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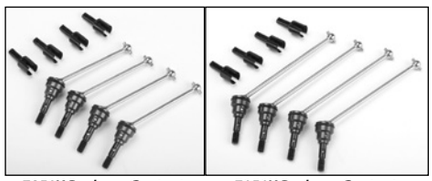
1/16th Scale Metal Driveshaft Installation Instructions

Covers Parts #7051X, #7151X

Tools Needed:
- 2.0mm hex wrench
- 1.5mm hex wrench
- Needle nose pliers
- 7.0mm wheel nut wrench
- Small flat-blade screwdriver

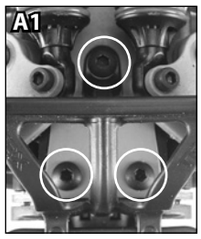


7051X Package Contents *7151X Package Contents*

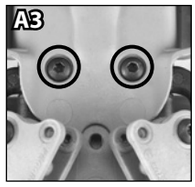
Front and Rear Disassembly/ Plastic Half Shaft Removal

Front disassembly and differential removal:

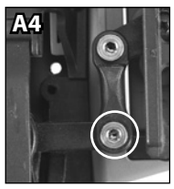
1. Using a 7.0mm wheel wrench, remove all four wheels from the axles.

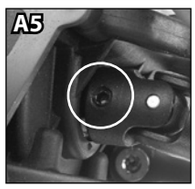


2. Disconnect the front body mount by removing the 3x6mm button head screw and the two 3x10mm button head screws (A1).
3. Remove the front shocks from the chassis by removing the two 2.5x18mm cap head screws from the upper shock mount and the two 2.5x10mm cap head screws from the rocker arms (A2).

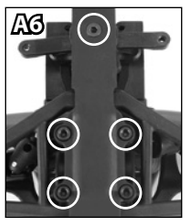


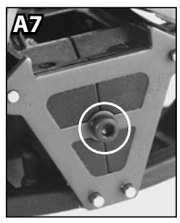
4. Next, remove the two 3x10mm button-head screws located underneath the two front shocks (A3).
5. Flip the chassis over to disconnect the steering servo link by removing the ball screw from the bellcrank (A4). The entire front end assembly can now be removed from the chassis.



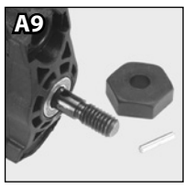


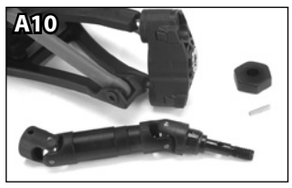
6. Remove the 3x10mm screw pin from each output yoke attached to the differential (A5), and pull the yokes from the differential (diff).
7. Remove the four 2.5x8mm cap head screws and the 2.5x12mm countersunk screw from the front skid plate (A6). Remove the 2.5x6mm cap head screw from the front bulkhead brace (A7); then, pull the brace and the skid plate from the front end.





8. Separate the front bulkhead halves to access the differential and pinion gear. Remove the diff and the pinion gear from the bulkhead (A8).

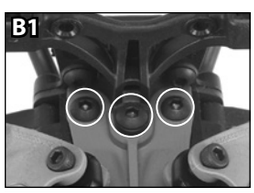


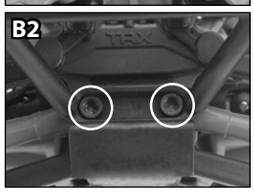


9. Remove the wheel hex adapters from the front axles using the tip of a small flat-blade screwdriver; then, slide the drive pin out of the axle (A9). Next, slide the plastic half shaft assembly out of the hub carrier (A10). ***Note:*** *The wheel bearings should stay inside of the hub carrier.*

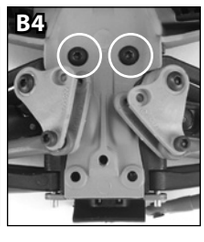
Rear disassembly/differential removal:

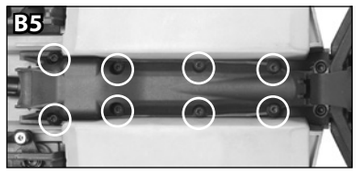
10. Remove the 3x8mm button head screw and the two 3x10mm button head screws from the rear body mount (B1). Loosen the two 2.5x14mm (1/16 Slash) or 2.5x12mm (1/16 E-Revo) cap head screws from the rear bumper (B2), and pull the rear bumper assembly away from the chassis.

