

Dedicated Harness Set: **07X223**

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

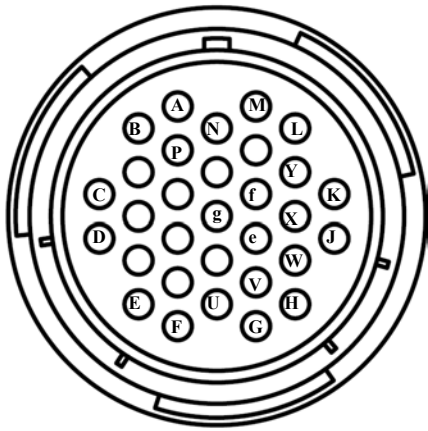
GEAR	A Solenoid	B Solenoid	C Solenoid	D Solenoid	F Solenoid (Lockup)	E Solenoid	G Solenoid	N Solenoid	J Solenoid
	(500 1) Reverse	ON	ON	ON	OFF	OFF	ON	OFF	OFF
(500 2) Neutral	ON	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
(500 3) Low (7 speed only)	OFF	ON	OFF	OFF	OFF	OFF	ON	ON	ON
(501 1) First	OFF	ON	OFF	OFF	ON/OFF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

Notes:

- ◆ Use code 500 for Reverse, Neutral & Low Gears, use code 501 for Forward Drive Gears.
- ◆ Low Gear **only** on 7 speed
- ◆ See other side for **connector diagram**.
- ◆ Polarity = Common **Negative**

Transmission: **Allison MD Series WTEC II**

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 II 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	Black	Solenoid Ground (A, D & J)		10
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	Purple	F Solenoid	Channel 5	3
F	Red/Black	Solenoid Ground (F)		11
G	Blue	A Solenoid	Channel 1	7
H	Black	Solenoid Ground (B & E)		10
J	Dark Green	B Solenoid	Channel 2	8
K	Brown	E Solenoid	Channel 6	4
L	Red/Black	Solenoid Ground (C & G)		11
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	Signal Ground		25
X	Orange	C3 Pressure Switch Power	Sensor 1 Test Point	15
Y	White	Oil Level Sensor	Sensor 2 Test Point	16
e	White/Blk	J Solenoid	Channel 9	9
f	Black	N Solenoid Ground		10
g	Dark Green	N solenoid	Channel 8	2