



**Club Car Carryall ROPS Cab**  
**2P Door and Rear Window Assembly**  
**p/n: 47690985001**  
**Requires Basic Cab p/n: 47587415003 or 47587415004**  
**compatible with Carryall models 300, 500, 510, 550, 700 and 710**

The contents of this manual are the property of the owner.  
 Be sure to leave with the owner when installation is complete.



## CAB COMPONENTS AND OPTIONS:

- **47587415001**.....Kit, Cab, Complete, Curtis
- **47587415003**.....Kit, Basic Cab, Curtis
- **47587415004**.....Kit, Basic Cab, LSV, Curtis
- **47690989001**.....Kit, Windshield, AS1, Curtis
- **47587416001**.....Kit, Mirror, Interior, Curtis
- **47587417001**.....Kit, Mirror Set, Side, Curtis
- **47587420001**.....Kit, Console, Overhead, Curtis
- **47587420002**.....Kit, Console, Overhead W/O Fans, Curtis
- **47587421001**.....Kit, Dome Light, Curtis\*
- **47587418001**.....Kit, Beacon, Curtis\*
- **47587419001**.....Kit, Work Light, Front, Curtis\*
- **47587419002**.....Kit, Work Light, Rear, Curtis\*
- **47693131001**.....Kit, Windshield Washer, Curtis\*
- **47696841001**.....Kit, Bed Interlock (for CA700 and CA710), Curtis

\* Requires 47587420001 or 47587420002 (Overhead Console)

## Approximate Installation Time \*

Experienced Dealer Technician – 30 minutes
Average Dealer Technician – 45 minutes
Do-It-Yourself – 60 minutes

## BEFORE YOU START:

- Read and understand all instructions before beginning.
- To assist with the cab installation, leave all bolts loose for later adjustment unless otherwise specified.
- Use caution to avoid damaging the factory installed threaded inserts. Begin the bolt engagement by hand to guard against potential cross threading.

**SAFETY INFORMATION:**

**⚠ WARNING:** Cabs and general accessories add additional weight to the base vehicle. Deduct the accessory's total weight from the vehicle's rated capacity including driver and passenger. Never operate the vehicle outside of its rated weight capacity.

- Weight of this door kit is approximately 115 lbs. (52 kg.)

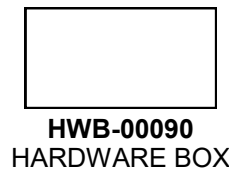
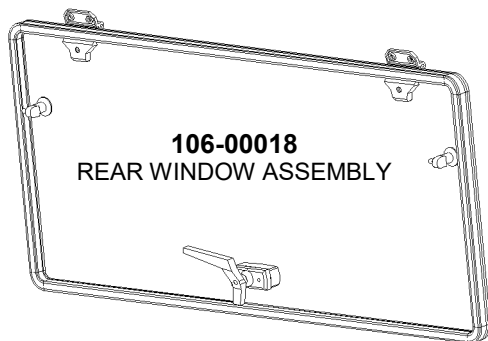
**⚠ WARNING:** Exposure to Carbon Monoxide can cause illness, serious injury or death.

Never operate vehicle if suspicious of Carbon Monoxide. Inspect exhaust system for leaks monthly. Leaks can result from loose connections, corrosion, cracks or other damage to the exhaust manifold. If leaks are found, repair or replace exhaust system. Do not use vehicle until repair or replacement is complete.

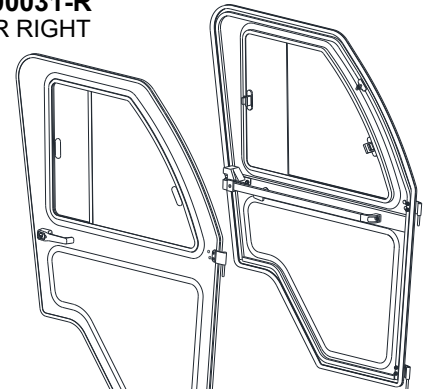
**A Tailpipe extension is supplied with every cab and must be installed onto gasoline vehicles to avoid illness, serious injury or death from Carbon Monoxide.**

