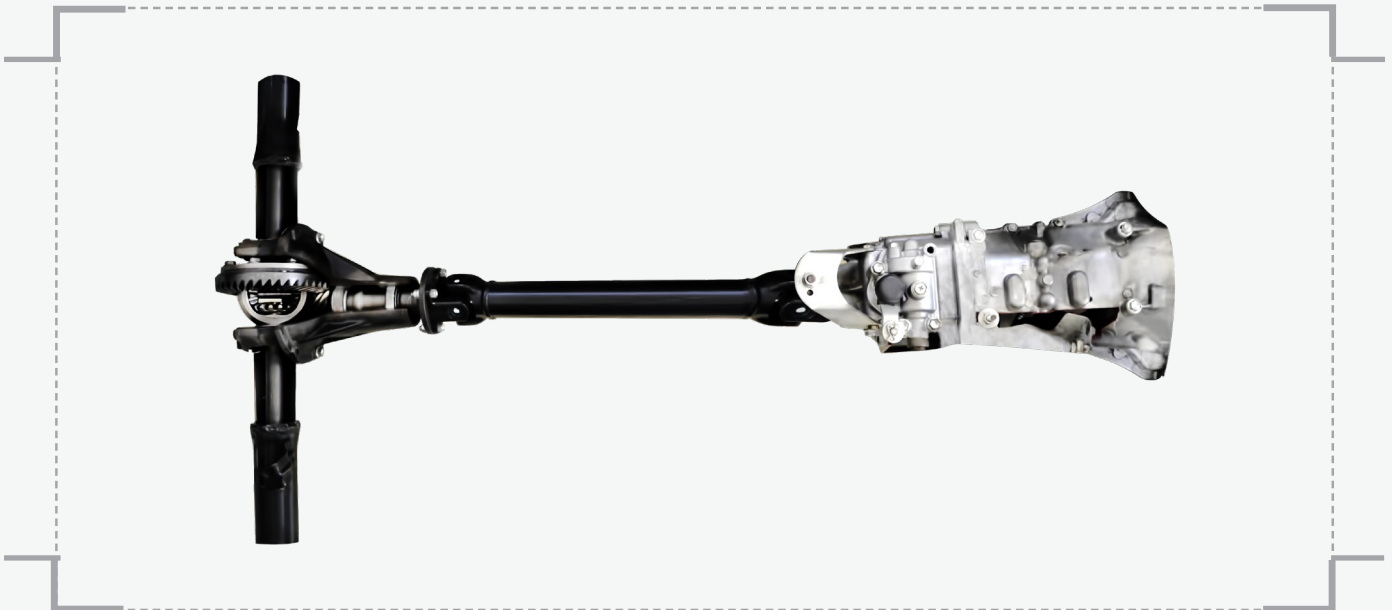


# Automatic RWD Configuration Cutaway

## Overview

This cutaway aims at demonstrating the components and functionality of an automatic RWD transaxle assembly. Knowing that the transaxle is a single mechanical device which integrates the functions of an automotive transmission, axle, and differential into one assembly. The unit features an assembly that includes an automatic transmission, propeller shaft, differential, rear-wheel hubs and end driveshafts. This assembly comes with exposed joints and it is sectioned and showcased with color contrasted components at certain locations to allow the trainee to observe the internal structure, components, and operation.



## Specifications

- RWD automatic gearbox cutaway, rear differential cutaway, rear wheel hubs, propeller shaft, and end drive shafts, all mounted on a robust frame which can be easily relocated.
- The unit introduces the trainee to the concept of power transmission to rear wheels by a gear box and propeller shaft, and further division between left and right rear wheels.
- The unit features a section in a 5-speed automatic transaxle.
- The transaxle cutaway helps the trainee understand the internal construction, components and operation of the transaxle, and how an automatic gearbox

and a differential are integrated into one housing to form the transaxle.

- The rear differential cutaway helps the trainee understand its internal construction, components and operation, in addition to how the right and left output shafts rotation may vary with each other.
- The automatic gearbox cutaway helps the trainee understand its internal construction, components and operation, in addition to how to achieve different gear ratios.
- The wheel hubs are also sectioned to view their internal construction.
- An electric motor to simulate the effect of the engine.

- The protective rubber covers normally found on the end drive shafts or propeller shaft joints are removed to indicate how such joints allow rotational motion to be

transferred between non-parallel shafts at varying angles.

- Different color cross-sections provide contrast to easily differentiate components from each other.

## Experiments

- Understanding the functionality and operation of the manual RWD transaxle system
- Understanding the function and usage of each part of the manual RWD transaxle system
- Observation of the internal parts and locations of the gear box, the differential, wheel hubs and end drive shaft in this type of transaxles.

- Understanding how the power generated from the engine in an earlier stage is transmitted through the gear box to the propeller shaft then to the differential at the back, then to the driving axle which in turn rotates the rear wheels.
- Observing how the differential transfers power to the axles and wheels.

## Scope of Delivery

- Automatic RWD configuration cutaway (DPA103)
- Hard copy user manual

## Options

- Digital content (BI01)