



Installation Instructions

Short Throw Shifter

1996-1999 VW Golf VR6

1998-1999 VW Beetle

1998-1999 VW Jetta/Bora VR6

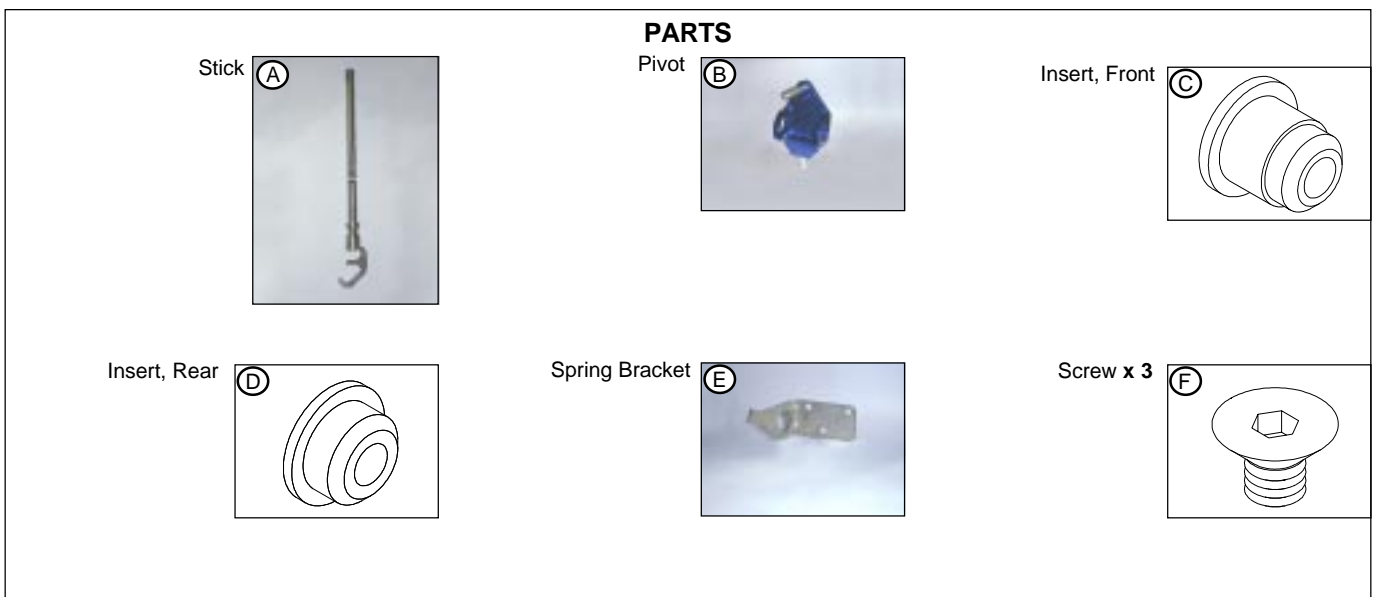
Part Number 45106

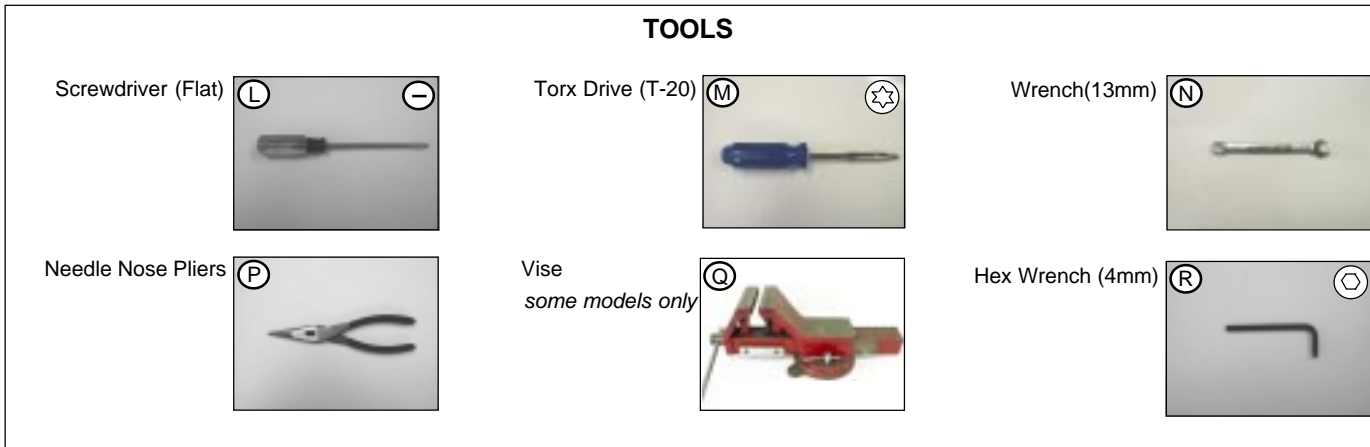
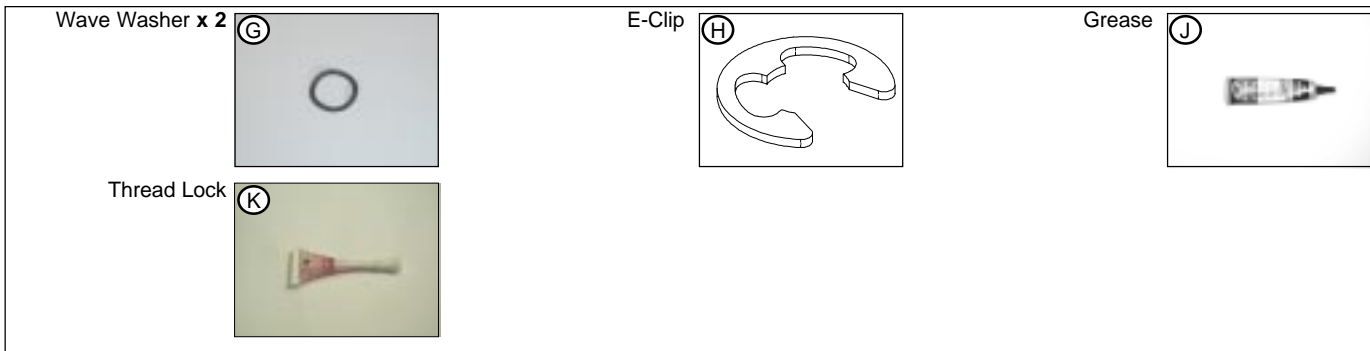
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This **B&M Short Throw Shifter** has been designed to work on most 1996-1999 Volkswagen Golf VR6, 1998-1999 Volkswagen Beetle, and 1998-1999 Volkswagen Jetta/Bora VR6 models. It has been engineered to greatly reduce shift throw and improve shifter feel. Check the parts and tools lists at the beginning of these instructions for