

CNG Fuel System Parts Manual

160 DGE Behind the Cab (BTC) System, 4 Cylinder
Agility Fuel Systems 25600000 and 25635000
ENP-335, Rev. C
February 27, 2023

Proprietary Statement

The information provided within this manual is proprietary and confidential. All prior versions of this manual, including updates and revisions forwarded separately, are proprietary. The information provided by Agility Fuel Systems to its customers and clients is solely for the use of those customers and clients. No portion of this manual may be reproduced or distributed without express written consent of Agility Fuel Systems. Agility Fuel Systems reserves the right to utilize the intellectual property contained within this publication as content for any other publication produced by Agility Fuel Systems.

Agility Fuel Systems gives express consent to our customers to utilize portions of this manual, or the manual in its entirety, for the purposes of providing their customers and clients with information pertaining to the Agility Fuel Systems liquefied natural gas (LNG) and compressed natural gas (CNG) fuel storage system as used on their vehicles with appropriate acknowledgement of copyright.

This manual replaces any prior version. Any information reproduced by our customers for their use, or that of their customers and clients, should be drawn from this manual.

Notes

1. Numerals point to system components
2. Contact Agility Fuel Systems Product Support for information on the following items
   a) Structural parts
   b) Chassis panels, cabinets and cabinet hardware
   c) Internal frames and superstructures
   d) Pipes and tubing
   e) Wire harnesses
   f) Tanks/cylinders
3. When contacting Product Support, please have the following information ready for efficient service:
   a) Unit serial number
   b) VIN
   c) Date of purchase or installation

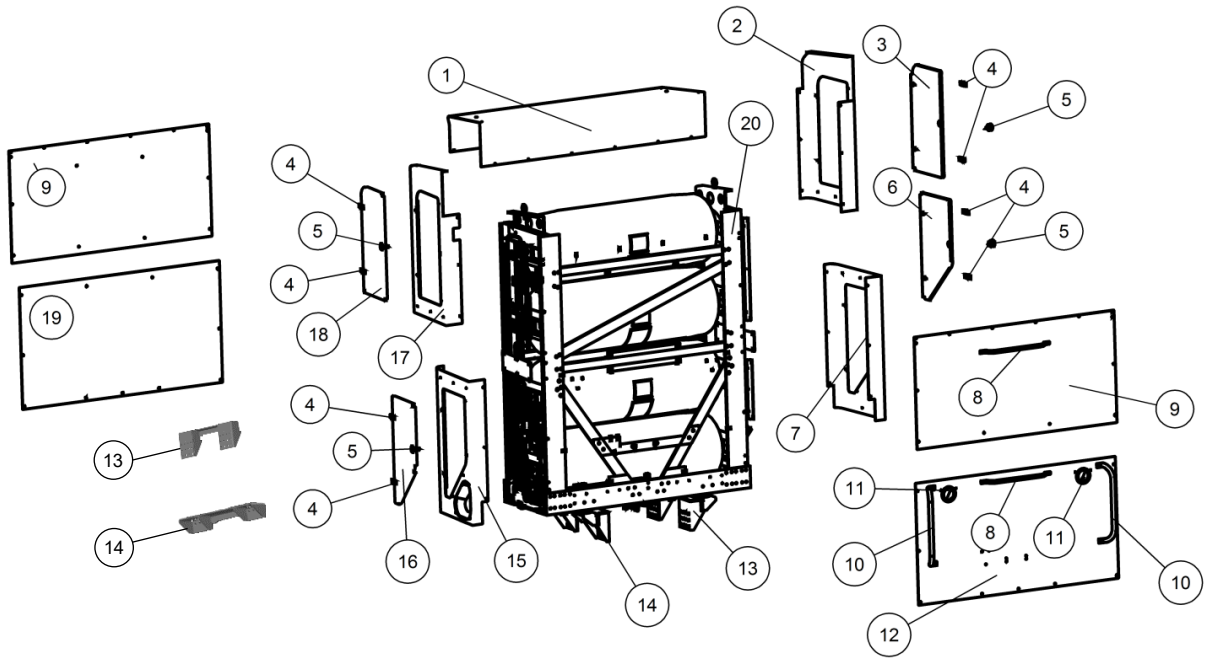
CAUTION

All replacement parts must adhere to the accepted standards and ratings as specified by Agility Fuel Systems. The usage of any part that is not approved by Agility Fuel Systems is not recommended and may compromise the integrity and safety of the system.
Do not remove components from original packaging until absolutely necessary. Any components that are to be reinstalled must be thoroughly cleaned, inspected and stored in a satisfactory manner until reinstallation.

