

# VELOSTER N SHORT THROW SHIFTER






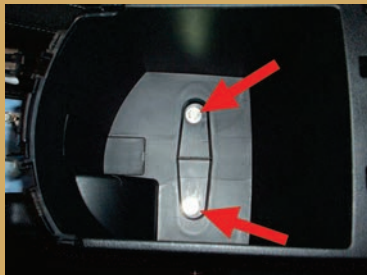
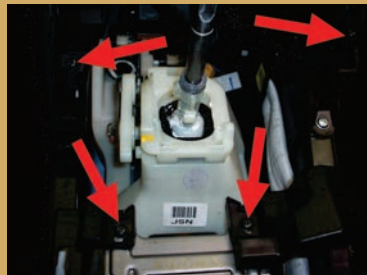





## TOOLS REQUIRED

M10 socket wrench  
M12 socket wrench  
3 MM allen wrench  
Flat screw driver  
Small flat screw driver  
Phillips screw driver  
Wire cutters  
Interior trim tool  
Hooked pick  
3/16 punch  
Small hammer  
Plastic hammer

## TOOLS REQUIRED

## MATERIALS REQUIRED

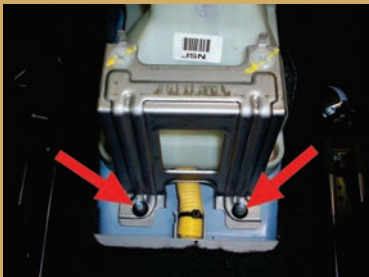
Dremel with cut off wheel  
Mobil 1 synthetic grease

<p><b>1</b></p> <p>Remove the side trim.</p>	<p><b>2</b></p> <p>Remove the shift knob by pulling it straight up. Remove the shifter boot.</p>	<p><b>3</b></p> <p>Remove the shelf cover. Remove the shelf.</p>	<p><b>4</b></p> <p>Disconnect the wire harness.</p>
			
<p><b>5</b></p> <p>Remove the parking brake cover. Remove the top trim by pulling it up, starting from the back of the trim.</p>	<p><b>6</b></p> <p>Remove the center console bolts.</p>	<p><b>7</b></p> <p>Remove the screws securing the center console.</p>	<p><b>8</b></p> <p>Remove the screw holding the trim under the steering column.</p>
			
<p><b>9</b></p> <p>Pull the right side of the trim out to gain the access to the screw holding the center console's side trim.</p>	<p><b>10</b></p> <p>Remove the side trim by pulling it toward back of the car.</p>	<p><b>11</b></p> <p>Remove the screw holding the center console.</p>	<p><b>12</b></p> <p>Remove the right side clip.</p>
			

**13** Remove the left side clip.



**14** Remove the center console's support bracket.



**15** Remove the spring clip securing the side shift link.



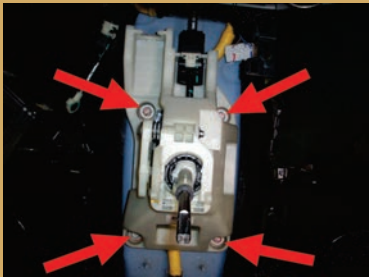
**16** Unlock both shift cables by pulling the safety ring toward the back of the car and lifting the lock clip. The lock clip should stay in upper position preventing the safety ring from moving back.



**17** Remove the side shift cable from the shifter base.



**18** Remove all of the bolts securing the shifter base.



**19** Turn shifter on its side. Separate the spring clips and disconnect the main shift cable.



**20** Remove the main shift cable from the shifter base. Remove the shifter base.



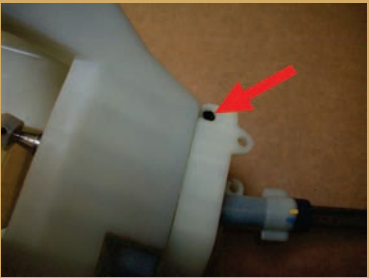
**21** Remove plastic cup from the shifter arm.



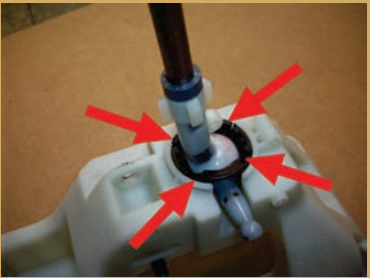
**22** Cut the spring clip with the Dremel tool and remove the side shift arm.



**23** Punch out the roll pin and remove the cover.



**24** Slide small flat screw driver under the latches to brake the sharp corners. Tap out the shift lever from the opposite side.



**25** Remove the ball bushing.



**26** Prepare Boomba Racing Short Throw Shifter assembly.  
**SHIFT KNOB NOT INCLUDED**



**27** Remove the reverse lock. Grease the main shifter ball and the ball at the end of the shifter shaft. Install the ball bushing and the plastic cup.



**28** Reinstall shifter shaft and the cover. Press in the roll pin. Install the side shift arm and secure it with the provided spring clip. Place 10 mm socket over the clip and tap it in with a hammer.



<p><b>29</b></p>	<p><b>30</b></p>	<p><b>31</b></p>	<p><b>32</b></p>
<p>Connect the main shift cable and lock it to the shifter base. Install the shifter bushings. Secure shifter base to the floor.</p>	<p>Connect the side shift cable and lock it to the shifter base.</p>	<p>Install the center console's support bracket.</p>	<p>Reinstall the center console.</p>
<p><b>33</b></p>	<p><b>34</b></p>	<p><b>35</b></p>	<p><b>36</b></p>
<p>Reconnect the wire harness.</p>	<p>Reinstall the side trim and the steering column trim.</p>	<p>Remove the plastic trim from the shift boot.</p>	<p>Push the reverse lock through the boot. Rotate it to the proper orientation. Secure it to the boot with the zip tie.</p>
<p><b>37</b></p>	<p><b>38</b></p>		
<p>Secure the reverse lock to the shifter shaft.</p>	<p>Reinstall the top trim, the shelf with the cover, the shift knob and the side trim. Line up and press the shift pattern button.</p>		
			