the supplied parts and the tools required to install your **B&M Short Throw Shifter**. Installation of the **B&M Short Throw Shifter** can be accomplished by anyone with minimal mechanical experience.

INTRODUCTION

This **B&M Short Throw Shifter** can be installed in less than an hour by carefully following the instructions. Read all instructions first to familiarize yourself with the parts, tools, and procedures. This kit contains all the parts necessary to install the shifter.





DISASSEMBLY

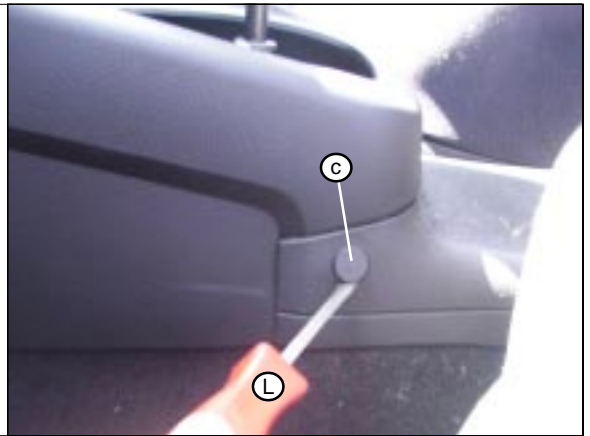
STEP 1. Unsnap boot **(a)**.



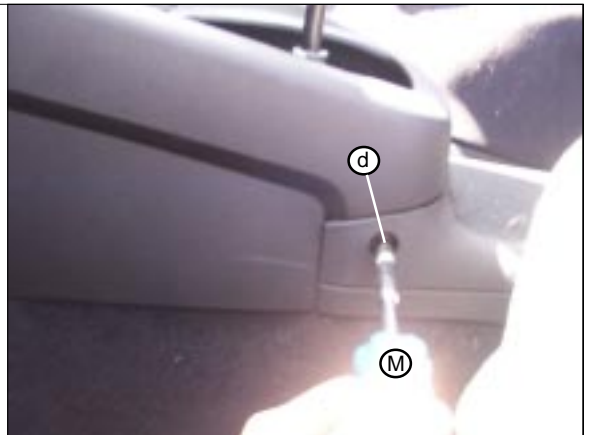
STEP 2. Remove foam **(b)**.



