	MBE967e	e connection list		30/03/2000	0
	PIN No		DESIGNATION	NOTE	
			BEGIGNATION	NOTE	
	1		FUEL TRIM	Mapping Plug 06	
	2		WATER TEMPERATURE SIGNAL		
	3		AIR TEMPERATURE SIGNAL		
	4		5V ANALOGUE ANALOGUE GROUND	Mapping Plug 04	
	5		POWER GROUND	Mapping Plug 05 Mapping Plug 01	
	7		POWER GROUND		
	8		POWER GROUND		
	9		POWER GROUND		
	10		FUEL PRESSURE INPUT/GEAR POSITION		
	11		CRANK RETURN		
	12		CRANK SIGNAL		
	13		ECU SUPPLY		
	14		SERIAL RECEIVE	Mapping Plug 03	
	15		FAULT LIGHT / SWITCH		
	16		SHIFT LIGHT FUEL PUMP RELAY DRIVE	Switched Ground Switched Ground	
	17 18		IGNITION DRIVE 2	Cylinders 2 + 3	Not used if distributor fitted
	19		POWERSHIFT INPUT	Ground Active	
	20		THROTTLE SIGNAL		
	21		MAP SIGNAL (BOOST PRESSURE)	1	
	22		5V ANALOGUE		
	23		ANALOGUE GROUND		
	24		ANALOGUE GROUND		
	25		OIL TEMPERATURE		
	26			Mapping Plug 07	
	27 28		OIL PRESSURE BAROMETRIC PRESSURE SIGNAL / LAUNCH INPUT	+	
	28		LAMBDA SIGNAL		
	30		NOT USED	Not Used	
	31		NOT USED	Not Used	
	32		SERIAL TRANSMIT	Mapping Plug 02	
	33		RADIATOR FAN RELAY DRIVE	Switched Ground	
	34		TACHOMETER SIGNAL		
	35		INJECTOR OUTPUT	All Cylinders	
	36		IGNITION DRIVE 1	Cylinders 1+ 4	Coil drive if distributor fitted
TES:					
-					
1			und . I.e. to turn on the Shift Light, the ECU output is switch	i lite e con e l	
				ned to ground	
	These type	e of outputs are on pins:	are on pins 15, 16, 17 and 33	nea to ground	
2	These type The Mappi	of outputs are on pins: ng Plug should be wired	are on pins 15, 16, 17 and 33	led to ground	
2	These type The Mappi ECU Pin #	e of outputs are on pins: ng Plug should be wired Mapping Plug Pin #	are on pins 15, 16, 17 and 33		
2	These type The Mappi ECU Pin # 6	of outputs are on pins: ng Plug should be wirec Mapping Plug Pin # 1	are on pins 15, 16, 17 and 33		
2	These type The Mappi ECU Pin # 6 32	e of outputs are on pins: ng Plug should be wirec Mapping Plug Pin # 1 2	are on pins 15, 16, 17 and 33		
2	These type The Mappi ECU Pin # 6 32 14	e of outputs are on pins: ng Plug should be wirec Mapping Plug Pin # 1 2 3	are on pins 15, 16, 17 and 33		
2	These type The Mappi ECU Pin # 6 32 14 4	of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4	are on pins 15, 16, 17 and 33		
2	These type The Mappi ECU Pin # 6 32 14	e of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4 5	are on pins 15, 16, 17 and 33		
2	These type The Mappi ECU Pin # 6 32 14 4 5	of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4	are on pins 15, 16, 17 and 33		
3	These type The Mappi ECU Pin # 6 32 14 4 5 1 26 The Power	of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4 5 6 7 7 shift input should be sw	are on pins 15, 16, 17 and 33 as follows:		
3	These type The Mappi ECU Pin # 6 32 14 4 5 1 26 The Power The Vauxh	of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4 5 6 6 7 7 shift input should be sw all Crankshaft Sensor s	are on pins 15, 16, 17 and 33 as follows:		
3	These type           The Mappi           ECU Pin #           6           32           14           4           5           1           26           8 The Power           9 The Vauxh           Sensor #	of outputs are on pins: ng Plug should be wirec Mapping Plug Pin # 1 2 3 4 5 6 7 7 shift input should be sw all Crankshaft Sensor s ECU Pin #	are on pins 15, 16, 17 and 33 as follows:		
3	These type The Mappi ECU Pin # 6 32 14 4 5 1 26 3 The Power The Vauxh Sensor # 1	of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4 5 6 7 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11	are on pins 15, 16, 17 and 33 as follows:		-           -
3	These type           2 The Mappi           2 CU Pin #           6           32           14           4           5           1           26           3 The Power           The Vauxh           Sensor #           1           2	of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4 5 6 7 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12	are on pins 15, 16, 17 and 33 as follows:		
3	These type The Mappi ECU Pin # 6 32 14 4 5 1 26 The Power The Vauxh Sensor # 1 2 3	e of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4 5 6 6 7 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground	are on pins 15, 16, 17 and 33 as follows: the description of the second		
3	These type The Mappi ECU Pin # 6 32 14 4 5 1 26 The Power 5 The Power 1 2 3 The Thrott	of outputs are on pins: ng Plug should be wirec Mapping Plug Pin # 1 2 3 4 5 6 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS)	are on pins 15, 16, 17 and 33 as follows:		
3	These type The Mappi ECU Pin # 6 32 14 4 5 1 26 The Power 5 The Power 1 2 3 The Thrott	of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4 5 6 7 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin #	are on pins 15, 16, 17 and 33 as follows: the description of the second		-           -