**⚠ WARNING:** Serious injury or death:

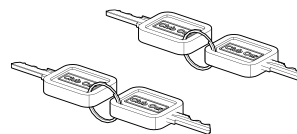
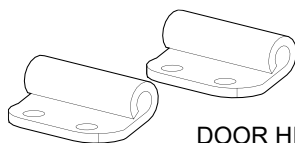
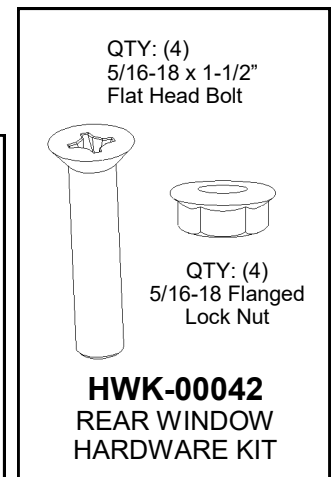
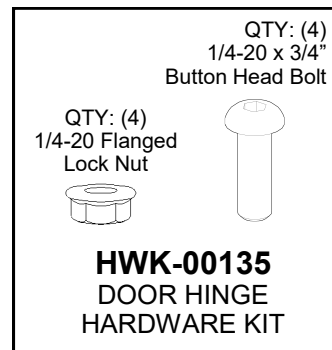
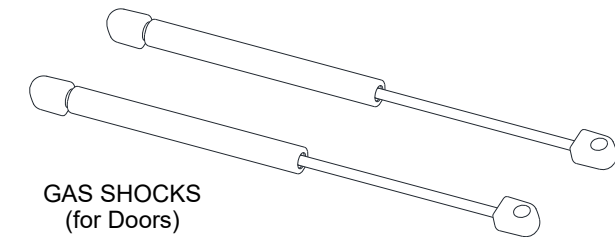
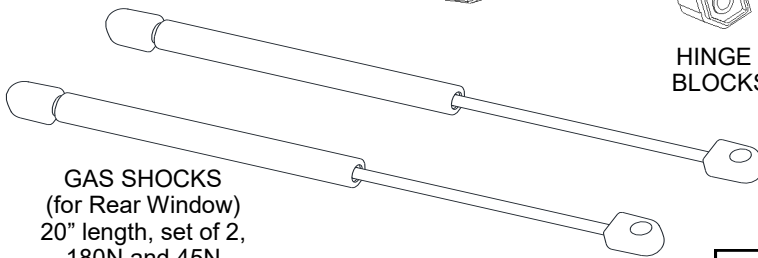
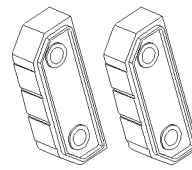
- This cab enclosure does not provide protection from flying objects including golf balls.
- This cab enclosure does not provide protection from lightning. When lightning threatens, take cover and do not operate vehicle.

**PARTS INCLUDED IN THIS KIT:**

**107-00031-R**  
DOOR RIGHT



**107-00031-L**  
DOOR LEFT



**TO ORDER SERVICE (REPLACEMENT) PARTS.**  
**SEE PAGE 6**

**BEFORE YOU BEGIN:**

- This kit requires installation of a basic cab kit to be completed before proceeding:
  - Basic ROPS cab (p/n 47587415003)  
or
  - LSV Basic Cab (p/n 47587415004)

**Tools Required:**

- Ratchet with 1/2" socket.
- 1/2" open-end wrench
- #3 Phillips Screwdriver

**1. REAR WINDOW INSTALLATION:****1.1 QTY Hardware Required:**

- (4) 5/16-18 x 1-1/2" Flat Head Phillips Bolts
- (4) 5/16-18 Flanged Hex Lock Nuts

Install a hinge spacer block and two flat head bolts onto each hinge of the Rear Window (**Fig. 1.1**). With assistance, place the Rear Window onto the Upper Rear Panel and hand-tighten four nuts onto the bolts.