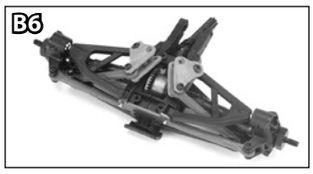




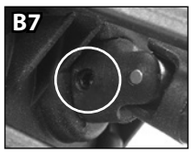
11. Remove the rear shocks from the chassis by removing the two 2.5x18mm cap head screws from the upper shock mount and the two 2.5x10mm cap head screws from the rocker arms (B3).
12. Next, remove the two 3x10mm button head screws located underneath the two rear shocks (B4), and then flip the chassis over to remove the center skid plate from the chassis.



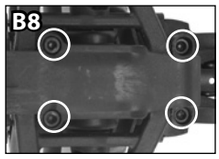


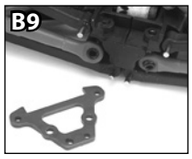


13. Remove the four 3x8mm button head screws, two 3x10 button head screws, and the two 3x15mm button head screws from the center skid plate (B5). Remove the center skid plate from the chassis; then, slide the entire rear assembly away from the rear of the chassis (B6).



14. Remove the 3x10mm screw pin from each output yoke attached to the diff (B7); then, pull the yokes from the diff.





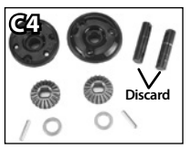
15. Remove the four 2.5x8mm screws from the rear skid plate (B8), and pull the rear skid plate and the rear bulkhead brace off of the rear assembly (B9).

16. Separate the rear bulkhead halves to access the diff and pinion gear. Remove the diff and the pinion gear from the bulkhead (B10).
17. Remove the wheel hex adapters from the rear axles using the tip of a small flat-blade screwdriver and slide the drive pin out of the axle (B11). Next, slide the plastic half shaft assembly out of the hub carrier (B12).

Differential Disassembly and Differential Cup Installation

18. Remove the three 2x14mm button head screws from the diff case (C1); then, separate the diff covers from the ring gear (C2).

19. Remove the output shafts from each diff cover (C3). Next, remove the output gear, drive pin, and O-ring from each output shaft (C4). ***Note:*** *The stock output shafts will not be reused.*



20. Locate the steel diff cups (included) and insert one into each diff cover; then, slide an O-ring onto each diff cup shaft, as shown (C5).

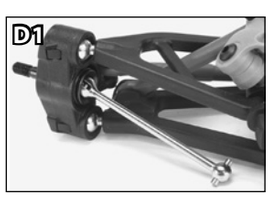
21. Insert a drive pin into each diff cup shaft (C6) followed by the output gears (C7). The gears should key onto the drive pins.
22. Install the diff cover that goes to the ring gear side of the diff, making sure the three diff screw holes are aligned and the O-ring is properly seated. Next, make sure the spider gears are located in their proper positions inside of the housing, and fill the diff housing with the desired diff fluid.

23. Place the other diff cover onto the diff assembly, making sure the three diff screw holes are aligned and the O-ring is seated correctly. Secure the diff assembly with the three 2x14mm button head screws (C8).

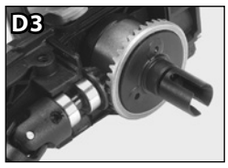
Front and Rear Assembly/ Metal Driveshaft Installation

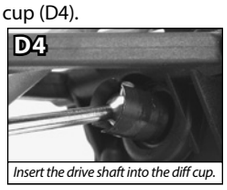
Rear assembly:

24. Locate the two metal driveshaft assemblies, and slide the axles through the inside of each of the rear hub carriers, as shown. Make sure to seat the axles into the ball bearings. Install the drive pins and the wheel hexes onto the axles to keep them in position (D1).



25. Position the rear pinion gear assembly into the right-side bulkhead half (D2). Install the assembled differential (D3) into the bulkhead half. Insert the driveshaft into the diff cup (D4).





Insert the drive shaft into the diff cup.

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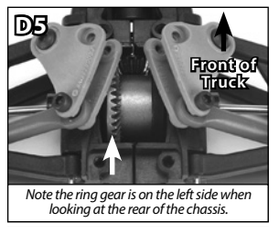
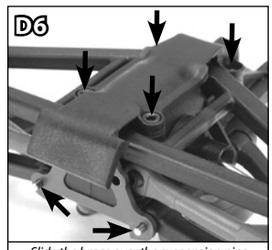
26. Slide the left-side bulkhead half onto the diff while inserting the left driveshaft into the diff cup and connect the two bulkhead halves together (D5).



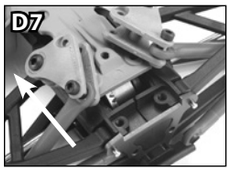
Note the ring gear is on the left side when looking at the rear of the chassis.