Agility Fuel Systems
1815 Carnegie Ave
Santa Ana, CA 92705 USA
Product Support
949-267-7745
support@agilityfs.com
www.agilityfs.com

Revision	Description	Author	Approved By	Date
--	Initial Release	W. Yoshida	C. Forsberg	12/1/2014
A	Revised HP filter	W. Yoshida	W. Yoshida	4/2/2015
B	Clarified capacity – 160 DGE	W. Yoshida	C. Forsberg	4/28/2015
C	ADDED: p/n 25653000; UPDATED: HP fuel filter bowl torque to 50 ft-lbs	C. Grasso	J. Wainz	2/27/2023

Figure 1: 160 DGE Behind the Cab (BTC) Systems 25600000 and 25653000

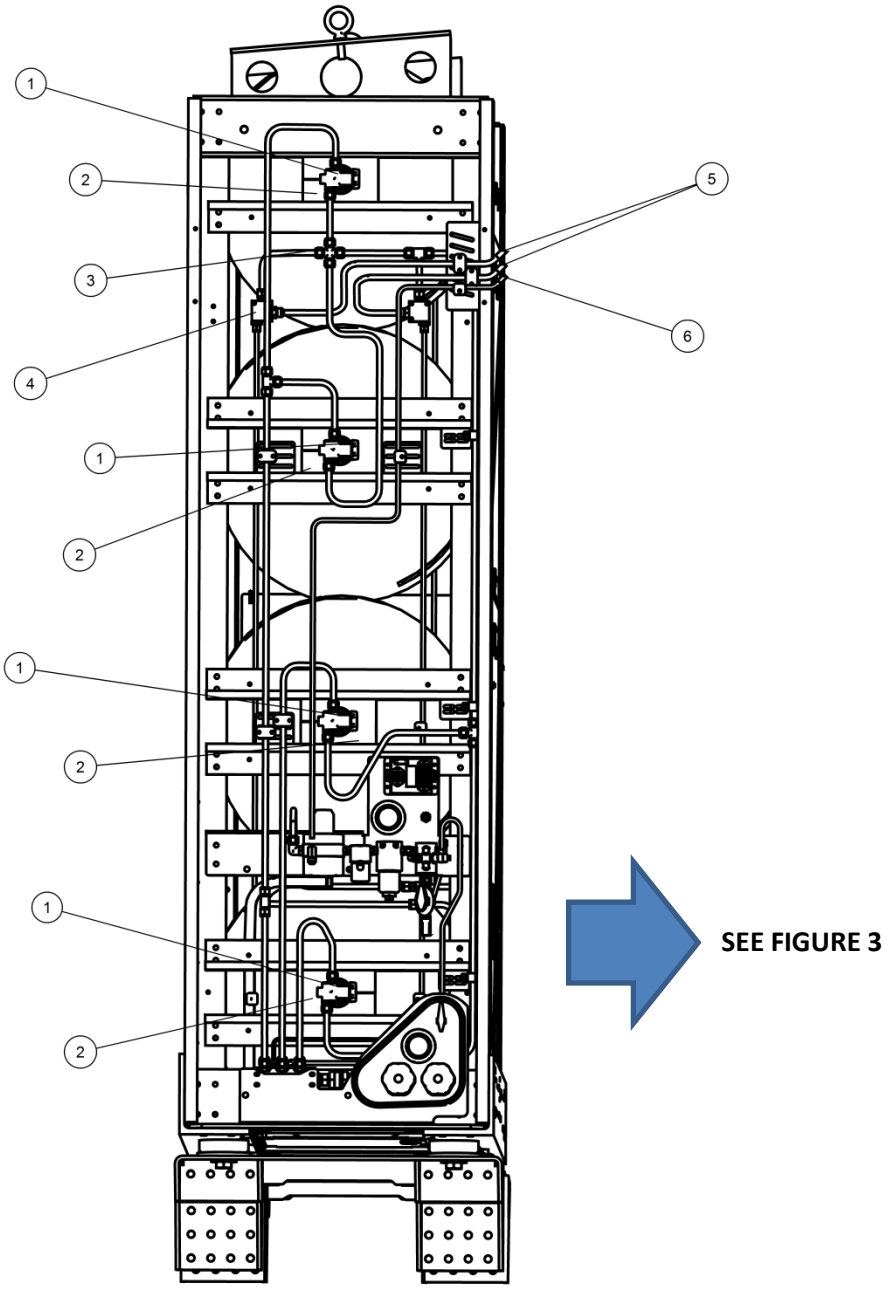


⚠WARNING

If vehicle has been in an accident, cylinders and fuel system must be inspected by a qualified inspector.

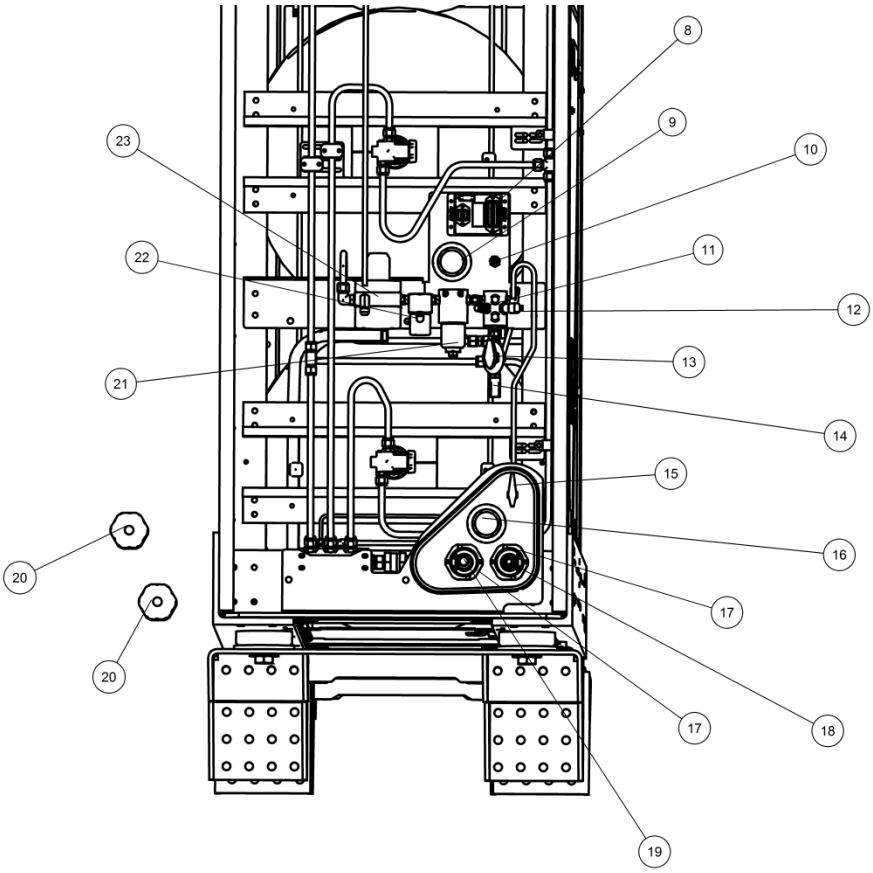
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTES