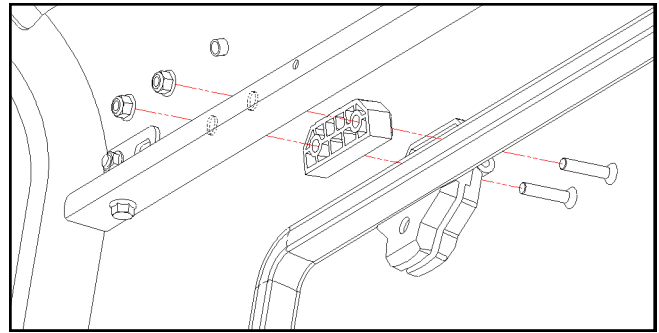
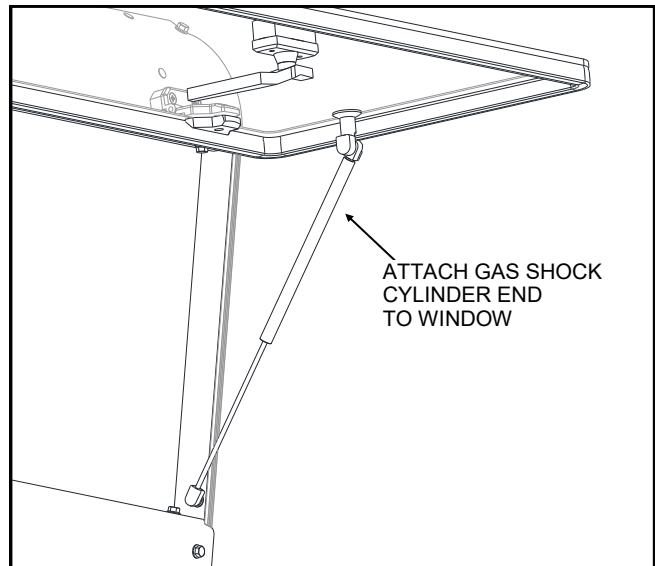
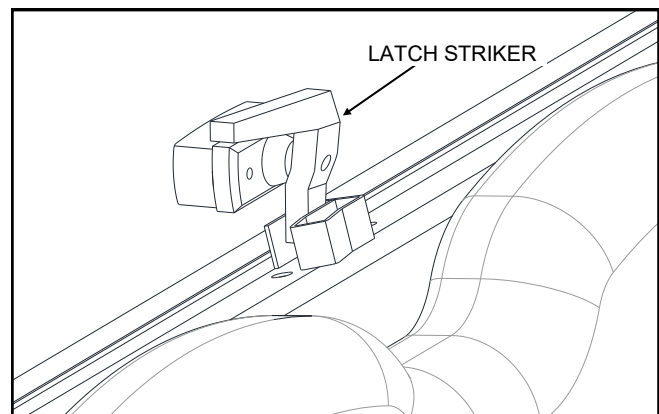
- 1.2 Close and latch the Rear Window. With assistance, lift each side of the window and hand tighten the hinge bolts, with the bolts approximately centered in the slots. Check for fit against the latch and relative to the frames along the sides. If necessary, loosen the hinge bolts and adjust as needed. Tighten the hinge bolts to 7 ft.-lbs. (9.5 N-m).

- 1.3 Select the two longer gas shocks (20" long). Open the window to slightly less than 90°. Install a Gas Shock onto the Ball Studs of the frame and window (**Fig. 1.3**), on both sides of the window. The cylinder end must be attached to the Rear Window as shown to ensure seals stay lubricated.

**NOTE:** This kit includes two Gas Shocks of two different strengths (180 Newtons and 45 Newtons). Either shock can be installed to either side with no effect on performance.

**OPERATION:**

- For venting of the Rear Window, secure the latch into the outer slot of the latch striker on the rear panel (**Figure 1.4**).
- The gas shocks will hold the Rear Window fully open upon releasing the latch, and the Carryall can be operated with the window fully open.
- Except in the case of 700 and 710 vehicles, the Rear Window will not interfere with the Cargo Bed in the vented or fully open position. For 700 and 710 vehicles, an optional rear window, bed interlock system, part number 47696841001 can be purchased.

**Figure 1.1: Rear Window Hinges****Figure 1.3: Rear Window Gas Shocks****Figure 1.4: Rear Window Vented Position**

**Tools Required (for adjustments only):**

- Ratchet with 3/8", 7/16" and 1/2" sockets.
- 3/8", 7/16" and 1/2" open-end wrenches
- Two 3/4" open-end wrenches.
- 5/32" Allen wrench or driver.
- #3 Phillips Screwdriver
- Grease

**2. DOOR INSTALLATION:**

**NOTE:** If side mirrors have previously been installed to the cab, remove them and reinstall the supplied hinge sleeves in their location. The mirrors will be installed to the holes provided in the doors once this installation is complete. Reference the mirror kit instructions.

