

## TIGHTENING TORQUES

|                                                              | Nm  | lbf.ft. |
|--------------------------------------------------------------|-----|---------|
| Cooler line nuts .....                                       | 12  | 9       |
| Converter drive plate to crankshaft bolt .....               | 75  | 55      |
| Drive plate to converter bolts .....                         | 31  | 23      |
| Rear extension to casing bolt .....                          | 43  | 32      |
| Rear mounting to rear extension bolts .....                  | 68  | 50      |
| Drive flange coupling nut .....                              | 237 | 175     |
| Rear extension to insulator mounting bolt .....              | 68  | 50      |
| Governor body to support bolts .....                         | 12  | 9       |
| Kickdown band adjusting screw locknut .....                  | 41  | 30      |
| Kickdown band adjusting screw .....                          | 6   | 4.5     |
| Neutral and reverse light switch .....                       | 33  | 24      |
| Sump setscrews .....                                         | 17  | 13      |
| Filter screws .....                                          | 4   | 3       |
| Oil pump housing to transmission case bolts .....            | 20  | 15      |
| Output shaft support bolt .....                              | 17  | 13      |
| Overrunning clutch cam set screw .....                       | 5   | 4       |
| Pressure test take-off plug .....                            | 12  | 9       |
| Reaction shaft support to oil pump bolt .....                | 17  | 13      |
| Reverse band adjusting screw locknut .....                   | 41  | 30      |
| Reverse band adjusting screw .....                           | 6   | 4.5     |
| Speedometer drive clamp screw .....                          | 11  | 8       |
| Transmission to engine bolts .....                           | 41  | 30      |
| Valve block screws .....                                     | 4   | 3       |
| Valve block to casing setscrews .....                        | 11  | 8       |
| Dust cover plate to transmission bolts (Petrol engine) ..... | 5   | 4       |
| Strut to dust cover bolts (Petrol engine) .....              | 34  | 25      |
| Strut to engine block bolts (Petrol engine) .....            | 68  | 50      |
| Struts to transmission bolts (Diesel engine) .....           | 47  | 35      |
| Struts to engine block bolts (Diesel engine) .....           | 75  | 55      |

## DATA

## TRANSMISSION

|                                   |                                          |
|-----------------------------------|------------------------------------------|
| Type .....                        | Three speed automatic                    |
| Model .....                       | A-727                                    |
| Torque converter diameter .....   | 273 mm (10.75 in)                        |
| Fluid .....                       | Dexron type automatic transmission fluid |
| Capacity                          |                                          |
| Transmission and torque converter |                                          |
| Dry fill .....                    | 8.1 litres (14.3 pints)                  |
| Changing fluid .....              | 3.6 litres (6.5 pints)                   |
| Cooling .....                     | Air cooler mounted in front of radiator  |
| Lubrication .....                 | Pump (Rotor type)                        |
| Gear ratios                       |                                          |
| 1 — Low .....                     | 2.45 : 1                                 |
| 2 — Second .....                  | 1.45 : 1                                 |
| D — Drive .....                   | 1.0 : 1                                  |
| R — Reverse .....                 | 2.2 : 1                                  |

