DI563-10

DTC□	P0133/21 Oxygen Sensor Circuit Slow Response
	(Bank 1 Sensor 1)

DTC | P0153/28 Oxygen Sensor Circuit Slow Response (Bank 2 Sensor 1)

CIRCUIT DESCRIPTION

Refer $[lo]DTC[P0125/91]\phi n[page[DI-30]$.

DTC[No.	DTC[Detecting[Condition	Trouble[A rea
P0133/21 P0153/28	from@ich@lean,@r@rom@ean@o@ich,@s 1.1@ec.@r@nore@uring idling@fter@engine@s@varmed@up@2@rip@detection@ogic)	Den frighort in faxygen is ensor fricuit Daygen is ensor Air induction is ystem Fuel fressure Injector Engine FCU

HINT:

- □ Bank 11refers to bank that includes cylinder No.1.
- •□ Bank[2]refers[to][bank[that[does[not[include[c]ylinder[No.1.
- Sensor Trefers to the Sensor Coser to the Engine Dody.

WIRING DIAGRAM

Refer[]o[]DTC[]P0125/91[]on[]page[]DI-30.

INSPECTION PROCEDURE

When using hand-held tester:

HINT:

Read[freeze[frame[data[using[hand-held[tester.]Because[freeze[frame[lecords[the]engine[conditions]when the malfunction[is[detected.]When[froubleshooting[it]s[useful[for[determining]whether[the[was[funning[or[stopped,[the]engine]was[warmed[up[or[hot,[the]eir-fuel[fatio]was[lean[or[dich,[etc.]ett]the[time[of[the]malfunction.]]]

1 Are[there@any[other@codes[(besides[DTC[P0133[or[P0153)[being[output?

YES

Go[to[relevant[DTC[chart[See[page[DI-18])]]

NO

2∏

Check output voltage of xygen sensor during dling.

PREPARATION:

Warm up the oxygen sensor with the engine speed at 2,500 pm for approx. 90 sec.

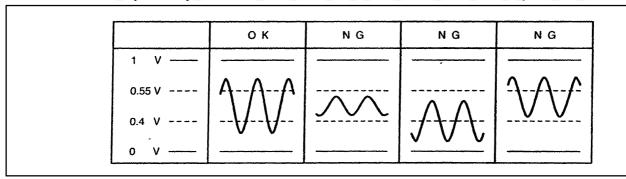
CHECK:

Use[the[hand-held[tester[to]]read[the[output[voltage[of[the[oxygen[sensor[during[idling.

OK:

Oxygen[sensor[output[voltage:

Alternates[repeatedly[between]ess[than[0.4]V[and[more[than[0.55]V[See[the[following]table).



P18349

OK[]

Go[to[step[7

NG

3 Check[for[open[and[short]]n[harness[and[connector[between[engine]ECU[and oxygen[sensor[[See[page]]N-19]]]

NG

Repair or replace harness or connector.

OK

4 Check air induction system (See Pub. No. RM630E on page FI-1).

NG

Repair or replace.

OK

DIAGNOSTICS - ENGINE 5∏ Check[fuel[pressure[See[Pub.[No.[RM630E[on[page[FI-1]] Check@ndrepairfuelpump,pressureregulator, fuelpipeline@ndrilter(SeePub.No.RM630Eon NG[page[FI-1] OK 6∏ Check[injector[injection[[See[Pub.[No.[RM630E[on[page[FI-29]. NG[Replace[injector. OK Replace oxygen sensor. Perform confirmation driving pattern See page DI-54). **7**[GO Is[there[DTC[P0133[or[P0153[being[output[again? 8[] NO[Check[for[intermittent[problems (See page DI-4) YES

Checkandreplace engine ECU (See page N-19)

When hot using hand-held tester:

1 | Are[there]any[other]codes[(besides]code]21[or]28)[being]output?

YES

Go[to[relevant[DTC[chart[See[page[DI-18])]]

NO

Replace oxygen sensor.