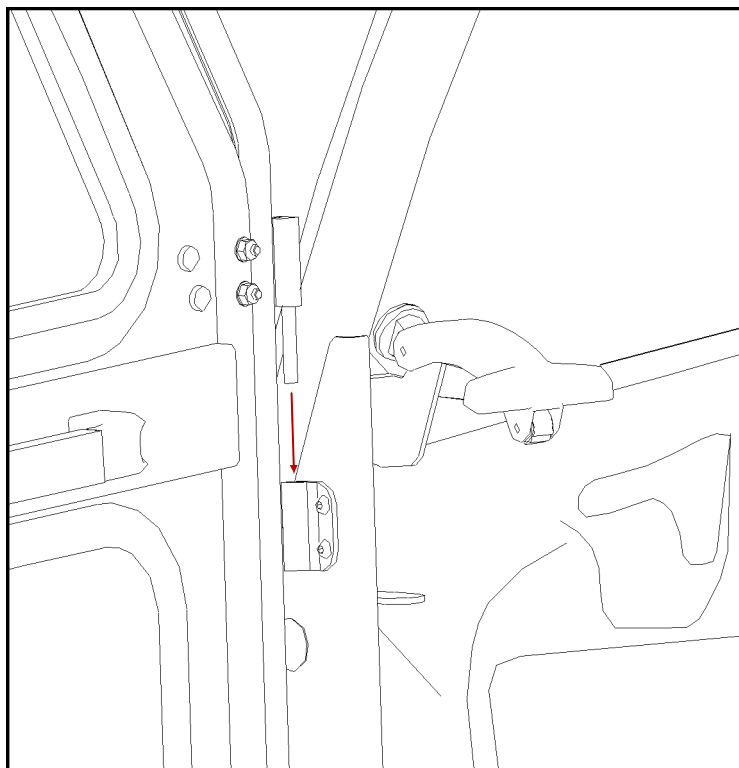
- 2.1 Apply a small amount of grease to both pins on each door.
- 2.2 Holding the door perpendicular to the vehicle, lower the door hinge pins into the hinge sleeves on the frame. **(Figure 2.2).**

**NOTE:** Loosen the bolts on the hinges on the door and/or the frame, if the pins do not slide easily and fully into the sleeves.

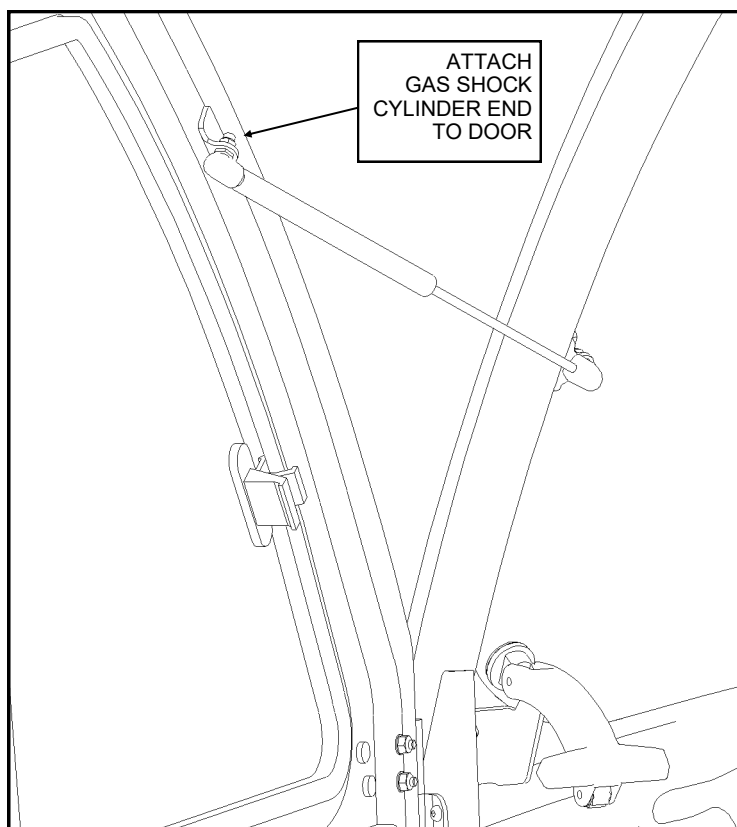
- 2.3 Gently close the door, lifting on the door handle if necessary, to allow the latch to lock around the striker pin. Ensure that you have heard (2) clicks of the latch. Use a long straight edge to ensure that the hinges are in-line with each other.
- 2.4 With an assistant sitting inside the vehicle, tighten the (4) 1/4-20 hinge screws and nuts.

