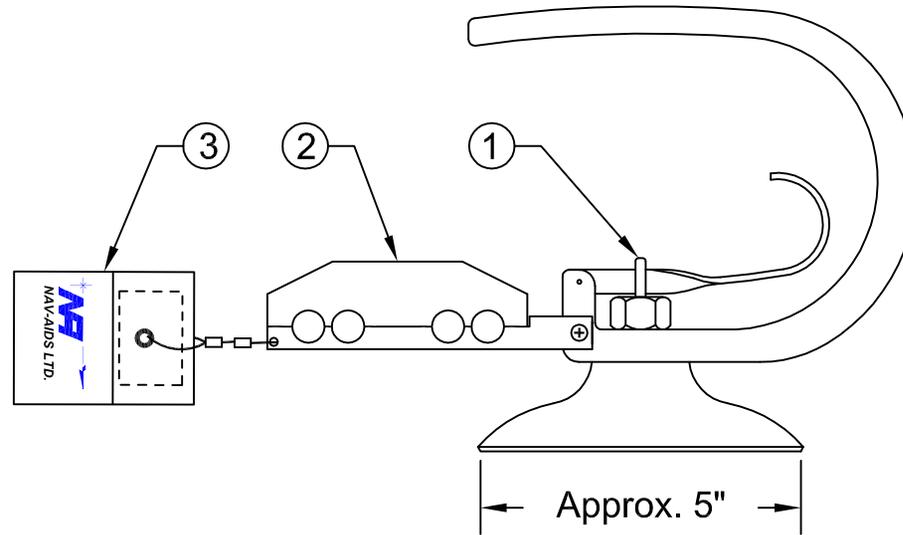
Note:

Last digits of Hose Assembly Part Number designates length of hose in inches.

PROPRIETARY DOCUMENT



Revision History			
Rev.	Description	Date	Approved By
01	Title block revised and redrawn.	April 11, 2005	J.D.G.



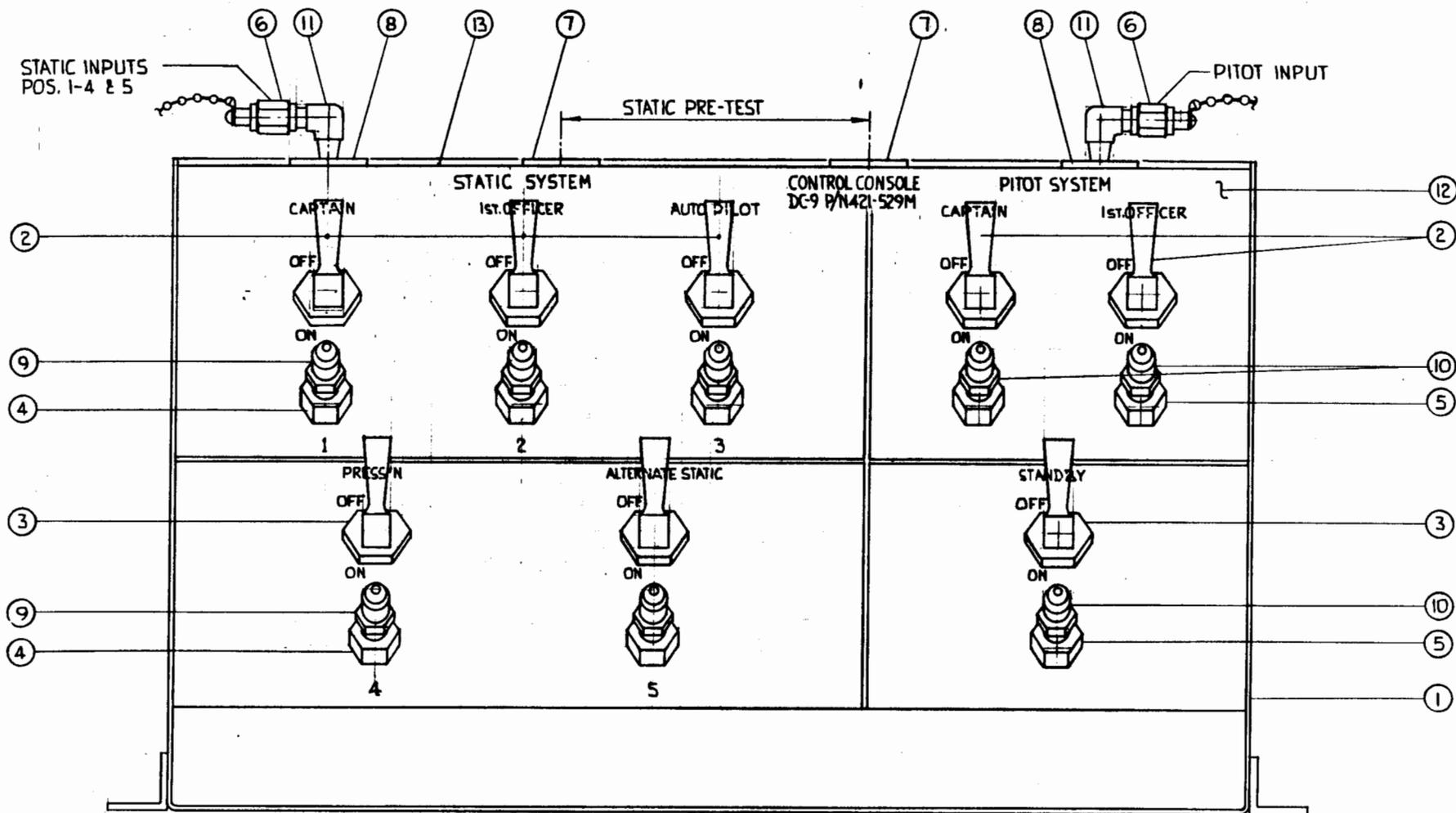
3	1	421-8971-3	Streamer Assembly
2	1	421-8971-2	Hose Retainer (Holds 4 hoses of size -4)
1	1	421-8971-1	5" Suction Cup Assembly
Item No.	Qty.	Part Number	Description