1	1	24600318	TOP COVER	
2	1	25600321	UPPER SIDE COVER	
3	1	25600312	UPPER DOOR	
4	8	10701013	HINGES	
5	4	10701016	LATCH, QUARTER TURN	
6	1	25600314	LOWER DOOR	
7	1	25600308	LOWER SIDE COVER	
8	2	10702188	GRAB HANDLE, HORIZONTAL SLIDE BAR	
9	2	25600305	UPPER FRONT AND REAR COVERS	QTY:1 25635000 only
9	1	25600306	UPPER FRONT COVER	25635000 only
10	2	10702187	GRAB HANDLE	
11	2	10400104	UTILITY LIGHT, FLUSH MOUNT	
12	1	25600304	LOWER REAR COVER	
13	2	24600041	FRAME RAIL MOUNTING BRACKET ASSEMBLY	25600000 only
14	2	24600031	FRAME RAIL MOUNTING BRACKET ASSEMBLY	25635000 only
15	1	25600300	BOTTOM SIDE COVER	
16	1	25600313	LOWER DOOR	
17	1	25600309	UPPER SIDE COVER	
18	1	25600311	UPPER COVER DOOR	
19	1	25600306	LOWER FRONT COVER	
20	1	25600002	SYSTEM FRAME ASSEMBLY	

