

SOLENOID TEST:			
Solenoid	TranX Setting	Output Channel	Resistance Cold-Hot
A Solenoid	Gear 1	1	2.4 – 5.0 Ω
B Solenoid	Gear 2	2	2.4 – 5.0 Ω
C Solenoid	Gear 3	3	2.4 – 5.0 Ω
D Solenoid	Gear 4	4	2.4 – 5.0 Ω
F Solenoid	Gear 5	5	2.4 – 5.0 Ω
E Solenoid	Gear 6	6	2.4 – 5.0 Ω
G Solenoid	Gear 7	7	2.4 – 5.0 Ω
N Solenoid	Gear 8	8	2.4 – 5.0 Ω
J Solenoid	Gear 9	9	2.4 – 5.0 Ω

NOTE:
Duty cycle of all shift solenoids set to 50% in solenoid test. Resistance will read 2x actual value.

CAUTION:
Always come to a **COMPLETE STOP & TURN ENGINE OFF** before changing test modes

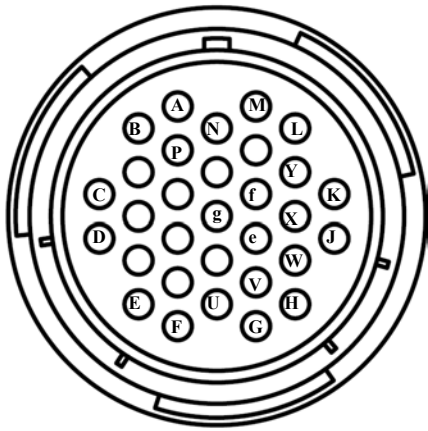
SHIFT TEST									
GEAR	A	B	C	D	F	E	G	N	J
	Solenoid	Solenoid	Solenoid	Solenoid	Solenoid	Solenoid	Solenoid	Solenoid	Solenoid
(502 1) Reverse	ON	ON	ON	OFF	OFF	ON	OFF	OFF	OFF
(502 2) Neutral	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
(502 3) Low (7 speed only)	OFF	ON	OFF	OFF	OFF	OFF	ON	ON	ON
(503 1) First	OFF	ON	OFF	OFF	ON/OFF	ON	ON	OFF	OFF
(503 2) Second	OFF	ON	OFF	ON	ON/OFF	OFF	ON	OFF	OFF
(503 3) Third	OFF	ON	ON	OFF	ON/OFF	OFF	ON	OFF	OFF
(503 4) Fourth	OFF	OFF	OFF	OFF	ON/OFF	OFF	ON	OFF	OFF
(503 5) Fifth	ON	OFF	ON	OFF	ON/OFF	OFF	ON	OFF	OFF
(503 6) Sixth	ON	OFF	OFF	ON	ON/OFF	OFF	OFF	OFF	OFF

Notes:

- ◆ Use code 502 for Reverse, Neutral & Low Gears, use code 503 for Forward Drive Gears.
- ◆ Low Gear **only** on 7 speed
- ◆ See other side for **connector diagram**.
- ◆ Polarity = Common **Positive**

Transmission: **Allison MD Series WTEC III**

CONNECTOR:
(Looking into harness connector)



TOT Sensor Testing	
Connect Multimeter to Sensor Module Test Points 5 & 6	
Resistance	Temperature
962 Ω	68° F
1039 Ω	86° F
1118 Ω	104° F
1202 Ω	122° F
1288 Ω	140° F
1379 Ω	158° F
1472 Ω	176° F
1569 Ω	194° F
1670 Ω	212° F

SEE ALLISON WTEC III MANUAL FOR MORE INFORMATION

Wiring Chart				
Case Connector 32 Way Deutsch	TranX 2000 Harness Wire	Vehicle Function	TranX 2000 Output Location	TranX 2000 25 Way Pin
A	Red	Solenoid Power (A, D & J)		12
B	Pink	C Solenoid	Channel 3	5
C	Yellow	G Solenoid	Channel 7	1
D	Light Green	Sensor Power (+5V ECU)	Sensor 3 Test Point	17
E	Red/Brown	Solenoid Power (F)		13
F	Purple	F Solenoid	Channel 5	3
G	Blue	A Solenoid	Channel 1	7
H	Red	Solenoid Power (B & E)		12
J	Dark Green	B Solenoid	Channel 2	8
K	Brown	E Solenoid	Channel 6	4
L	Red/Brown	Solenoid Power (C & G)		13
M	Red/Green	D Solenoid	Channel 4	6
N	White/Red	Analog Ground	Sensor 6 Test Point	20
P	Red/Blue	TOT Sensor	Sensor 5 Test Point	19
U	White/Green	Turbine Speed Sensor Low	Sensor 8 Test Point	22
V	White/Purple	Turbine Speed Sensor High	Sensor 7 Test Point	21
W	White/Yellow	Trans ID		25
X	Orange	C3 Pressure Switch	Sensor 1 Test Point	15
Y	White	Oil Level Sensor	Sensor 2 Test Point	16
e	White/Blk	J Solenoid	Channel 9	9
f	Dark Green	N Solenoid	Channel 8	2
g	Red	Solenoid Power (H & N)		12