3	These type           The Mappi           ECU Pin #           6           32           14           4           5           1           26           The Power           The Vauxh           Sensor #           1           2           3           The Thrott           Sensor #	of outputs are on pins: ng Plug should be wirec Mapping Plug Pin # 1 2 3 4 5 6 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS)	are on pins 15, 16, 17 and 33 as follows: the description of the second		
3	These type           2 The Mappi           2 CU Pin #           6           32           14           4           5           1           26           3 The Power           The Vauxh           Sensor #           1           2           3           The Thrott           Sensor #           1           2           3           The Thrott           Sensor #           1	of outputs are on pins: ng Plug should be wirec Mapping Plug Pin # 1 2 3 4 5 6 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin # TBA	are on pins 15, 16, 17 and 33 as follows: the description of the second	lea to ground	-           -
34	These type           The Mappi           ECU Pin #           6           32           14           4           5           1           26           The Power           The Vauxh           Sensor #           1           2           3           The Thrott           Sensor #           1           2           3           The Baron	of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4 5 6 7 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin # TBA TBA TBA TBA TBA	are on pins 15, 16, 17 and 33 as follows: the description of the second	led to ground	-           -
34	These type           2 The Mappi           2 The Mappi           ECU Pin #           6           32           14           4           5           1           26           3 The Power           1           2           3           5 The Noush           Sensor #           1           2           3           5 The Thrott           Sensor #           3           5 The Baron           Sensor #	of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4 5 6 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin # TBA	are on pins 15, 16, 17 and 33 as follows: itched to ground to activate the Powershift function hould be wired as follows: ) should be wired as follows:	lea to grouna	-           -
34	These type           The Mappi           ECU Pin #           6           32           14           4           5           1           26           The Power           The Vauxh           Sensor #           1           2           3           The Thrott           Sensor #           1           2           3           The Barom           Sensor #           A	of outputs are on pins: ng Plug should be wirec Mapping Plug Pin # 1 2 3 4 5 6 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin # TBA TBA TBA TBA TBA TBA TBA 23	are on pins 15, 16, 17 and 33 as follows: take to ground to activate the Powershift function hould be wired as follows: ) should be wired as follows:	lea to grouna	
34	These type           The Mappi           ECU Pin #           6           32           14           4           5           1           26           The Power           The Vauxh           Sensor #           1           2           3           The Throttt           Sensor #           1           2           3           The Baron           Sensor #           A           B	of outputs are on pins: ng Plug should be wirec Mapping Plug Pin # 1 2 3 4 5 6 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin # TBA TBA TBA TBA TBA 2 23 28	are on pins 15, 16, 17 and 33 as follows: itched to ground to activate the Powershift function hould be wired as follows: ) should be wired as follows:	lea to grouna	-           -
33 4 5 5 6	These type           The Mappi           ECU Pin #           6           32           14           4           5           1           26           The Power           The Vauxh           Sensor #           1           2           3           The Thrott           Sensor #           1           2           3           The Barom           Sensor #           A           B           C	of outputs are on pins: ng Plug should be wirec Mapping Plug Pin # 1 2 3 4 5 6 7 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground te Position Sensor (TPS ECU Pin # TBA TBA TBA TBA TBA 23 ECU Pin # 23 22 22	are on pins 15, 16, 17 and 33 as follows: itched to ground to activate the Powershift function hould be wired as follows: ) should be wired as follows: and the wired as follows: AND LAUNCH INPUT (ground active)	lea to ground	-           -