Figure 2: 160 DGE BTC System 25600000 and 25653000, Valve End View



ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	10300466	MANUAL CYLINDER VALVE
2	4	20100184	NECK BLOCK, VALVE END
3	1	10200231	CROSS, 1/2-IN.
4	2	25600417	PRESSURE RELIEF DEVICE (PRD)
5	2	10702028	CAP, 1/2-IN., UV PROTECTED
6	1	10702030	CAP, 3/8-IN., UV PROTECTED

Figure 3: 160 DGE BTC System 25600000 and 25653000, Control Panel View

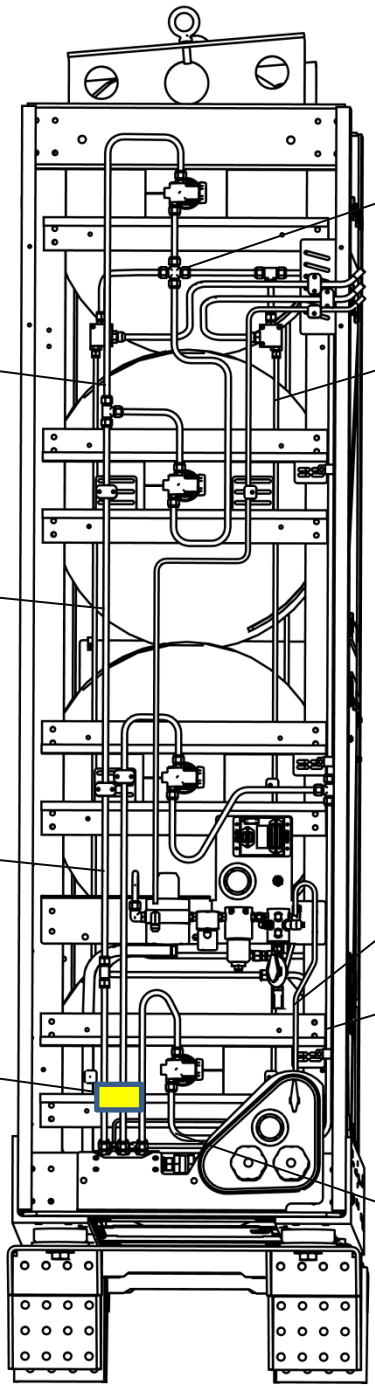


ITEM	QTY	PART NUMBER	DESCRIPTION
8	1	20101100	AGILITY FUEL SYSTEMS ECU – CONTACT PRODUCT SUPPORT TO ORDER LATEST VERSION
9	1	10300424	LOW PRESSURE GAUGE
10	1	10300212	QUICK CONNECT, 3600 PSI, CNG, 1/4 FEMALE NPT
11	1	10300201	BLEED VALVE, 7/16-20 MALE
12	1	10404019	TRANSDUCER
13	1	10300210	3-WAY VALVE
14	1	10300214	MUFFLER
15	1	10300158	BALL VALVE
16	1	10300427	HIGH PRESSURE GAUGE
17	2	24300006	RECEPTACLE BASE
18	1	10300713	RECEPTACLE, 1500 SCFM, MALE 7/8-14
19	1	10300711	RECEPTACLE, 5000 SCFM, MALE 7/8-14
20	2	24300007	FUEL CAP
21	1	20100008	HIGH PRESSURE FILTER
22	1	10300441	SOLENOID VALVE, 12 VOLT
23	1	10300207	REGULATOR

Figure 4: 160 DGE BTC System 25600000 and 25653000, Decal Placement, Valve End

WARNING

High pressure is ALWAYS present in PRD lines and cannot be isolated with valves. System MUST be depressurized and defueled completely before servicing.



