



Technical Service Information

TOYOTA PRIUS - GEN-1

MISLEADING DTCs

COMPLAINT: A 2001 to 2003 Toyota Prius may have complaints of the Master Warning Lamp illuminated (Figure 1), with the following DTCs stored:
P1636 - HV ECU Malfunction.
P3002 - HV Serial Communication Abnormality.
P3120 - Transaxle Assembly Malfunction with Information Code 253 - Generator Resolver
Inter-Phase short, Refer to Figures 2 and 3.
C1213 - HV System Communication Circuit Malfunction.

Technicians Note:

Although Toyota provides diagnostic trouble trees for these codes this is a total mis-direction of what will actually fix the car.

If the technician were to follow the diagnostic trouble tree for each of these codes, the following parts and service would have been performed:

P1636 - Inspect and repair ECM wiring harness or replace ECM.

P3002 - Replace HV ECU

P3120 - Inspect and repair HV ECU to Resolver wiring harness or replace transaxle generator yet the data indicates the Generator Resolver is functional, Refer to Figure 4.

C1213 - Replace HV ECU.

It is a good practice to always check the basics first.

CAUSE: The vehicles 12 Volt Battery is discharged.

CORRECTION: Replace the 12 Volt Battery (See Figure 5).

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The Master Warning Lamp is illuminated yet the “Ready” Lamp is on.

Figure 1

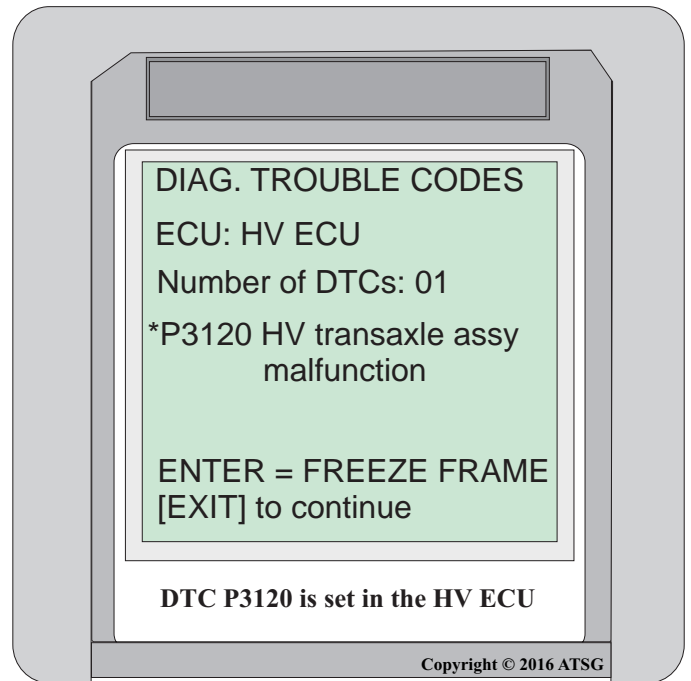


Figure 2

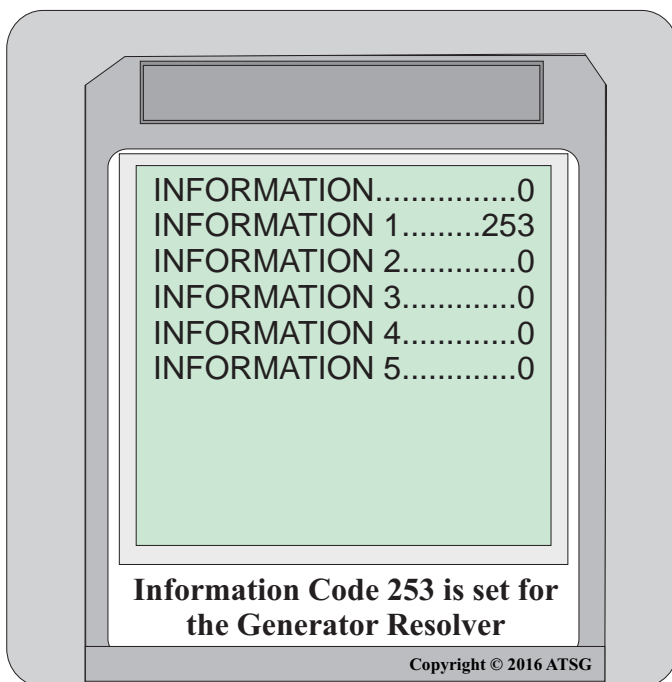


Figure 3

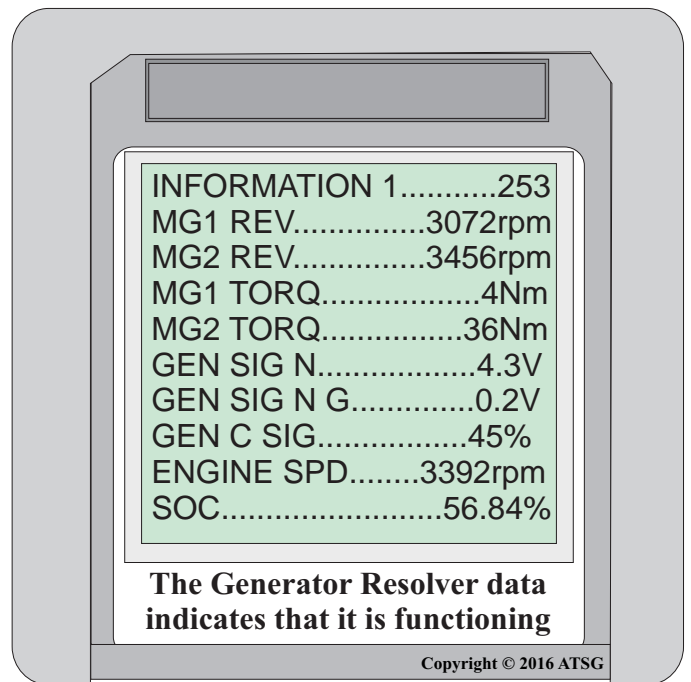


Figure 4

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A battery booster connected to the 12 volt battery extinguished the Master Warning Lamp & DTCs were cleared. A new 12 volt battery restored the vehicle to proper working condition.

Figure 5