33 4 5 5 6	These type           2 The Mappi           2 The Mappi           ECU Pin #           6           32           14           4           5           1           26           3 The Power           1           2           3           5 The Nowsor #           1           2           3           5 The Thrott           Sensor #           1           2           3           5 The Baron           Sensor #           A           B           C           The Lambo	of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4 5 6 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin # TBA TBA TBA TBA TBA TBA TBA TBA TBA TBA 2 3 3 3 3 3 3 3 3 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	are on pins 15, 16, 17 and 33 as follows: itched to ground to activate the Powershift function hould be wired as follows: ) should be wired as follows: and the wired as follows: AND LAUNCH INPUT (ground active)	led to ground	-           -
33 4 5 5 6	These type           2 The Mappi           ECU Pin #           6           32           14           4           5           1           26           The Powel           The Vauxh           Sensor #           1           2           3           The Throttl           Sensor #           1           2           3           The Baron           Sensor #           A           B           C           The Lambb	of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4 5 6 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin # TBA TBA TBA TBA TBA TBA TBA TBA TBA 23 28 22 da Sensor should be wir ECU Pin #	are on pins 15, 16, 17 and 33 as follows: itched to ground to activate the Powershift function hould be wired as follows: ) should be wired as follows: and the wired as follows: AND LAUNCH INPUT (ground active)	lea to ground	
33 4 5 5 6	These type           The Mappi           ECU Pin #           6           32           14           4           5           1           26           3 The Power           1           2           3           The Vauxh           Sensor #           1           2           3           The Throttt           Sensor #           1           2           3           The Baron           Sensor #           A           B           C           The Lambo           Sensor #           1	of outputs are on pins: ng Plug should be wireed Mapping Plug Pin # 1 2 3 4 5 6 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin # TBA TBA TBA TBA TBA tetric Pressure Sensor s ECU Pin # 23 28 22 da Sensor should be wir ECU Pin # TBA	are on pins 15, 16, 17 and 33 as follows: itched to ground to activate the Powershift function hould be wired as follows: ) should be wired as follows: and the wired as follows: AND LAUNCH INPUT (ground active)	lea to ground	-           -
33 4 5 5 6	These type           The Mappi           ECU Pin #           6           32           14           4           5           1           26           The Power           The Power           1           2           3           The Thrott           Sensor #           1           2           3           The Baron           Sensor #           A           B           C           The Lambb           Sensor #           1	a of outputs are on pins: ng Plug should be wirec Mapping Plug Pin # 1 2 3 4 5 6 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin # TBA TBA TBA TBA TBA 23 22 24 22 24 25 22 26 27 28 22 28 22 28 22 29 20 20 20 20 20 20 20 20 20 20	are on pins 15, 16, 17 and 33 as follows: itched to ground to activate the Powershift function hould be wired as follows: ) should be wired as follows: and the wired as follows: AND LAUNCH INPUT (ground active)	lea to ground	-           -
33 4 5 5 6	These type           The Mappi           ECU Pin #           6           32           14           4           5           1           26           The Power           The Vauxh           Sensor #           1           2           3           The Thrott           Sensor #           1           2           3           The Baron           Sensor #           A           B           C           The Lambo           Sensor #           1           2           3	of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4 4 5 6 6 7 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground IE Position Sensor (TPS ECU Pin # TBA TBA TBA TBA TBA 28 22 22 da Sensor should be wir ECU Pin # TBA TBA TBA TBA TBA TBA TBA TBA TBA TBA	are on pins 15, 16, 17 and 33 as follows: itched to ground to activate the Powershift function hould be wired as follows: ) should be wired as follows: and the wired as follows: AND LAUNCH INPUT (ground active)	lea to ground	-           -
3 3 4 5 5 6 6 7 7	These type           2 The Mappi           2 The Mappi           ECU Pin #           6           32           14           4           5           1           26           3 The Powel           The Vauxh           Sensor #           1           2           3           5 The Throttt           Sensor #           1           2           3           5 The Baron           Sensor #           A           B           C           The Lambo           Sensor #           1           2           3           4	of outputs are on pins: ng Plug should be wired Mapping Plug Pin # 1 2 3 4 5 6 7 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin # TBA TBA TBA TBA 23 24 22 23 24 22 24 25 ECU Pin # TBA TBA TBA TBA TBA TBA TBA TBA	are on pins 15, 16, 17 and 33 as follows: i as follows: itched to ground to activate the Powershift function hould be wired as follows: ) should be wired as follows: ) should be wired as follows: AND LAUNCH INPUT (ground active) ed as follows:	lea to ground	