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CANADA H4S 1M1

VACU-GRIP ASSEMBLY

Size	CAGE Code	Checked By	Approved By	Date	Part Number	Rev. No.
A	38002	M. Freda	J.D.G.	Oct. 1989	421-8971	01

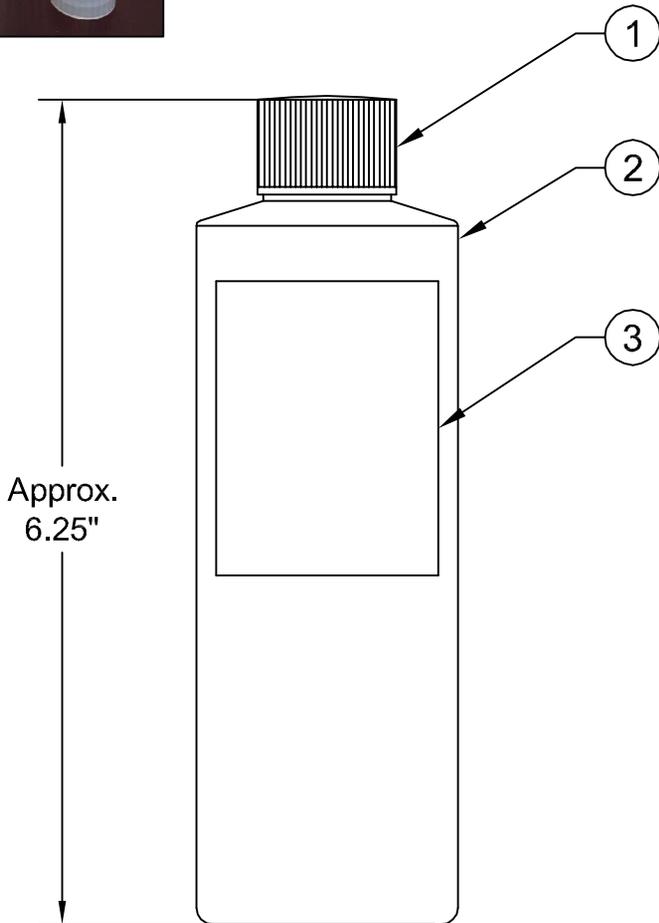
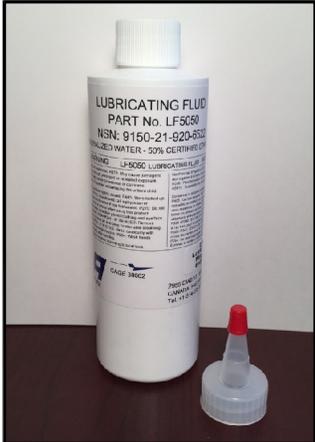