CAUTION
Live High Pressure PRD Line
DECAL 10602157
[ALL 4 LINES ON CROSS]

CAUTION
High Pressure
CNG Fuel Line
DECAL 10600076

DECAL
10602157

DECAL
10600076

DECAL
10600076

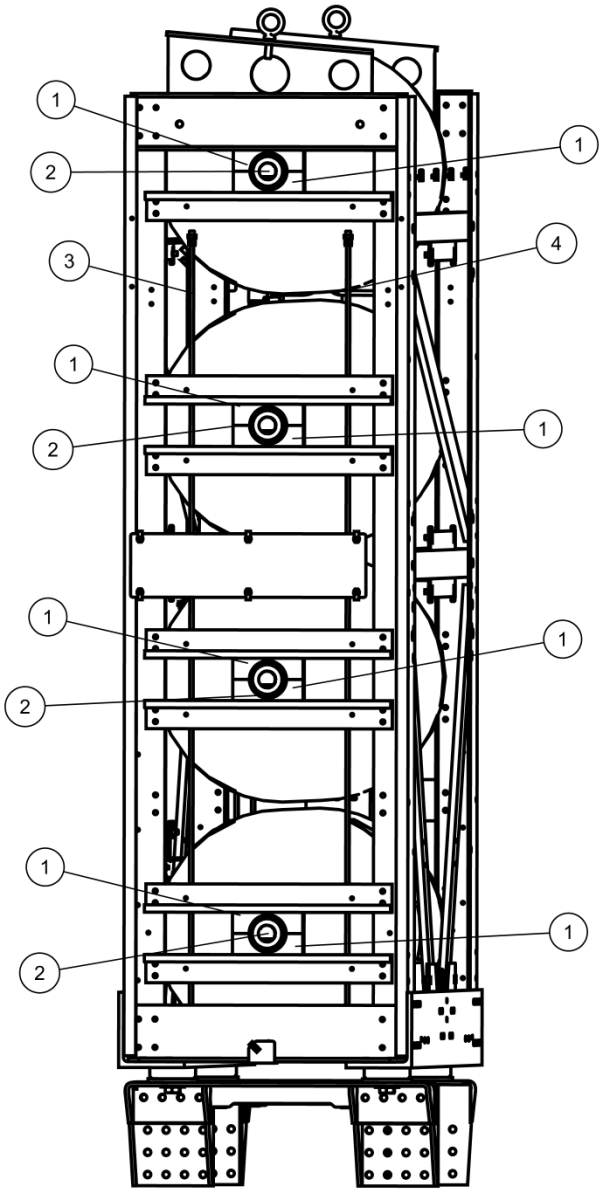
DECAL
10600076

DECAL
10602157

DECAL
10600076
[3 LINES]

DECAL
10602157

Figure 5: 160 DGE BTC System 25600000 and 25653000, PRD End



ITEM	QTY	PART NUMBER	DESCRIPTION
1	8	20100199	PRD END NECK BLOCK HALF
2	4	20100197	NECK BLOCK BUSHING
3, 4	1	25600417	PRESSURE RELIEF DEVICE (PRD)
5	1	20100113	END PLUG

Figure 6: 160 DGE BTC System 25600000 and 25653000, Decal Placement, PRD End

WARNING

DO NOT disturb PRD activation lines – call Agility Fuel Systems Product Support if any damage is observed.

