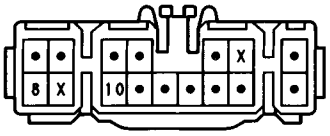
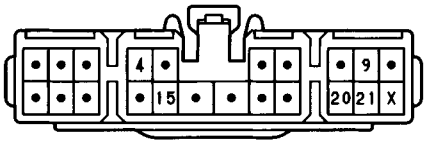
C12 (A)

C13 (B) ORANGE

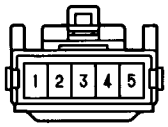


J 1



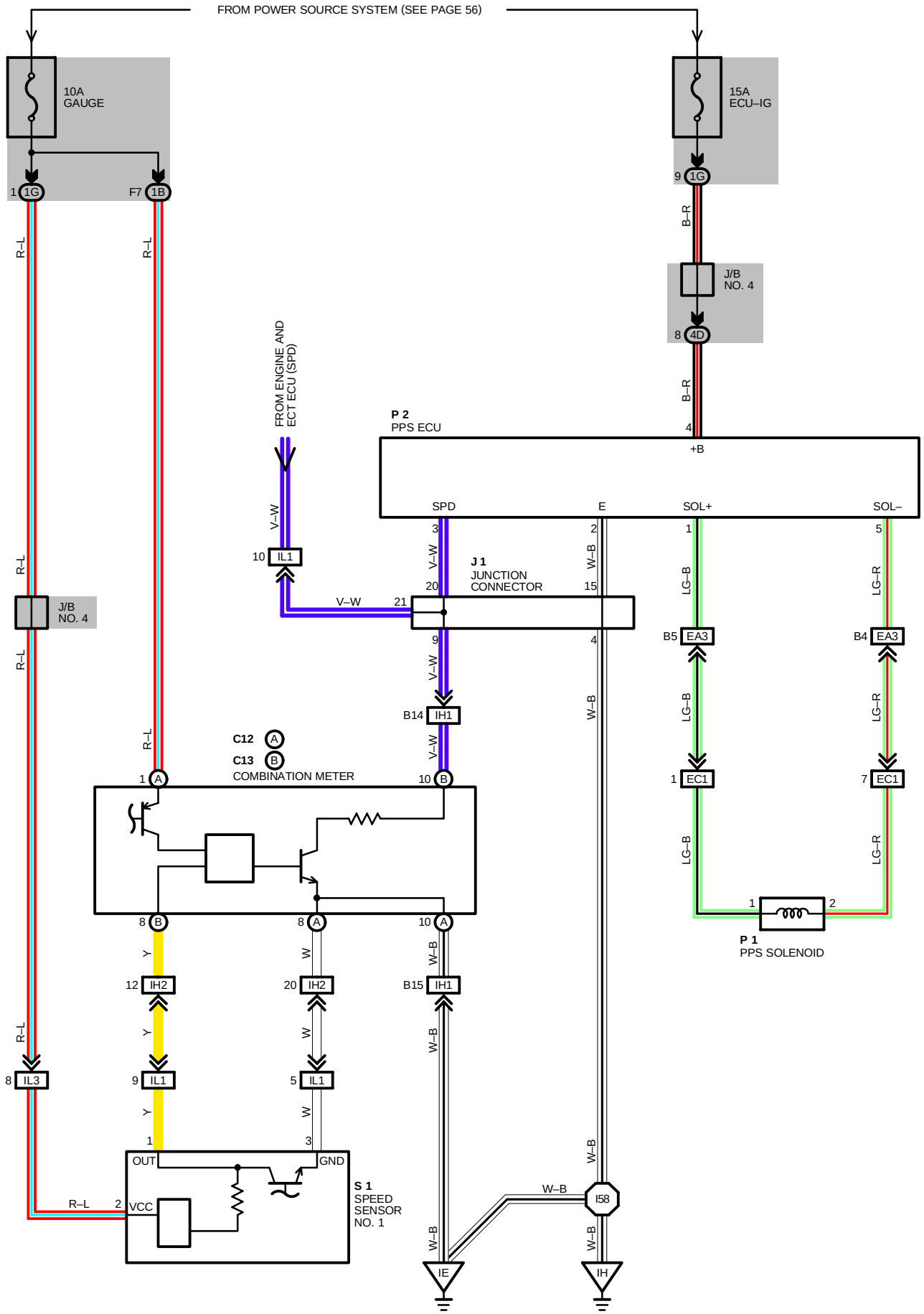
P 1 GRAY

P 2



S 1 GRAY

PPS (PROGRESSIVE POWER STEERING)



