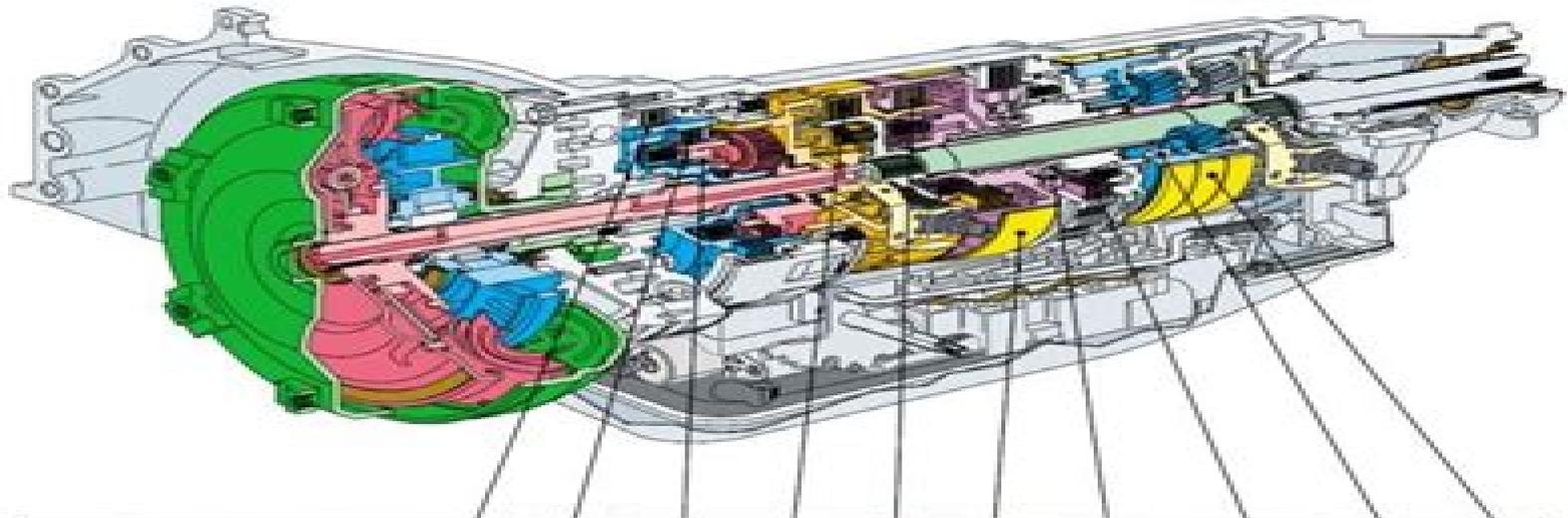


# RANGE REFERENCE CHART

## HYDRAMATIC 4L80-E - GEAR RATIOS

|        |      |         |      |
|--------|------|---------|------|
| FIRST  | 2.48 | FOURTH  | .75  |
| SECOND | 1.48 | REVERSE | 2.08 |
| THIRD  | 1.00 |         |      |