## GEAR CHANGE SPEEDS

| Axle Ratio                                          | 4.273:1  |       | 4.273:1             |       | 4.875:1             |       | 4.875:1             |       | 5.430:1             |       | 6.000:1             |       |
|-----------------------------------------------------|----------|-------|---------------------|-------|---------------------|-------|---------------------|-------|---------------------|-------|---------------------|-------|
| Tyre Size                                           | 6.50R-16 |       | 7.00R-16<br>8R17.5C |       | 6.50R-16<br>8R17.5C |       | 7.00R-16<br>8R17.5C |       | 7.00R-16<br>8R17.5C |       | 7.00R-16<br>8R17.5C |       |
|                                                     | Km/hr    | MPH   | Km/hr               | MPH   | Km/hr               | MPH   | Km/hr               | MPH   | Km/hr               | MPH   | Km/hr               | MPH   |
| Light Throttle                                      |          |       |                     |       |                     |       |                     |       |                     |       |                     |       |
| 1-2 Upshift                                         | 13-18    | 8-11  | 13-18               | 8-11  | 11-17               | 7-10  | 11-17               | 7-10  | 10-15               | 6-9   | 9-14                | 5-9   |
| 2-3 Upshift                                         | 18-15    | 11-15 | 18-25               | 11-15 | 16-22               | 10-14 | 16-22               | 10-14 | 14-20               | 9-13  | 13-19               | 8-12  |
| Full Throttle                                       |          |       |                     |       |                     |       |                     |       |                     |       |                     |       |
| 1-2 Upshift                                         | 34-42    | 21-26 | 34-42               | 21-26 | 30-37               | 19-23 | 30-37               | 19-23 | 27-34               | 17-21 | 24-31               | 15-19 |
| 2-3 Upshift                                         | 52-66    | 32-41 | 52-66               | 32-41 | 45-58               | 28-36 | 45-58               | 28-36 | 41-53               | 25-33 | 37-48               | 23-30 |
| Wide Open Throttle                                  |          |       |                     |       |                     |       |                     |       |                     |       |                     |       |
| 1-2 Upshift                                         | 44-52    | 27-32 | 44-52               | 27-33 | 38-47               | 24-29 | 38-47               | 24-29 | 35-42               | 21-26 | 31-38               | 19-24 |
| 2-3 Upshift                                         | 68-86    | 42-53 | 68-86               | 42-53 | 60-76               | 37-47 | 60-76               | 37-47 | 54-68               | 34-43 | 49-61               | 31-39 |
| Kickdown Range                                      |          |       |                     |       |                     |       |                     |       |                     |       |                     |       |
| 3-2 Downshift                                       | 62-79    | 38-49 | 62-79               | 38-49 | 54-69               | 34-43 | 54-69               | 34-43 | 49-62               | 31-39 | 44-57               | 28-35 |
| 3-1 Downshift                                       | 40-48    | 25-30 | 40-48               | 25-30 | 35-43               | 22-27 | 35-43               | 22-27 | 32-39               | 20-24 | 29-36               | 18-22 |
| Max. speed at which '2' should be selected manually | 72       | 45    | 72                  | 45    | 64                  | 40    | 64                  | 40    | 56                  | 35    | 48                  | 30    |

## MANUFACTURING DATA

|                                                 | Millimetres | Inches        |
|-------------------------------------------------|-------------|---------------|
| <b>PUMP CLEARANCES</b>                          |             |               |
| Outer rotor to case bore .....                  | 0.088/0.19  | 0.0035/0.0075 |
| Outer to inner tip .....                        | 0.114/0.24  | 0.0045/0.0095 |
| End clearance — rotors .....                    | 0.025/0.076 | 0.001/0.003   |
| <b>GEAR TRAIN END PLAY</b> .....                | 0.228/1.117 | 0.009/0.044   |
| <b>INPUT SHAFT END PLAY</b> .....               | 0.914/2.133 | 0.036/0.084   |
| <b>SNAP RINGS</b>                               |             |               |
| Rear clutch snap ring (selective) .....         | 1.524/1.574 | 0.06/0.062    |
|                                                 | 1.879/1.930 | 0.074/0.076   |
|                                                 | 2.235/2.286 | 0.083/0.090   |
|                                                 | 2.692/2.743 | 0.106/0.108   |
| Output shaft (forward end)                      |             |               |
| Selective .....                                 | 1.219/1.321 | 0.048/0.052   |
|                                                 | 1.397/1.498 | 0.055/0.059   |
|                                                 | 1.574/1.676 | 0.062/0.066   |
| <b>FRONT CLUTCH</b>                             |             |               |
| Clearance .....                                 | 1.778/3.276 | 0.070/0.129   |
| Discs — 3 off                                   |             |               |
| Springs — 13 off                                |             |               |
| <b>REAR CLUTCH</b>                              |             |               |
| Clearance .....                                 | 0.635/1.143 | 0.025/0.045   |
| Discs — 4 off                                   |             |               |
| Springs — 1 off                                 |             |               |
| <b>THRUST WASHERS</b>                           |             |               |
| Reaction shaft support to front clutch retainer |             |               |
| Selective: Natural .....                        | 1.549/1.600 | 0.061/0.063   |
| Red .....                                       | 2.133/2.184 | 0.084/0.086   |
| Yellow .....                                    | 2.590/2.641 | 0.102/0.104   |
| Front clutch to rear clutch .....               | 1.549/1.600 | 0.061/0.063   |
| Input shaft to output shaft .....               | 1.574/1.625 | 0.062/0.064   |
| Output shaft thrust plate .....                 | 0.762/0.939 | 0.030/0.037   |
| Front annulus support to front carrier .....    | 1.498/1.574 | 0.059/0.062   |
| Front annulus support to driving shell .....    | 1.524/1.574 | 0.060/0.062   |
| Driving shell thrust plate .....                | 0.863/0.914 | 0.034/0.036   |
| Rear carrier to driving shell .....             | 1.498/1.574 | 0.059/0.062   |
| Rear annulus thrust plate .....                 | 0.863/0.914 | 0.034/0.036   |