SYSTEM OUTLINE

THE PPS (HYDRAULIC REACTION TYPE) CONTROLS THE HYDRAULIC PRESSURE APPLIED TO THE HYDRAULIC REACTION CHAMBER IN THE GEAR BOX CONTROL USING THE PPS ECU, TO CHANGE THE STEERING FORCE AND PROVIDE OPTIMUM STEERING FEELING AT ANY VEHICLE SPEED AND UNDER ANY STEERING CONDITIONS.

(PPS OPERATION)

WHEN THE IGNITION SW IS TURNED ON THE STARTING CURRENT FLOWS FROM THE ECU–IG FUSE TO **TERMINAL 4** OF THE PPS ECU. THE SPEED SENSOR MONITORS THE VEHICLE SPEED AND TRANSMITS CONTROL SIGNALS TO **TERMINAL 3** OF THE ECU.

WHEN THE VEHICLE SPEED IS LOW, THE PPS ECU SENDS A HIGHER–VOLTAGE FROM **TERMINAL 1** OF THE ECU → **TERMINAL 1** OF THE SOLENOID VALVE → **TERMINAL 2** → **TERMINAL 5** OF THE ECU → **TERMINAL 2** → **GROUND**, INCREASING THE SOLENOID VALVE OPENING ANGLE TO PROVIDE COMFORTABLE STEERING OPERATION. WHEN THE VEHICLE SPEED IS HIGH, THE PPS ECU DECREASES THE SOLENOID VALVE OPENING ANGLE BY REDUCING THE VOLTAGE TO THE VALVE TO PROVIDE RESPONSIVE STEERING FEELING.

SERVICE HINTS

P 1 PPS SOLENOID
1–2 : APPROX. **7.7**Ω (**25**˚C, **77**˚F)

P 2 PPS ECU
4–GROUND : APPROX. **12** VOLTS WITH IGNITION SW AT **ON** POSITION
2–GROUND : ALWAYS CONTINUITY
1–5 : APPROX. **0.8**A WITH VEHICLE SPEED BELOW **20**KM/H (**12**MPH)
APPROX. **0.45**A WITH VEHICLE SPEED AT **80**KM/H (**48**MPH)
APPROX. **0.2**A WITH VEHICLE SPEED ABOVE **160**KM/H (**96**MPH)

: PARTS LOCATION

CODE		SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C12	A	26	**J 1**	27	**P 2**	27
C13	B	26	**P 1**	25	**S 1**	25

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1B	18	INSTRUMENT PANEL WIRE AND J/B NO.1 (LEFT SIDE OF STEERING COLUMN TUBE)
1G	18	COWL WIRE AND J/B NO.1 (LEFT SIDE OF STEERING COLUMN TUBE)
4D	23	COWL WIRE AND J/B NO.4 (BEHIND THE COMBINATION METER)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EA3	32	COWL WIRE AND ENGINE ROOM MAIN WIRE (INSIDE OF J/B NO.2)
EC1	32	ENGINE NO.4 WIRE, FOR ALTERNATOR AND ENGINE ROOM MAIN WIRE (RIGHT SIDE OF J/B NO.2)
IH1	34	INSTRUMENT PANEL WIRE AND COWL WIRE (J/B NO.1)
IH2	34	INSTRUMENT PANEL WIRE AND COWL WIRE (BEHIND GLOVE BOX)
IL1	36	ENGINE WIRE AND COWL WIRE (UNDER THE GLOVE BOX)
IL3		

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
IE	34	LEFT KICK PANEL
IH	34	RIGHT KICK PANEL

: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 58	36	COWL WIRE			