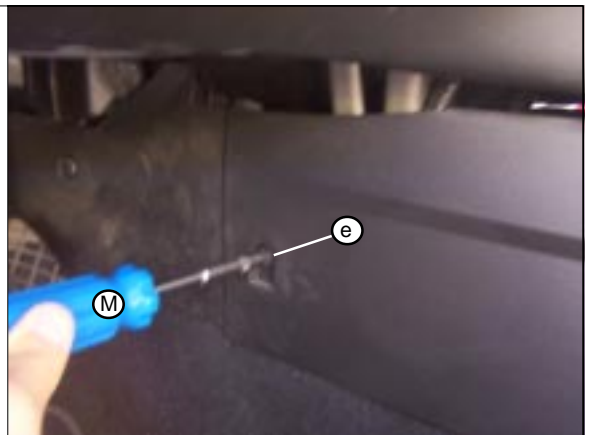
STEP 3. Pry off screw covers (2) **(c)** (both sides).
TOOLS: Screwdriver (Flat) **(L)**



STEP 4. Remove screws (2) **(d)** (both sides).
TOOLS: Torx Drive (T-20) **(M)**



STEP 5. Remove screws (2) **(e)** (both sides).
TOOLS: Torx Drive (T-20) **(M)**



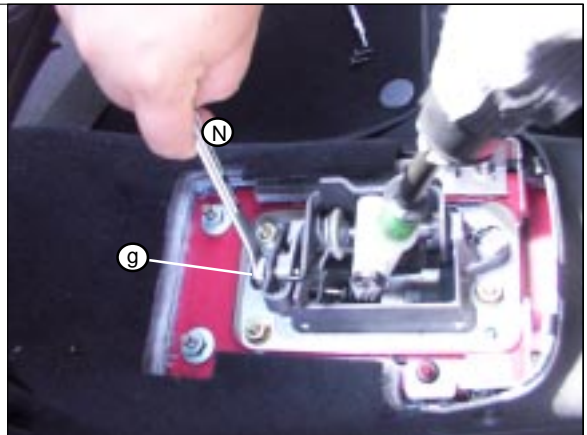
STEP 6. Pull out center console **(f)**.



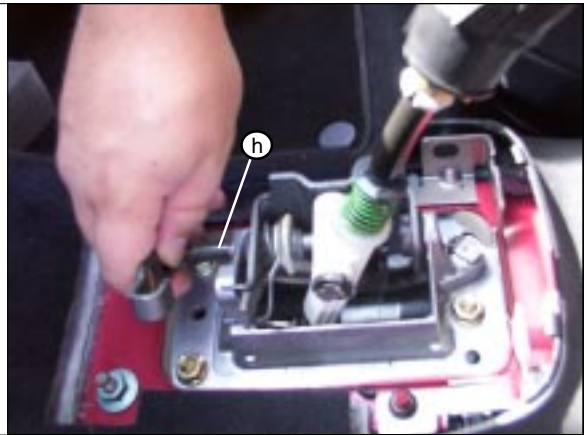
STEP 7. Move center console (f) aside.



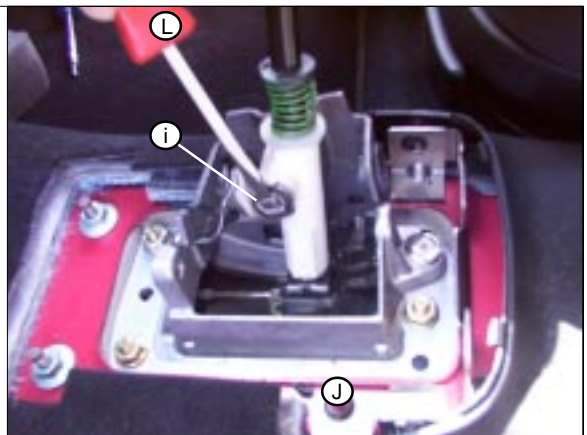
STEP 8. Remove neutral adjustment screw (g).
TOOL: Wrench (13mm) (N)



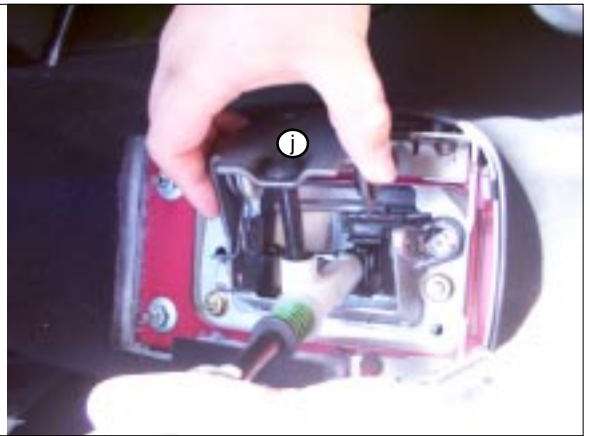
STEP 9. Slide out pivot rod (h).