**Note:** See Door Troubleshooting section on page 5 for information about adjusting the door latches and hinges.

- 2.5 Open the door to slightly less than 90°. Install the Gas Shock onto the Ball Studs of the frame and door **(Figure 2.5)**. The cylinder end must be attached to the door as shown to ensure seals stay lubricated.



**Figure 2.2:** Door hinge pins into frame sleeves



**Figure 2.5:** Door gas shock

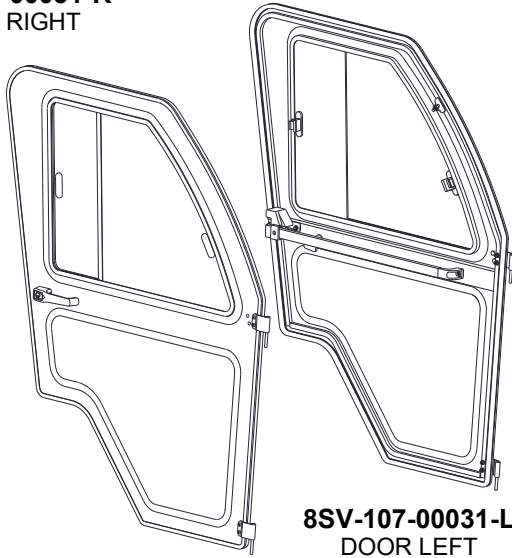
## DOOR TROUBLESHOOTING

Condition	Possible Solution
<ul style="list-style-type: none"> <li>Door latch and striker pin do not line up vertically</li> </ul>	<ul style="list-style-type: none"> <li>Loosen striker pin and move up or down.</li> <li>Use (2) 3/4" wrenches to adjust striker pin.</li> </ul>
<ul style="list-style-type: none"> <li>Door latch and striker pin do not line up horizontally</li> </ul>	<ul style="list-style-type: none"> <li>Remove plastic covers on interior door latch. Loosen (2) 1/4-20 flanged hex screws on the latch mount and (1) 1/4-20 pan head screw at the front of the handle.</li> <li>Move interior door latch forward or backward.</li> </ul>
<ul style="list-style-type: none"> <li>Door is not aligned to vehicle</li> </ul>	<ul style="list-style-type: none"> <li>Loosen door hinges.</li> <li>With the door unlatched, lift up (or lower down) on the door handle until the door is aligned with the vehicle.</li> <li>Have an assistant sit inside the vehicle and determine the new height required for the striker pin.</li> <li>Have the assistant adjust the height of the striker pin.</li> <li>Re-latch the door and tighten all fasteners.</li> </ul>