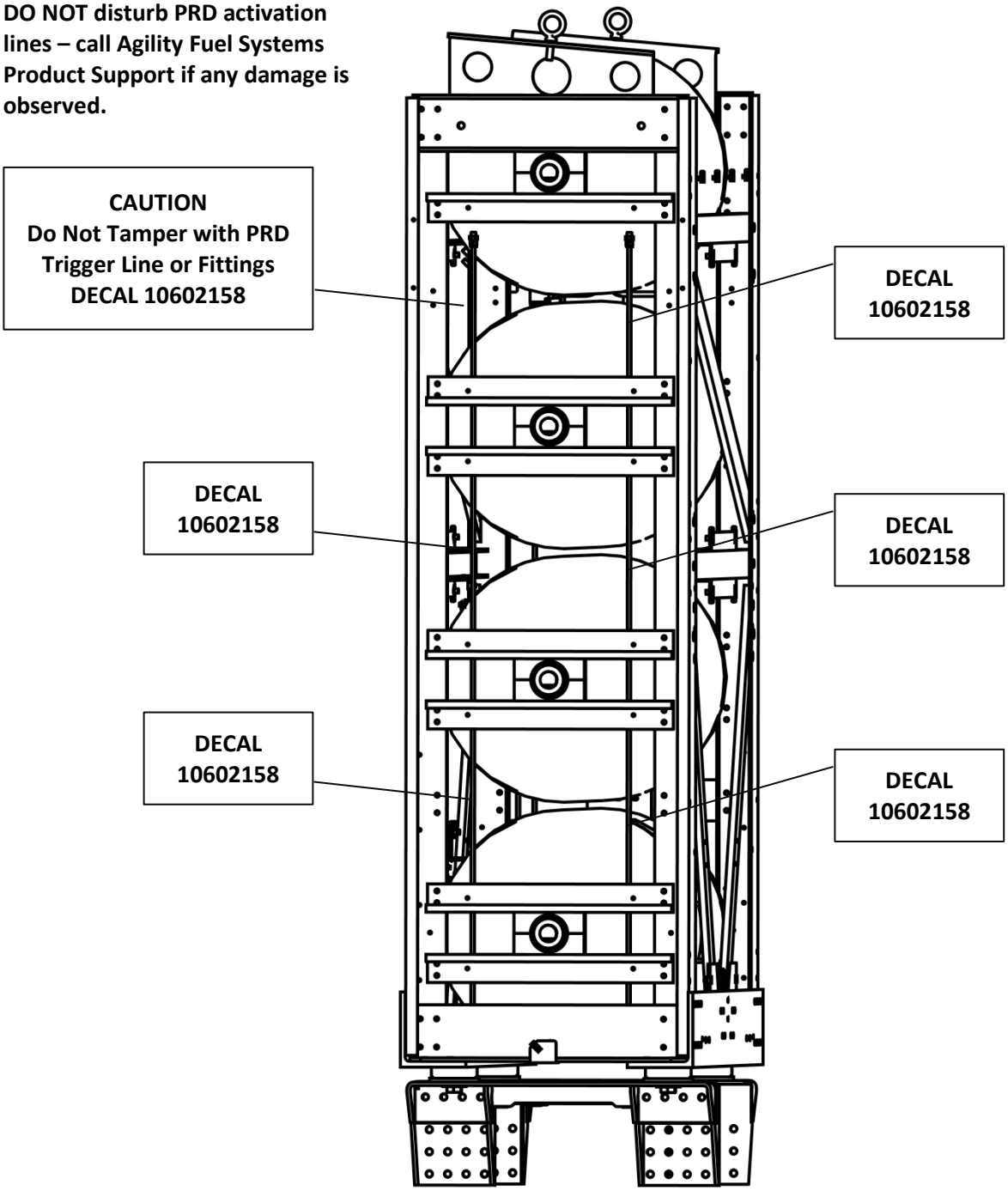
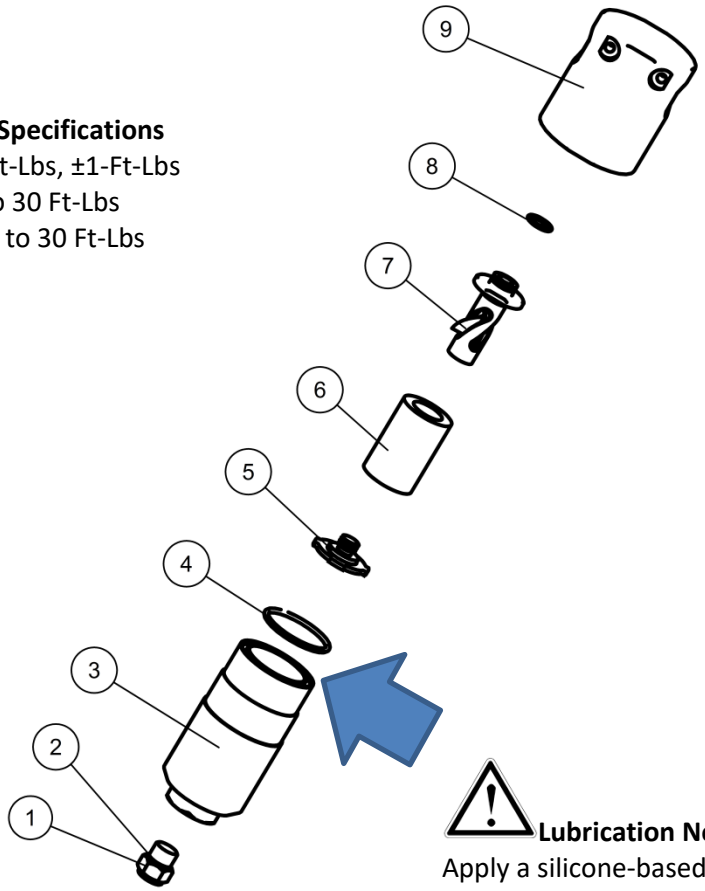