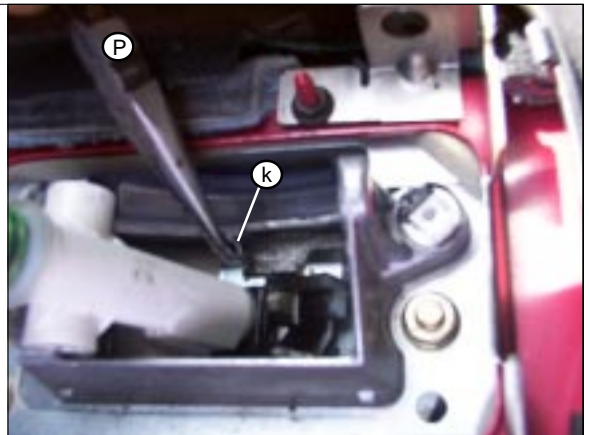
STEP 10. Pry up and slide out pivot clip (i).
TOOL: Screwdriver (Flat) (L)



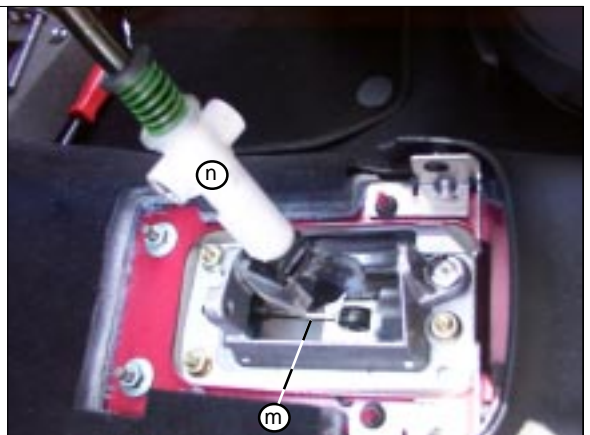
STEP 11. Slide out pivot **(j)**.



STEP 12. Remove lower cable pin **(k)**.
TOOL: Needle Nose Pliers **(P)**



STEP 13. Remove cable **(m)** and remove shifter **(n)**.



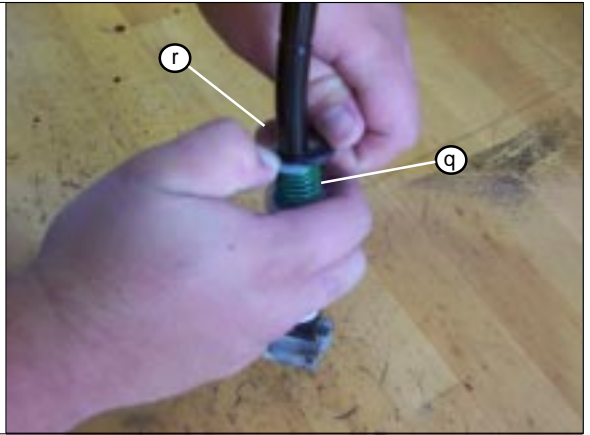
STEP 14. Pry open knob retainer **(o)**.
TOOLS: Screwdriver (flat) **(L)**



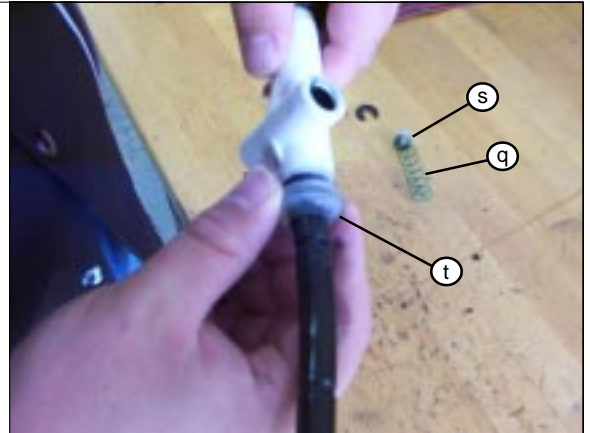
STEP 15. Straight stick: unscrew knob (p).
Bent stick: pull-off knob (p).
Note: Do not dettach boot from knob.



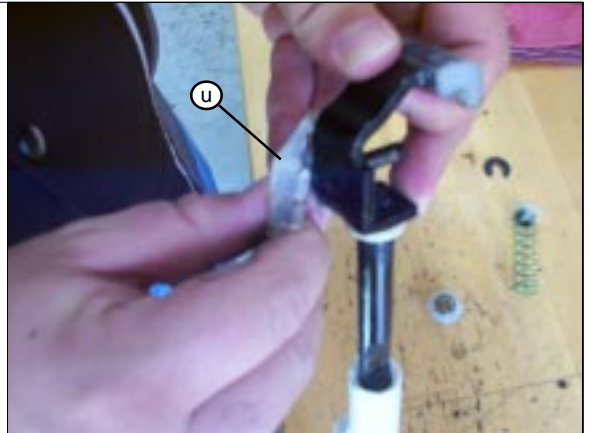
STEP 16. Push spring (q) down and remove retaining clip (r).