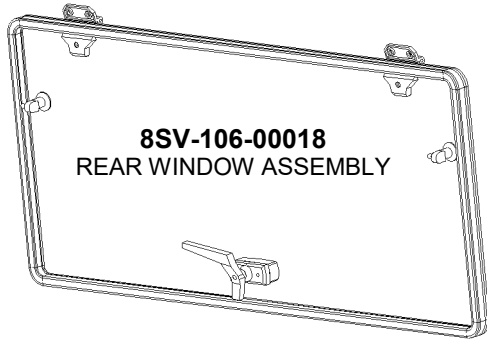


## SERVICE PARTS:

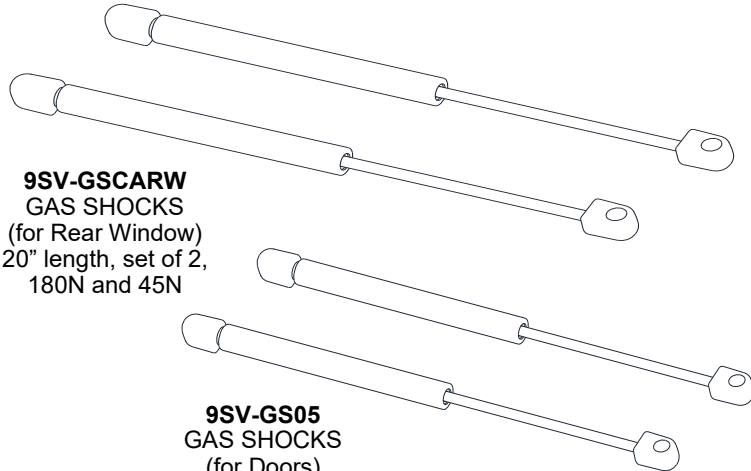
**8SV-107-00031-R**  
DOOR RIGHT



**8SV-107-00031-L**  
DOOR LEFT



**8SV-106-00018**  
REAR WINDOW ASSEMBLY



**9SV-GSCARW**  
GAS SHOCKS  
(for Rear Window)  
20" length, set of 2,  
180N and 45N

**9SV-GS05**  
GAS SHOCKS  
(for Doors)  
14-1/2" length, set of 2,  
both 100N

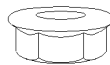
QTY: (4)  
1/4-20 x 3/4"  
Button Head Bolt

QTY: (4)  
1/4-20 Flanged  
Lock Nut



**9SV-HWK-00135**  
DOOR HINGE  
HARDWARE KIT

QTY: (4)  
5/16-18 x 1-1/2"  
Flat Head Bolt



QTY: (4)  
5/16-18 Flanged  
Lock Nut

**9SV-HWK-00042**  
REAR WINDOW  
HARDWARE KIT

## ADDITIONAL SERVICE PARTS:

- **9SV-HWS**..... Glass Hinge Kit with bushing and spacer blocks, (set of 2)
- **9SV-GS02A**..... Ball Studs, 10mm (bag of 10)
- **9SV-DSTRH**..... Door Striker hardware
- **9SV-WL2**..... Fully Opening Glass Latch Kit with bushing and spacer blocks, set of left/right
- **9SV-GSM**..... Gas Shock Mount for Glass, set of 2
- **9SV-HSLP**..... Hinge Set with 1 each left and right hinge pins and 2 sleeves
- **9SV-OHRLCC**..... Outer Door Handle, set of 2
- **9SV-DL02**..... Door Latch kit, non-locking w/ grab handle (set of left/right)
- **8SV-CA11-B4**..... Door Latch Mounts (set of left/right)
- **8SV-SWCAL**..... Sliding Window, Left, with rubber
- **8SV-SWCAR**..... Sliding Window, Right, with rubber
- **8SV-CADRLW**..... Lower Door Window with rubber
- **9SV-PR10-10**..... Window Mounting Rubber, 10-Foot Length
- **9SV-PR17-20**..... 3/4" Side Bulb Rubber 1/16" grip, 20-Foot Length
- **9SV-DP02**..... Dome Plug 1" (QTY 15)

## Tightening of Non-Structural Bolts

For light or medium duty fastening, Curtis recommends using a general industry standard of tightening until snug and then giving an additional one quarter turn of the tool as deemed reasonable for the application (i.e.: at the installer's discretion).

If torque values are required, the examples listed below are intended as a reasonable reference for use in the majority of non-structural fastener applications such as: small diameter fasteners; bolts passing thru tubing, glass, plastic, nylon or rubber washers, threaded inserts, etc.

If more than one application below applies, use the lower torque value.

FASTENER SIZE:	FASTENER TYPE:	WASHER MATERIAL:	APPLICATION:	TORQUE (INCH-POUNDS) (±5)
#10	Machine Screws	-	in Nylon P-Clamps	20
#10	Machine Screws	-	Strobe Light (plastic base)	35
M5	Set Screws	-	Wiper Arm	20
1/4"	Cap Nut	-	Windshield Wiper	20
1/4"	Bolts	-	Tubing (5/8" to 3/4" wide)	132
1/4"	Bolts	Rubber	-	60
1/4"	Bolts	Nylon / Plastic	-	72
1/4"	Bolts	-	Factory Installed Threaded Inserts	132
5/16"	Bolts	-	Tubing (1" or wider)	60
5/16"	Flat Head Bolts	-	Plastic Windshield Hinge	79
5/16"	Bolts	Rubber	-	120
5/16"	Bolts	Nylon / Plastic	-	150
5/16"	Ball Studs	-	-	150
5/16"	Bolts	-	Factory Installed Threaded Inserts	240
3/8"	Bolts	-	Tubing	120
M12	Door Striker Pins	-	-	120








# BOLT TORQUE

## BOLT TORQUE SPECIFICATIONS

### GENERAL TORQUE SPECIFICATION TABLE

Use the following torques when special torques are not given. These values apply to fasteners as received from suppliers, dry, or when lubricated with normal engine oil. They do not apply if special graphited or moly disulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads. Remember to always use grade five or better when replacing bolts.