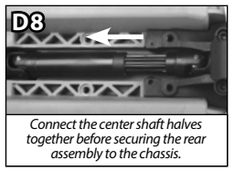
27. Install the rear bulkhead brace onto the rear suspension pins and connect it to the rear bulkhead. Install the rear skid plate onto the rear end assembly, and secure it with the four 2.5x8mm cap head screws (D6).



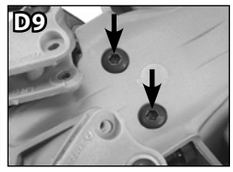
Slide the brace over the suspension pins before installing the rear skid plate.

28. Slide the rear end assembly onto the chassis in the same manner it was removed (D7). Make sure to connect the two center driveshaft halves together before securing the rear end to the chassis (D8). Secure the rear end to the chassis with the same two 3x10mm button head screws (D9). ***Note:*** *The center skid plate will not be attached to the chassis until after the front end assembly is attached to the chassis.*

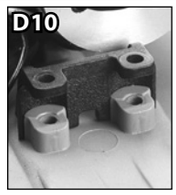


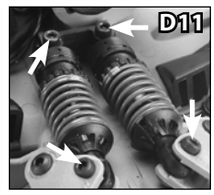


Connect the center shaft halves together before securing the rear assembly to the chassis.

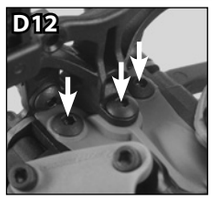


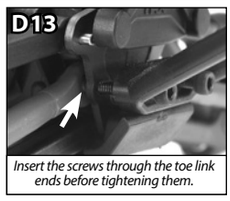
29. Place the rear upper shock mount onto the chassis (D10). Secure the shocks to the shock mount and the rocker arms with the same 2.5x18mm and 2.5x10mm cap head screws (D11).





30. Secure the body mount to the chassis with the 3x8mm and two 3x10mm button head screws (D12). Attach the rear bumper and body mount assembly to the chassis. Make sure to insert the two 2.5x14mm (1/16 Slash) or 2.5x12mm (1/16 E-Revo) cap head screws through the rear toe link before securing them to the bulkhead (D13).

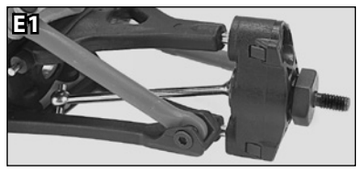




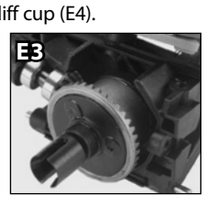
Insert the screws through the toe link ends before tightening them.

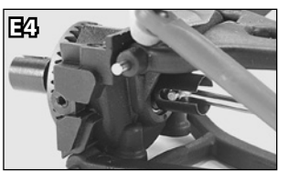
Front and Final Assembly:

31. Locate the two metal driveshaft assemblies, and slide the axles through the inside of each of the front hub carriers. Make sure to seat the axles into the ball bearings. Install the drive pins and the wheel hexes onto the axles to keep them in position (E1).

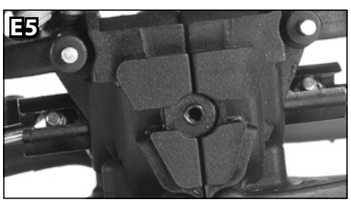


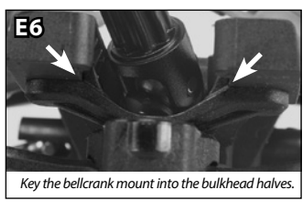
32. Position the front pinion gear assembly into the left-side bulkhead half (E2). Install the assembled differential into the bulkhead half (E3). Insert the driveshaft into the diff cup (E4).





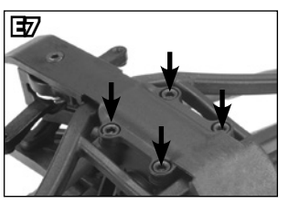
33. Slide the right-side bulkhead half onto the diff. Insert the right driveshaft into the diff cup and connect the two bulkhead halves together (E5). ***Note:*** *When joining the two front bulkhead halves together, make sure to connect (key in) the steering bellcrank mount between the two halves (E6).*



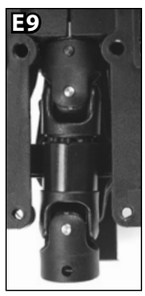


Key the bellcrank mount into the bulkhead halves.

34. Install the front bulkhead brace onto the front suspension pins and connect it to the front bulkhead. Secure the brace with the 2.5x6mm cap head screw. Next, install the front skid plate onto the front end assembly, and secure it with the four 2.5x8mm cap head screws and the 2.5x12mm countersunk screw (E7).