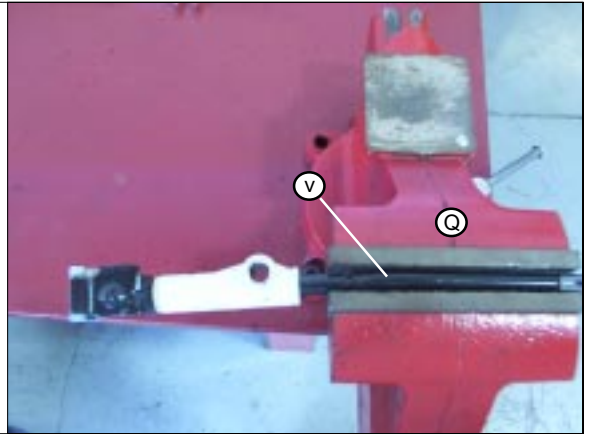
STEP 17. Remove upper spring bushing (s), spring (q), and lower spring bushing (t).



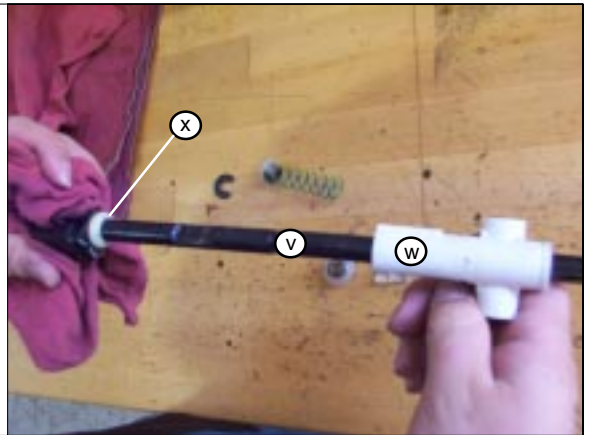
STEP 18. Remove side bumper (u).



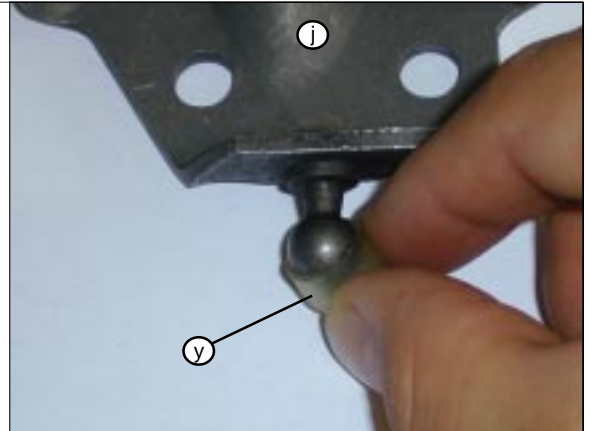
STEP 19. *Bent sticks only:* Slightly straighten bend in stick (v).
TOOL: Vise (Q).



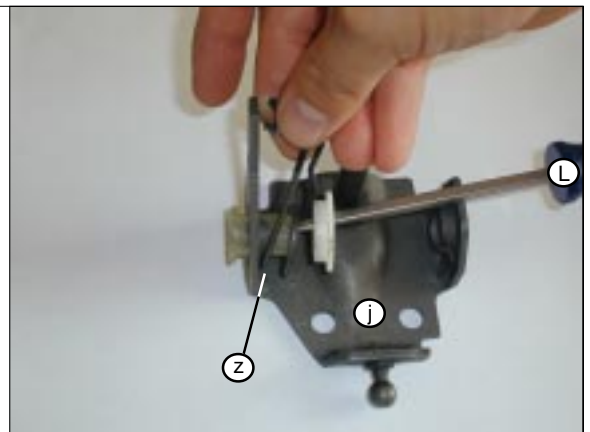
STEP 20. Slide out stick (v) from pivot sleeve (w) and remove bumper ring (x).



STEP 21. Remove plastic ball cap (y) from pivot (j).