3344	These type           The Mappi           ECU Pin #           6           32           14           4           5           1           26           3 The Power           1           2           3           The Vauxh           Sensor #           1           2           3           The Throttt           Sensor #           1           2           3           The Baron           Sensor #           A           B           C           The Lambo           Sensor #           1           2           3           The Lambo           Sensor #           1           2           3           4           The Fault I	of outputs are on pins: ng Plug should be wireed Mapping Plug Pin # 1 2 3 4 5 6 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 12 Ground le Position Sensor (TPS ECU Pin # TBA TBA TBA TBA tric Pressure Sensor s ECU Pin # Z3 28 22 da Sensor should be wir ECU Pin # TBA	are on pins 15, 16, 17 and 33 as follows: i as follows: itched to ground to activate the Powershift function hould be wired as follows: ) should be wired as follows: ) should be wired as follows: AND LAUNCH INPUT (ground active) ed as follows:	led to ground	
3344	These type           The Mappi           ECU Pin #           6           32           14           4           5           1           26           3 The Power           1           2           3           The Vauxh           Sensor #           1           2           3           The Throttt           Sensor #           1           2           3           The Baron           Sensor #           A           B           C           The Lambo           Sensor #           1           2           3           The Lambo           Sensor #           1           2           3           4           The Fault I	of outputs are on pins: ng Plug should be wiree: Mapping Plug Pin # 1 2 3 4 4 5 6 7 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin # TBA TBA TBA TBA TBA 23 22 23 22 24 25 ECU Pin # TBA TBA TBA TBA TBA TBA TBA TBA	are on pins 15, 16, 17 and 33 as follows: i as follows: itched to ground to activate the Powershift function hould be wired as follows: ) should be wired as follows: ) should be wired as follows: AND LAUNCH INPUT (ground active) ed as follows:	lea to ground	
33 4 5 5 6 6 6 7 7 8 8	These type           The Mappi           ECU Pin #           6           32           14           4           5           1           26           The Power           The Power           The Power           The Power           3           The Thrott           Sensor #           1           2           3           The Baron           Sensor #           A           B           C           The Lambb           Sensor #           1           2           3           The Fault I           2           3           4           The Fault I	of outputs are on pins: ng Plug should be wiree: Mapping Plug Pin # 1 2 3 4 4 5 6 7 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin # TBA TBA TBA TBA TBA 23 22 23 22 24 25 ECU Pin # TBA TBA TBA TBA TBA TBA TBA TBA	are on pins 15, 16, 17 and 33 as follows: bitched to ground to activate the Powershift function hould be wired as follows: bitched be wired b	lea to ground	
33 4 5 5 6 6 6 7 7 8 8	These type           The Mappi           ECU Pin #           6           32           14           4           5           1           26           The Power           The Power           The Power           The Power           3           The Thrott           Sensor #           1           2           3           The Baron           Sensor #           A           B           C           The Lambb           Sensor #           1           2           3           The Fault I           2           3           4           The Fault I	of outputs are on pins: ng Plug should be wiree: Mapping Plug Pin # 1 2 3 4 4 5 6 7 7 shift input should be sw all Crankshaft Sensor s ECU Pin # 11 12 Ground le Position Sensor (TPS ECU Pin # TBA TBA TBA TBA TBA 23 22 23 22 24 25 ECU Pin # TBA TBA TBA TBA TBA TBA TBA TBA	are on pins 15, 16, 17 and 33 as follows: it ched to ground to activate the Powershift function hould be wired as follows: ) should be wired as follows: ) should be wired as follows: AND LAUNCH INPUT (ground active) ed as follows: ad ground GM Sensor	led to ground	

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	Ford Sensor (not Cosworth)		
	Pin 01 = Return		
	Pin 02 = Signal		
	Magneti-Marelli Sensor		
	Pin 01=Signal		
	Pin 02=Return		
35 tooth wh	eel: GM Sensor		
	Pin 01 = Signal		
	Pin 02 = Return		
	Pin 03 = Screen		
	Ford Sensor (not Cosworth)		
	Pin 01 = Signal		
	Pin 02 - Return		
	Magneti-Marelli Sensor		
	Pin 01=Return		
	Pin 02=Signal		