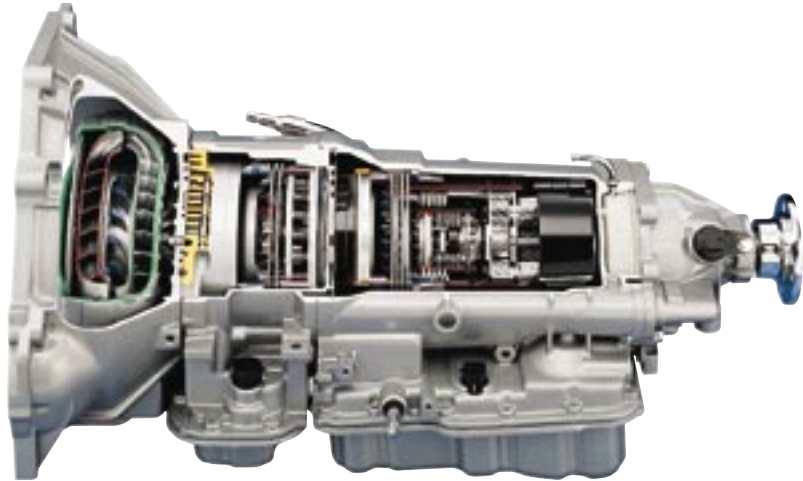

Hydra-matic

4L30-E

Transmission - 1997

The Hydra-matic 4L30-E provides maximum flexibility by using electronic controls and modular construction.



Product Summary

Transmission Type

4L30-E = 4: 4-Speed
L: Longitudinal Mount
Product Series
E: Electronic

Automatic Overdrive with a Torque Converter Clutch Assembly.

Current Engine Range

1.6L to 4.1L Gasoline
2.5L Diesel

Transmission Drive

Rear-Wheel Drive
4-Wheel Drive

Manufacturing Location

Strasbourg, France

Maximum Engine Torque

350 Nm (258 lb-ft)

Maximum Gearbox Input Torque

600 Nm (440 lb-ft)

The maximum torque limits are only to be used as a guide and may not be applicable under certain conditions.

Maximum Gross Vehicle Weight (Estimate)

3,500 kg (7,716 lb)

7-Position Quadrant

(P, R, N, D, 3, 2, 1)

Electronic Controls Features*

Driver Control

- Driver-controlled mode switch
- Higher gear starts
- Shift pressure profile
- Auto-adapt driving modes

Adaptive Capabilities

- Altitude compensation
- Temperature compensation
- Barometric compensation
- Adaptive pressure control
- Cruise control / shift pattern interaction
- AC compensation

Transmission/Engine Protection

- Over-rev protection
- Engine overspeed protection
- High-speed downshift protection
- Extreme heat protection
- Limp home mode

Diagnostic Capabilities

*Availability of specific electronic controls features depends upon application.

Transmission Specifications

Control Systems

Shift Pattern — (2) 3-Way On / Off Solenoids

Shift Quality —

(1) Force Motor

(1) "High Flow" Pulse Width Modulated Solenoid (for 3-2 Downshifts Only)

Torque Converter Clutch—

(1) 2-Way On / Off Solenoids

Additional transmission and engine sensors are provided depending on transmission /powertrain application.

Gear Ratios

	Base	Optional
1st:	2.400	2.860
2nd:	1.467	1.620
3rd:	1.000	1.000
4th:	0.723	0.723
Rev:	2.000	2.000

Maximum Shift Speed

1 - 2	6,500 rpm
2 - 3	6,500 rpm
3 - 4	6,500 rpm

The maximum shift speeds allowed are to be used as a guide. Each engine application must be calculated.

Transmission Fluid Type

Dexron® III

Converter Sizes Available

245 mm, 258 mm and 265 mm (Reference)

Converter Bolt Circle Diameters

For 245 mm Converter - 228.0 mm to 247.7 mm

For 258 mm Converter - 247.7 mm (Reference)

For 265 mm Converter - 227.0 mm to 247.7 mm

Converter Stall Torque Ratio Range

For 245 mm Converter - 1.63 to 2.70

For 258 mm Converter - 1.60 to 1.75

For 265 mm Converter - 1.80 to 3.00

Converter 'K' Factor Range

For 245 mm Converter - 122 to 260

For 258 mm Converter - 106 to 155

For 265 mm Converter - 100 to 185

Not all 'K' Factors are applicable across the range of Converter Stall Torque Ratios.

Transmission Fluid Capacities

Dry: 6.4L (7 qt) with 245 mm Converter

Transmission Weight

For 245 mm Converter

Dry: 69.1 kg (152.33 lb)

Wet: 76.0 kg (167.55 lb)

Transmission Packaging Information*

Overall Length**

730 mm to 794 mm (245 mm Converter)

734 mm to 799 mm (258 mm Converter)

739 mm to 802 mm (265 mm Converter)

Main Case (Reference)**

430.4 mm

Converter Housing

142.75 mm Minimum with 245 mm Converter

147.00 mm Minimum with 258 mm Converter

152.00 mm Minimum with 265 mm Converter

Extension Housing*

219.6 mm Minimum with Slip Yoke Design

115.0 mm Minimum with Fixed Yoke Design

70.0 mm Minimum with 4-Wheel Drive

Pressure Taps Available

Line Pressure

*All dimensions shown are nominal. See application manual for details

** Determined by customer requirements.

Information may vary with application. All specifications listed are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

Hydra-matic 4L30-E

1. Converter Housing
2. Converter Clutch Assembly
3. Turbine Shaft
4. Oil Pump Assembly
5. Adapter Case
6. Overdrive Free Wheel (Roller Type)
7. Overrun Clutch Plate Assembly
8. Overdrive Complete Carrier Assembly
9. Reverse Clutch Plate Assembly
10. 2nd Clutch Plate Assembly
11. 3rd Clutch Plate Assembly
12. Principle Free Wheel (Sprag Type)
13. Main Case
14. Extension Assembly
15. Output Shaft
16. Drive Flange
17. Speed Sensor Assembly
18. Speedo Wheel
19. Speedo Wheel Gear
20. Band Assembly
21. Planetary Carrier Assembly
22. Servo Piston
23. Selector Lever
24. Center Support
25. Main Case Valve Body Assembly
26. 4th Clutch Plate Assembly
27. Adapter Case Valve Body Assembly
28. T.C.C. Solenoid
29. Converter Pump Assembly
30. Stator
31. Turbine Assembly
32. Pressure Plate