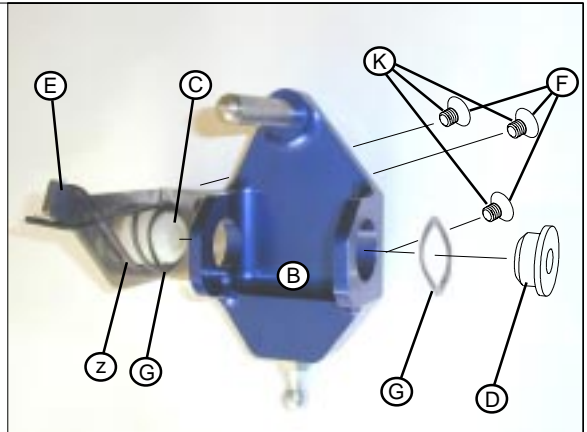


STEP 22. Remove centering spring (z) from pivot (j).
TOOL: Screwdriver (Flat) (L)

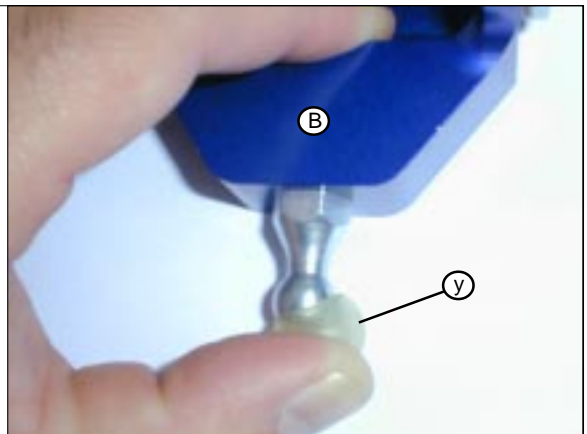


ASSEMBLY

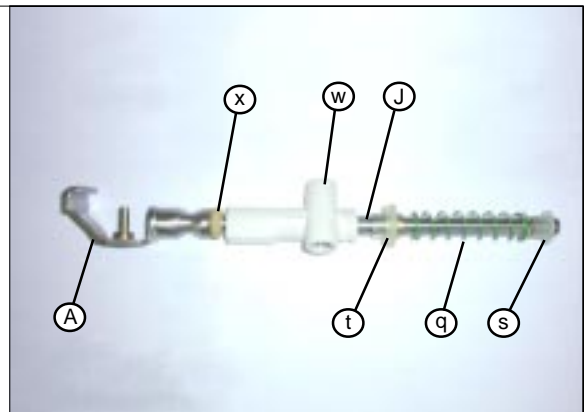
STEP 23. Assemble **B&M Pivot** (B), Wave Washers (2) (G), Front Insert (C), Rear Insert (D), centering spring (Z), and Spring Bracket (E). Affix using Thread Lock (K) on screws (3) (F).
TOOL: Hex Wrench (4mm) (R)



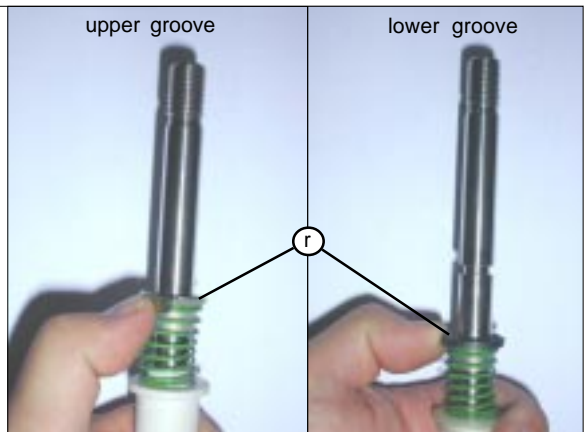
STEP 24. Install plastic ball cap (Y) on **B&M Pivot** (B).



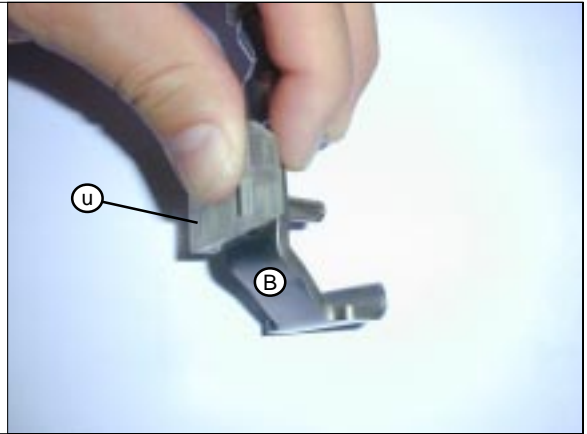
STEP 25. Slide bumper ring (X), pivot sleeve (W), lower spring bushing (T), spring (Q), and upper spring bushing (S) onto greased (J) **B&M Stick** (A).