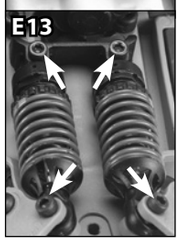


35. Before joining the front end assembly to the chassis, remove the front center driveshaft from the transmission. Remove the screw pin and pull the shaft and yoke off of the output shaft (E8). Join the removed shaft half with the shaft half connected to the front differential. Make sure that the drive shaft halves are keyed in correctly (E9).

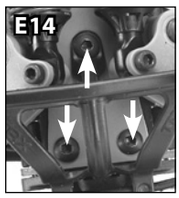


36. Slide the front end assembly onto the chassis in the same manner it was removed. Make sure to reconnect the front center driveshaft to the front output shaft of the transmission. Secure it with the same screw pin (E10). Next, secure the front end to the chassis with the same two 3x10mm button head screws (E11).

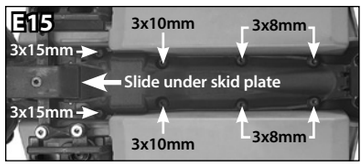
37. Place the front upper shock mount onto the chassis (E12), and secure the shocks to the shock mount and the rocker arms with the same 2.5x18mm and 2.5x10mm cap head screws (E13).



38. Attach the front bumper and body mount assembly to the chassis. Secure the body mount to the chassis with the 3x6mm and two 3x10mm button head screws (E14).



39. Attach the center skid plate onto the chassis and secure it with the same screws: (4) 3x8mm, (2) 3x10mm, and (2) 3x15mm button head screws. ***Note:*** *The front edge of the center skid plate must slide underneath the front skid plate (E15).* **Tip:** Loosen (or remove) the steering bellcrank screw to allow the front skid plate to flex for easier installation.



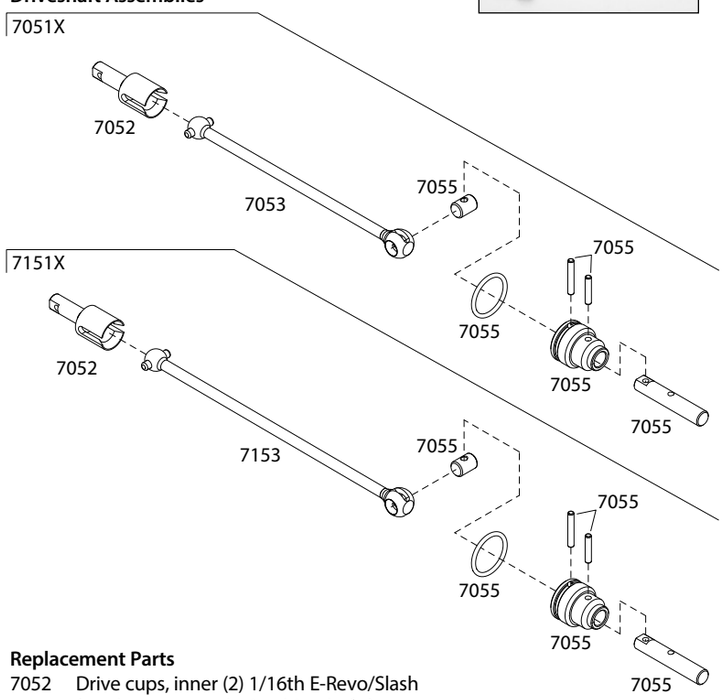
40. Finally, install the wheels onto the axles.

Appendix:

Metal driveshaft disassembly:

- Remove the drive pin from the drive cup; then, pull the axle from the cup.
- Remove the O-ring from the drive cup to access the large drive pin. Press the large drive pin out of the drive cup; then, pull the driveshaft out of the drive cup. The round cross pin should fall out of the driveshaft.

Driveshaft Assemblies



Replacement Parts

7052 Drive cups, inner (2) 1/16th E-Revo/Slash (steel constant-velocity driveshafts)

7053 Driveshaft, steel constant-velocity, 1/16th Slash (shaft only, 48mm)/ drive cup pin (1)

7055 Rebuild kit (for 1/16th E-Revo/Slash steel constant-velocity driveshafts) (includes pins, O-rings, stub axles for driveshafts assemblies)

7153 Driveshaft, steel constant-velocity, 1/16th E-Revo (shaft only, 68mm)/ drive cup pin (1)

If you have questions or need technical assistance, call Traxxas at

1-888-TRAXXAS

(1-888-872-9927) (U.S. residents only)

Traxxas, 6200 Traxxas Way, McKinney, TX 75070, Phone: 972-549-3000, Fax: 972-549-3011, e-mail: support@Traxxas.com