

-J01489 *Kit Number 59457-99Y* REV. 4-15-99

CHIN SPOILER, CARBON FIBER

General

This carbon fiber chin spoiler is designed to fit on the 1999 Lighting X1, the 1996 through 1998 Lightning S1, the 1998 Lightning S1W, the 1997 through 1999 Thunderbolt S3 and the 1997 through 1999 Cyclone M2.

Kit contents:

QTY	DESCRIPTION	PART NUMBER
1	Carbon Fiber Chin Spoiler	
2	Spacer, Chin Spoiler, Left	50470-99Y
2	Spacer, Chin Spoiler, Right	50471-99Y
4	O-ring, Rubber	11071Y
4	Steel Washer, Black	6591Y
1	Bolt, 1/4-20 x 3/4", Torx	2609Y
2	Bolt, 5/16-18 x 1-1/4", Allen	3239Y
2	Bolt, 5/16-18 x 4"	
	Buttonhead Allen	3241
1	Washer, Nylon	6135Y
1	Bracket, Chin Fairing Support	59455-99Y
1	Wellnut	7622Y
1	Bolt, 12-1.75 x 55mm, Allen	2896Y
1	Nut, 12mm, Nylock	7701Y
1	Protective Tape	91342-97Y

Installation

NOTE

A Service Manual for your vehicle is available from your Buell Dealer

1999 Lightning X1

NOTE

If necessary, refer to the applicable Service Manual.

- See Figure 1. Remove chin fairing support bolt (Torx) and washer.
- Remove the two allen bolts, washers and spacers from the swingarm/drive support arm.
- See Figure 2. Remove the two lower allen head primary cover bolts, washers and spacers holding the left side of the chin fairing.
- Remove the stock chin fairing and spacers.
- See Figure 3. Place the new right side spacers into the drive support arm with the short sleeve out.
- See Figure 4. Insert new left side spacers into left side of carbon fiber chin fairing.
- Place a new steel washer and an O-ring onto each 4" allen bolt. Put a few drops of Loctite Threadlocker 271 (red) on the last few threads of the bolts.

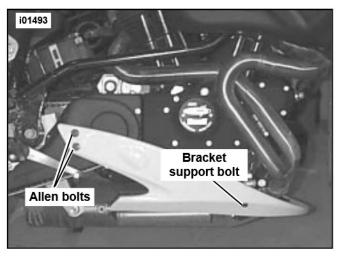


Figure 1. Chin Fairing, Right Side

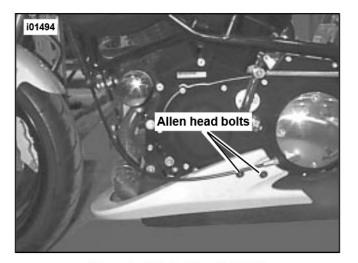


Figure 2. Chin Fairing, Left Side

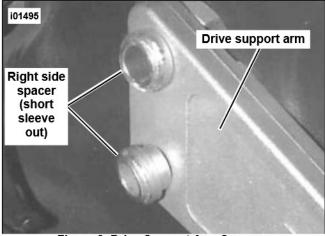


Figure 3. Drive Support Arm Spacers

-J01489 1 of 4

CAUTION

Ensure that the spacers do not come out of the chin spoiler holes during installation. Failure to do this could cause damage to the chin spoiler.

Ensure that the rubber O-ring does not get pinched between the edge of the washer and the chin spoiler. Failure to do this could cause damage to the O-ring.

- See Figure 2. Hold the chin spoiler in place and install left side by placing the 4" allen bolts through the chin spoiler and spacers and into the two lower holes in the primary cover. Torque the bolts to 9-11 ft-lbs (12.2-14.9 Nm).
- See Figure 1. Loosely install short Torx bolt with nylon washer into the support bracket hole in the chin spoiler and into the bracket wellnut. Thread bolt into the wellnut until nylon washer just contacts the chin spoiler, but do not tighten yet.
- Place a new steel washer and an O-ring onto each 1-1/4" allen bolt. Put a few drops of Loctite Threadlocker 271 (red) on the last few threads of the bolts.

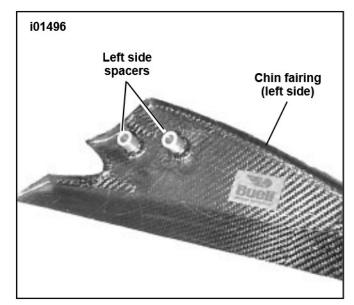


Figure 4. Left Side Spacers

CAUTION

Ensure that the spacers are inserted into the mount holes of the chin spoiler. Failure to do this could cause damage to the chin spoiler.

Ensure that the rubber O-ring does not get pinched between the edge of the washer and the chin spoiler. Failure to do this could cause damage to the O-ring.

- 13. See Figure 1. Install the right side of the chin spoiler by placing the 1-1/4" allen bolts through the chin spoiler and spacers and into the swingarm/drive support arm. You may need to pull the spoiler back a bit to engage the spacers into the holes. Torque the bolts to 9-11 ft-lbs (12.2-14.9 Nm).
- Tighten the Torx bolt, into the front support bracket, until snug.
- 15. See Figure 5. Install protective tape on the area where the clutch cable contacts the chin spoiler. Center the tape front to back on the point of contact.

1996-1998 Lighting S1

1998 Lightning S1W

1997-1999 Thunderbolt \$3

1997-1999 Cyclone M2

NOTE

If necessary, refer to the applicable Service Manual.