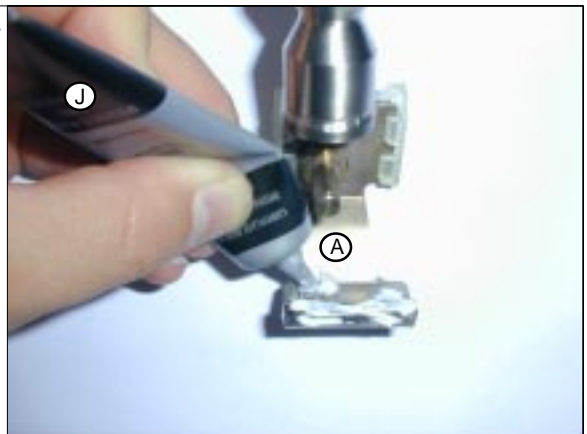
STEP 26. Secure assembly with retaining clip (R):
Use upper groove for straight stick models.
Use lower groove for bent stick models.



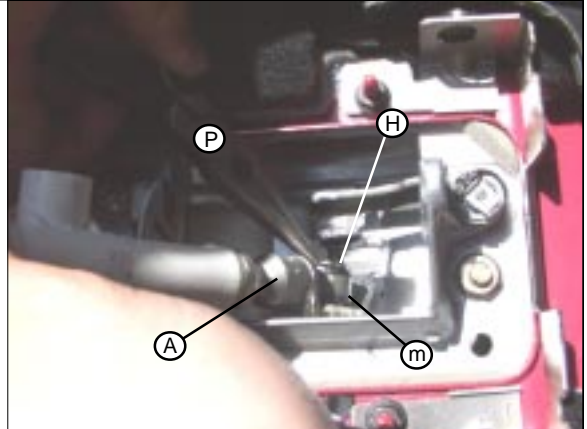
STEP 27. Install side bumper (U) on B&M Stick (A).



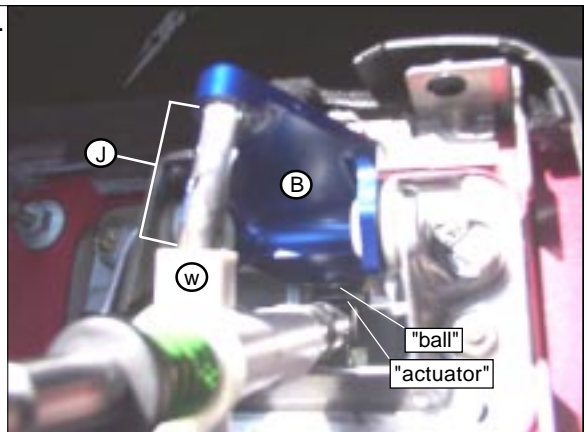
STEP 28. Grease (J) "reverse slide" portion of the B&M Stick (A).



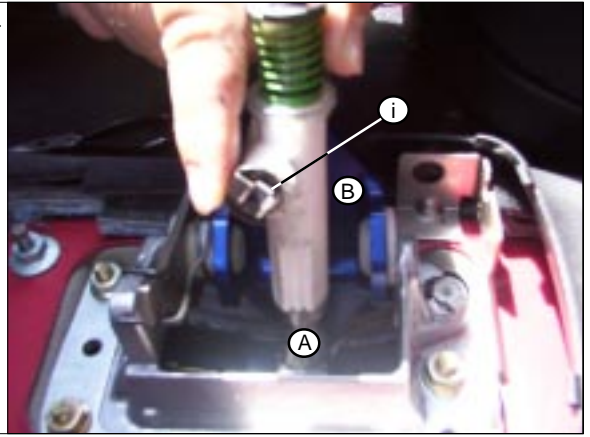
STEP 29. Slide cable (m) onto B&M Stick (A) and secure with E-Clip (H).
TOOL: Needle Nose Pliers (P)



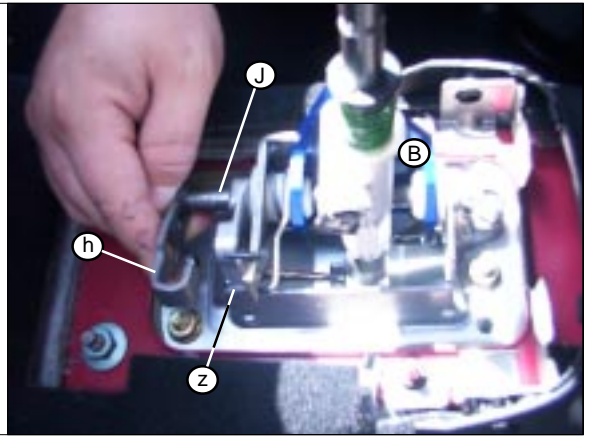
STEP 30. Grease (J) B&M Pivot B and slide into pivot sleeve (W).
Note: Assure that the "ball" portion of B&M Pivot (B) engages the side-to-side "actuator".