**IMPORTANT: On all PLATED GRADE 8 bolts, reduce torque 15% from listed bolt torque specification.**

SAE Grade No.		2				5				8*			
Bolt head identification mark as per grade. NOTE: Manufacturing Marks Will Vary						  				  			
Bolt Size		TORQUE				TORQUE				TORQUE			
Inches	Millimeters	Pounds Feet		Newton-Meters		Pounds Feet		Newton-Meters		Pounds Feet		Newton-Meters	
Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4	6.35	5	6	7	8	9	11	12	15	12	15	16	20
5/16	7.94	10	12	14	16	17	20.5	23	28	24	29	33	39
3/8	9.53	20	23	27	31	35	42	48	57	45	54	61	73
7/16	11.11	30	35	41	47	54	64	73	87	70	84	95	114
1/2	12.70	45	52	61	70	80	96	109	130	110	132	149	179
9/16	14.29	65	75	88	102	110	132	149	179	160	192	217	260
5/8	15.88	95	105	129	142	150	180	203	244	220	264	298	358
3/4	19.05	150	185	203	251	270	324	366	439	380	456	515	618
7/8	22.23	160	200	217	271	400	480	542	651	600	720	814	976
1	25.40	250	300	339	406	580	696	787	944	900	1080	1220	1464
1-1/8	25.58	-	-	-	-	800	880	1085	1193	1280	1440	1736	1953
1-1/4	31.75	-	-	-	-	1120	1240	1519	1681	1820	2000	2468	2712
1-3/8	34.93	-	-	-	-	1460	1680	1980	2278	2380	2720	3227	3688
1-1/2	38.10	-	-	-	-	1940	2200	2631	2983	3160	3560	4285	4827

\*Thick Nuts must be used with Grade 8 bolts

### METRIC BOLT TORQUE SPECIFICATIONS



Size of Screw	Property Class	Course Thread			Fine Thread		
		Pitch (mm)	Pounds Feet	Newton-Meters	Pitch (mm)	Pounds Feet	Newton-Meters
M6	5.6	1.0	3.6-5.8	4.9-7.9	-	-	-
	8.8		5.8-9.4	7.9-12.7		-	-
	10.9		7.2-10	9.8-13.6		-	-
M8	5.6	1.25	7.2-14	9.8-19	1.0	12-17	16.3-23
	8.8		17-22	23-29.8		19-27	25.7-36.6
	10.9		20-26	27.1-35.2		22-31	29.8-42
M10	5.6	1.5	20-25	27.1-33.9	1.25	20-29	27.1-39.3
	8.8		34-40	46.1-54.2		35-47	47.4-63.7
	10.9		38-46	51.5-62.3		40-52	54.2-70.5
M12	5.6	1.75	28-34	37.9-46.1	1.25	31-41	42-55.6
	8.8		51-59	69.1-79.9		55-68	75.9-92.1
	10.9		57-66	77.2-89.4		62-75	84-101.6
M14	5.6	2.0	49-56	66.4-75.9	1.5	52-64	70.5-86.7
	8.8		81-93	109.8-126		90-106	122-143.6
	10.9		96-109	130.1-147.7		107-124	145-168
M16	5.6	2.0	67-77	90.8-104.3	1.5	69-83	93.6-112.5
	8.8		116-130	157.2-176.2		120-138	162.6-187
	10.9		129-145	174.8-196.5		140-158	189.7-214.1
M18	5.6	2.0	88-100	119.2-136	1.5	100-117	136-158.5
	8.8		150-168	203.3-227.6		177-199	239.8-269.6
	10.9		175-194	237.1-262.9		202-231	273.7-313
M20	5.6	2.5	108-130	146.3-176.2	1.5	132-150	178.9-203.3
	8.8		186-205	252-277.8		206-242	279.1-327.9
	10.9		213-249	288.6-337.4		246-289	333.3-391.6