| RANGE      | GEAR    | 1,2 SHFT SOLENOID | 2,3 SHFT SOLENOID | FOURTH CLUTCH | OVERDRIVE CLUTCH | OVERDRIVE ROLLER CLUTCH | FORWARD CLUTCH | DIRECT CLUTCH | REVERSE 2:1 BAND | INTERMEDIATE SPRAG CLUTCH | INTERMEDIATE CLUTCH | LOW ROLLER CLUTCH | LOW AND REVERSE BAND |
|------------|---------|-------------------|-------------------|---------------|------------------|-------------------------|----------------|---------------|------------------|---------------------------|---------------------|-------------------|----------------------|
| <b>P-N</b> |         | ON                | OFF               |               |                  | HOLDING                 |                |               |                  |                           |                     |                   |                      |
| <b>R</b>   | REVERSE | ON                | OFF               |               |                  | HOLDING                 |                | APPLIED       |                  |                           |                     |                   | APPLIED              |
| <b>D</b>   | 1st     | ON                | OFF               |               |                  | HOLDING                 | APPLIED        |               |                  | *                         |                     | HOLDING           |                      |
|            | 2nd     | OFF               | OFF               |               |                  | HOLDING                 | APPLIED        |               |                  | HOLDING                   | APPLIED             | OVERRUNNING       |                      |
|            | 3rd     | OFF               | ON                |               |                  | HOLDING                 | APPLIED        | APPLIED       |                  | OVERRUNNING               | APPLIED             | OVERRUNNING       |                      |
|            | 4th     | ON                | ON                | APPLIED       |                  | OVERRUNNING             | APPLIED        | APPLIED       |                  | OVERRUNNING               | APPLIED             | OVERRUNNING       |                      |
| <b>D</b>   | 1st     | ON                | OFF               |               | APPLIED          | HOLDING                 | APPLIED        |               |                  | *                         |                     | HOLDING           |                      |
|            | 2nd     | OFF               | OFF               |               | APPLIED          | HOLDING                 | APPLIED        |               |                  | HOLDING                   | APPLIED             | OVERRUNNING       |                      |
|            | 3rd     | OFF               | ON                |               | APPLIED          | HOLDING                 | APPLIED        | APPLIED       |                  | OVERRUNNING               | APPLIED             | OVERRUNNING       |                      |
| <b>2</b>   | 1st     | ON                | OFF               |               | APPLIED          | HOLDING                 | APPLIED        |               |                  | *                         |                     | HOLDING           |                      |
|            | 2nd     | OFF               | OFF               |               | APPLIED          | HOLDING                 | APPLIED        |               | APPLIED          | HOLDING                   | APPLIED             | OVERRUNNING       |                      |
| <b>1</b>   | 1st     | ON                | OFF               |               | APPLIED          | HOLDING                 | APPLIED        |               |                  | *                         |                     | HOLDING           | APPLIED              |
|            | 2nd     | OFF               | OFF               |               | APPLIED          | HOLDING                 | APPLIED        |               | APPLIED          | HOLDING                   | APPLIED             | OVERRUNNING       |                      |

\*HOLDING BUT NOT EFFECTIVE

⊗ THE SOLENOID'S STATE FOLLOWS A SHIFT PATTERN WHICH DEPENDS UPON VEHICLE SPEED AND THROTTLE POSITION. IT DOES NOT DEPEND UPON THE SELECTED GEAR.

ON = SOLENOID ENERGIZED  
OFF = SOLENOID DE-ENERGIZED

NOTE: DESCRIPTIONS ABOVE EXPLAIN COMPONENT FUNCTION DURING ACCELERATION.

Figure 10

# Automatic Transmission Interchange Guide

**Raffaela Di Napoli**



## **Automatic Transmission Interchange Guide:**

## Embracing the Beat of Expression: An Mental Symphony within **Automatic Transmission Interchange Guide**

In a world taken by displays and the ceaseless chatter of quick interaction, the melodic elegance and emotional symphony produced by the prepared term frequently fade into the back ground, eclipsed by the relentless sound and disturbances that permeate our lives. Nevertheless, located within the pages of **Automatic Transmission Interchange Guide** a wonderful literary prize filled with raw feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, that interesting masterpiece conducts visitors on a psychological journey, well unraveling the concealed tunes and profound impact resonating within each carefully crafted phrase. Within the depths of this touching assessment, we will investigate the book is key harmonies, analyze their enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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web dec 29 2017 vhdl uses a similar description however it has its own syntax for example it uses the following lines of code to describe the input and output ports of this circuit 1 entity circuit 1 is 2 port a in std logic 3 b in std logic 4 out1 out std logic 5 end circuit 1

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web apr 29 2016 vhdl was created in the 1980s to develop a high speed integrated circuit it has since become an industry standard language for describing digital systems at the structural or behavioral levels in a text based format the vhdl file can be used to manufacture a physical circuit such as a motherboard processor or memory module

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web basic logic gates esd chapter 2 figure 2 3 every vhdl design description consists of at least one entity architecture pair or one entity with multiple architectures the entity section of the hdl design is used to declare the i o ports of the circuit while the description code resides within architecture portion

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web quartus and vhdl code in this section you should learn how to implement a vhdl code for single cycle data path before we go any further let s define some of the terms that we use throughout the book entity all designs are expressed in terms of entities an entity is the most basic building block in a design