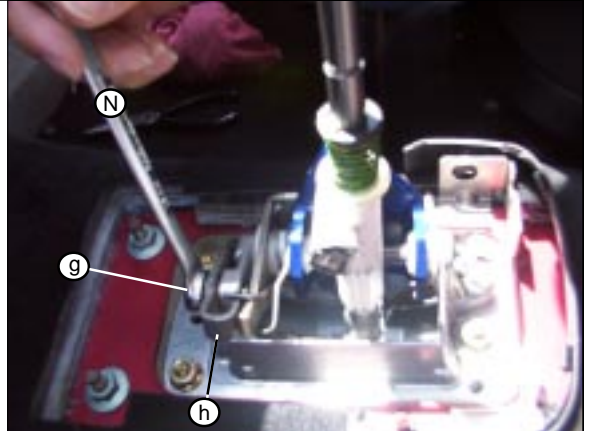
STEP 31. Secure **B&M Pivot** (B) to **B&M Stick** (A) with pivot clip (i).



STEP 32. Grease (J) pivot rod (h) and slide through **B&M Pivot** (B).
Note: Make sure to engage centering spring (z).



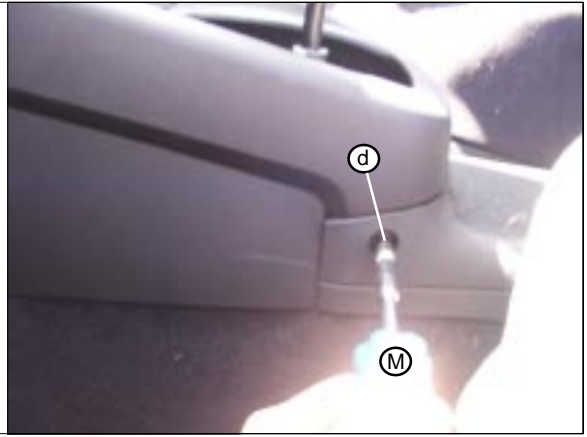
STEP 33. Replace neutral adjustment screw (g).
TOOL: Wrench (13mm) (N)
Note: Carefully check engagement of each gear including reverse. Fine tuning of neutral position and entry into each gear is determined by pivot rod (h) position.



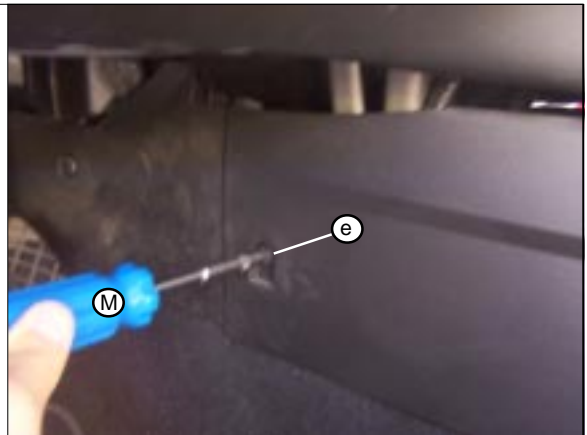
STEP 34. Replace center console (f).



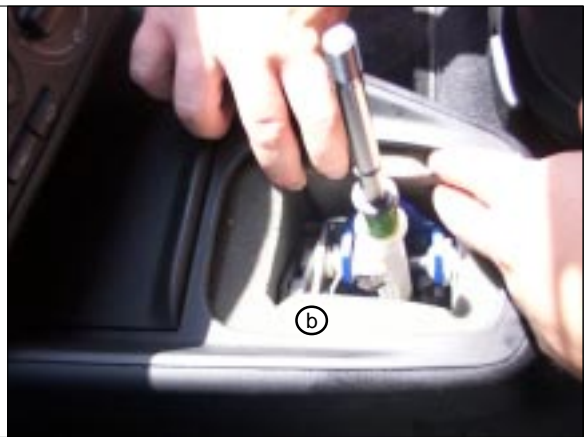
STEP 35. Replace screws (2) (d) and screw covers (2) (c) (both sides - not shown).
TOOLS: Torx Drive (T-20) (M)



STEP 36. Replace screws (2) (e) (both sides).
TOOLS: Torx Drive (T-20) (M)



STEP 37. Replace foam (b).



STEP 38. Screw on knob (p).
Note: Even knobs that originally "pull off" will screw on.



STEP 39. Snap-in boot (a).



STEP 40. Again, test movement of shifter into all gears. DO NOT operate vehicle until all gears can be smoothly and fully engaged.