Figure 7: High Pressure Filter

Torque Specifications
Filter Bowl: 50 Ft-Lbs, ±1-Ft-Lbs
Drain Plug: 25 to 30 Ft-Lbs
In/Out Ports: 25 to 30 Ft-Lbs



Lubrication Note
Apply a silicone-based spray lubricant to the filter bowl threads only. DO NOT allow lubricant to contaminate the filter or O-rings.

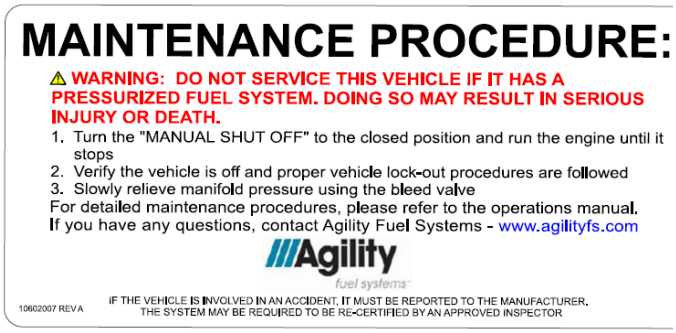
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	10200266	9/16-IN. HEX PLUG
2	1	10500014	DRAIN PLUG O-RING
3	1	20100107	FILTER BOWL
4	1	10500022	FILTER BOWL O-RING
5	1	20100110	ELEMENT BASE
6	1	20100109	FILTER ELEMENT KIT
7	1	20100108	ELEMENT HOUSING
8	1	10500014	O-RING
9	1	20100106	FILTER HOUSING

NOTE
A high pressure filter element replacement kit is available, which includes the filter bowl O-ring (4), filter element (6) and O-ring item 8.
Single element kit: Part number 20100109
Pack of 10: Part number 20100345

HP Filter O-Ring Kit 10500023
One each O-rings for drain plug, filter bowl and element holder.