CONTROL CONSOLE ASSY-AIR DATA KIT DC-9
PART NO.421-529M

ITEM NO.	DESCRIPTION	PART NO.	NO./ASSY
1	CONSOLE	009-11	1
2	SELECTOR SWITCH	B-1GF2-A	5
3	SELECTOR SWITCH	B-1G54-A	3
4	SOCKET	009-35	5
5	SOCKET	009-351	3
6	DUST CAP	009-51	3
7	PRE-TEST ADAPTOR ASSY	009-131	4
8	PLATE ASSY	009-41	3
9	OUTLET	AN 816-4D	5
10	OUTLET	AN 816-3D	3
11	INLET	AN 822-4D	3
12	NAMEPLATE	009-T1	1
13	NAMEPLATE	009-B1	1
14	FLEXIBLE TUBING - NOT SHOWN 4AP-1/4 AS REQ'D		

NAV-AIDS LTD. 2955 DIAB ST. MONTREAL P.Q. H4S-1M1 CANADA TEL. 514-322-3077	
TITLE CONTROL CONSOLE ASSY AIR DATA KIT DC-9	
PART NO. 421-529M	

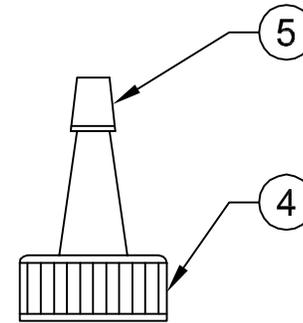
PROPRIETARY DOCUMENT



Note:
Dimensions are in inches.

Revision History

Rev.	Description	Date	Approved By
02	Photo added.	Aug. 25, 2004	J.D.G.
03	Item Name Corrected	Jan. 28, 2011	B.D.G.
04	Lubricating Fluid Label revised.	Dec. 20, 2017	B.D.G.



5	1	Cap
4	1	Distributing Cap
3	1	Label
2	1	8 oz. Bottle
1	1	Cap

Item No.	Qty.	Description
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CANADA H4S 1M1

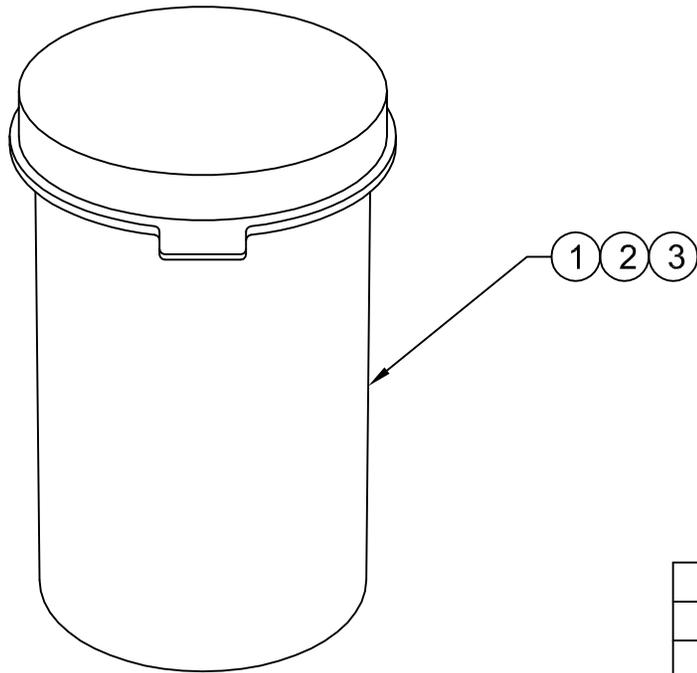
LUBRICATING FLUID
NSN: 9150-21-920-6522

Size	CAGE Code	Checked By	Approved By	Date	Part Number	Rev. No.
A	38002	G.H.	J.D.G.	Aug. 25, 2004	LF5050	04