- Refer to the applicable Service Manual and remove the seat and tail section.
- Raise rear wheel of the vehicle off the floor using the Rear Wheel Support Stand (Part No. B-41174).
- Support the motorcycle frame and remove the tension from the rear shock with a floor hoist such as the

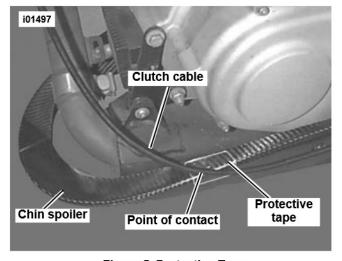


Figure 5. Protective Tape

-J01489 2 of 4

CENTRAL HYDRAULICS FOLDING CRANE.

- See Figure 6. Remove the allen bolt and locknut from the front shock mounting point.
- Install the chin fairing support bracket onto new (longer) allen bolt.
- Install allen bolt with bracket through shock mount bracket and shock and secure with 12 mm locknut. Rotate the bracket clockwise (looking from the right side of the bike) until it stops against the shock mount bracket. Torque bolt to 49-53 ft-lbs (66.4-71.9 Nm).
- See Figure 7. Install wellnut into bracket.
- See Figure 8. Remove two allen bolts from the swingarm/drive support arm.
- See Figure 9. Remove the two lower allen head primary cover bolts.
- See Figure 3. Place the new right side spacers into the drive support arm with the short sleeve out.
- See Figure 4. Insert new left side spacers into left side of carbon fiber chin fairing.
- Place a new steel washer and an O-ring onto each 4" allen bolt. Put a few drops of Loctite Threadlocker 271 (red) on the last few threads of the bolts.

CAUTION

Ensure that the spacers do not come out of the chin spoiler holes during installation. Failure to do this could cause damage to the chin spoiler.

Ensure that the rubber O-ring does not get pinched between the edge of the washer and the chin spoiler. Failure to do this could cause damage to the O-ring.

- 13. See Figure 2. Hold the chin spoiler in place and install left side by placing the 4" allen bolts through the chin spoiler and spacers and into the two lower holes in the primary cover. Torque the bolts to 9-11 ft-lbs (12.2-14.9 Nm).
- 14. See Figure 1. Loosely install short Torx bolt with nylon washer into the support bracket hole in the chin spoiler and into the bracket wellnut. Thread bolt into the wellnut until nylon washer just contacts the chin spoiler, but do not tighten yet.
- 15. Place a new steel washer and an O-ring onto each 1-1/4" allen bolt. Put a few drops of Loctite Threadlocker 271 (red) on the last few threads of the bolts.

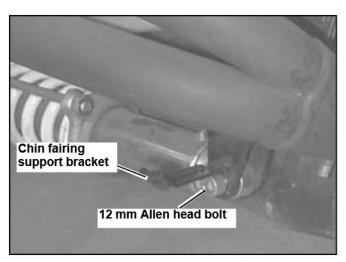


Figure 6. Chin Spoiler Support Bracket

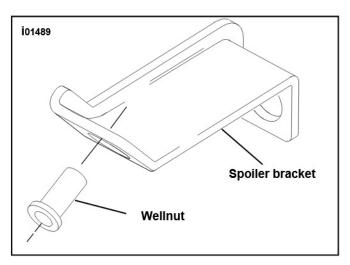


Figure 7. Spoiler Bracket and Wellnut

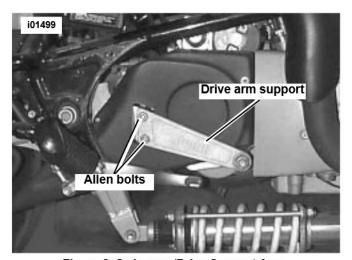


Figure 8. Swingarm/Drive Support Arm

_J01489 3 of 4

CAUTION

Ensure that the spacers are inserted into the mount holes of the chin spoiler. Failure to do this could cause damage to the chin spoiler.

Ensure that the rubber O-ring does not get pinched between the edge of the washer and the chin spoiler. Failure to do this could cause damage to the O-ring.

- 16. See Figure 1. Install the right side of the chin spoiler by placing the 1-1/4" allen bolts through the chin spoiler and spacers and into the swingarm/drive support arm. (You may need to pull the spoiler back a bit to engage the spacers into the holes). Torque the bolts to 9-11 ft-lbs (12.2-14.9 Nm).
- Tighten the Torx bolt, into the front support bracket, until snug.
- 18. Lower bike and remove floor hoist.

AWARNING

After installing seat, pull upward on front of seat to be sure it is locked in position. If seat is loose, it could shift position during vehicle operation and startle the rider. This could cause loss of control which could result in death or serious injury.

- 19. Install tail section and seat.
- 20. Remove Rear Wheel Support Stand.
- See Figure 5. Install protective tape on the area of where the clutch cable contacts the chin spoiler. Center the tape front to back on the point of contact.

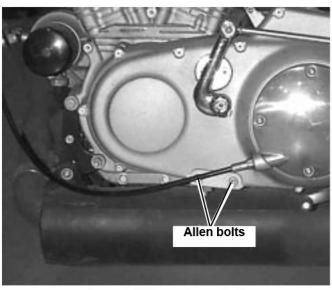


Figure 9. Primary Cover Bolts

-J01489 4 of 4