Appendix 1: Warning Decals

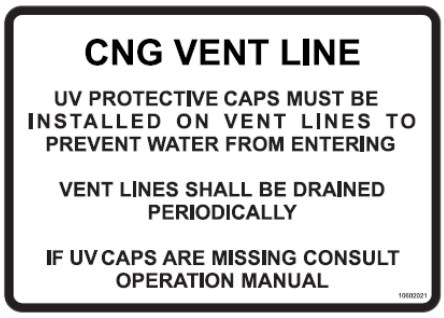
Various warning decals are used in Agility Fuel Systems CNG systems. The decals are compliant to applicable regulations or guidelines. Decals on your vehicle may vary depending on the fuel system configuration and your location. The graphics are for reference only and are not to scale. Decals may be ordered from Agility Fuel Systems Product Support.



Part Number 10602007



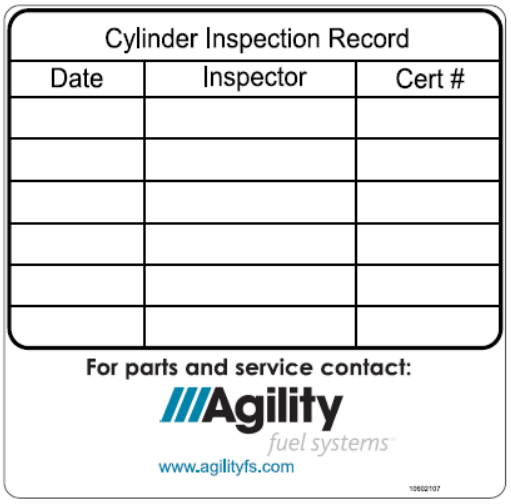
Part Number 10602105



Part Number 10602021



Part Number 10602032 (Back of Cab systems only)



Part Number 10602107



Part Number 10602108



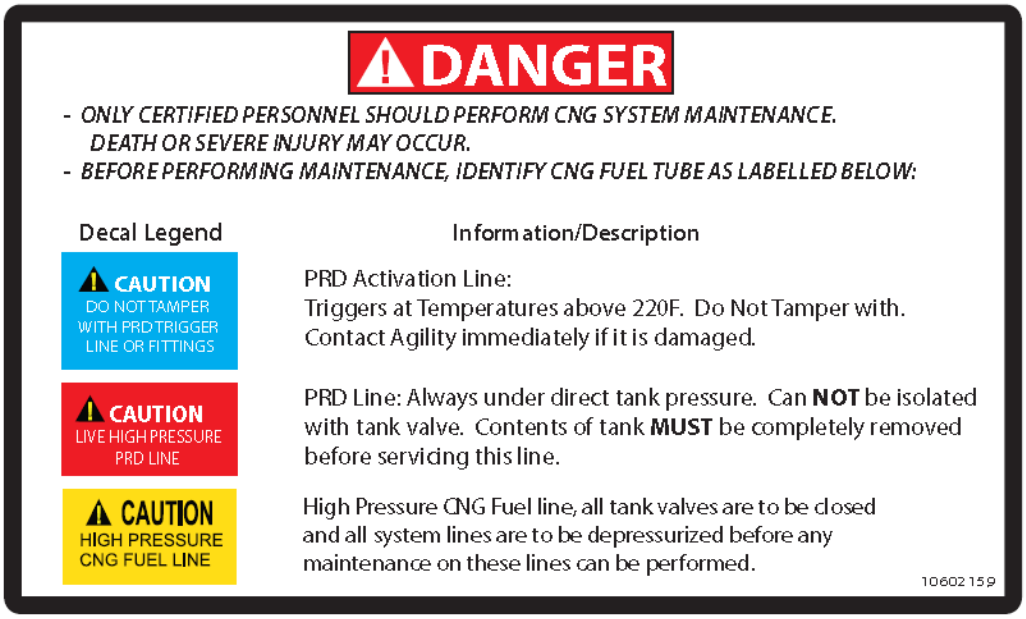
Part Number 10602157



Part Number 10602158



Part Number 10600076



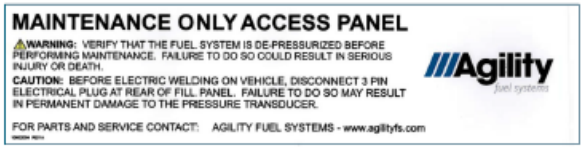
Part Number 10602159



Part Number 10602170



Part Number 10602019



Part Number 10602004