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Revision History

Rev.	Description	Date	Approved By



3	5	410-7	Seal
2	1	SK589M1	Seal Kit
1	1	30 DR 100	Container
Item No.	Qty.	Part Number	Description



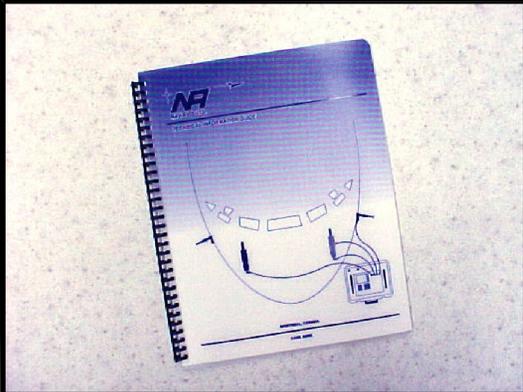
2955 DIAB
Montreal, Quebec
CANADA H4S 1M1

SEAL

Size	CAGE Code	Checked By	Approved By	Date	Part Number	Rev. No.
A	38002	G.H.	J.D.G.	July 6, 2006	SK589M1 & 410-7	0

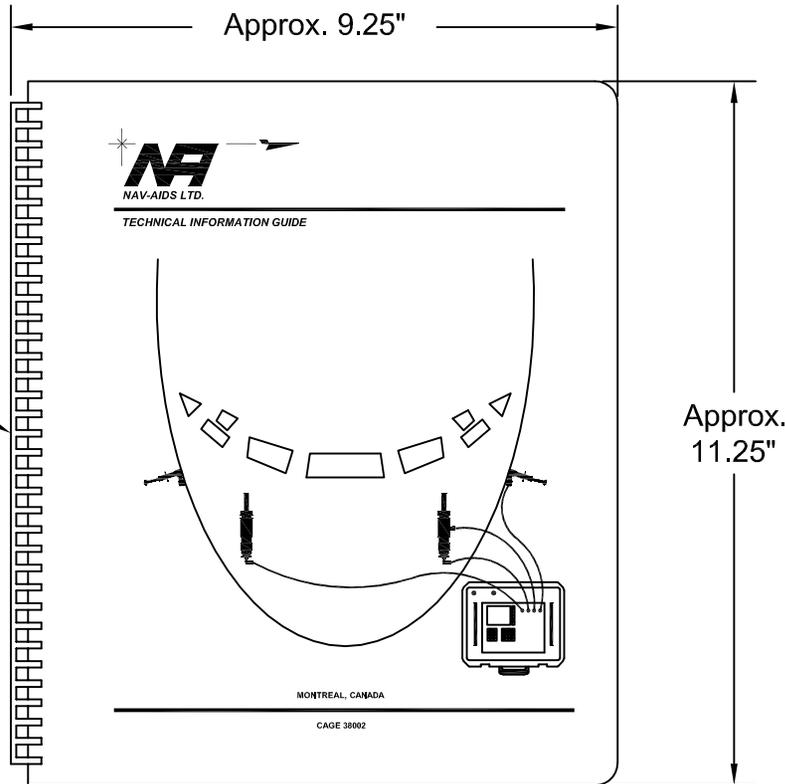
Note:
Dimensions are in inches.

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Revision History			
Rev.	Description	Date	Approved By

Spiral Type Binding



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MANUAL (INSTRUCTIONS AND PARTS LISTS)

Size	CAGE Code	Checked By	Approved By	Date	Part Number	Rev. No.
A	38002	G.H.	J.D.G.	July 6, 2006	444-853-9	0

Note:
Dimensions are in inches.