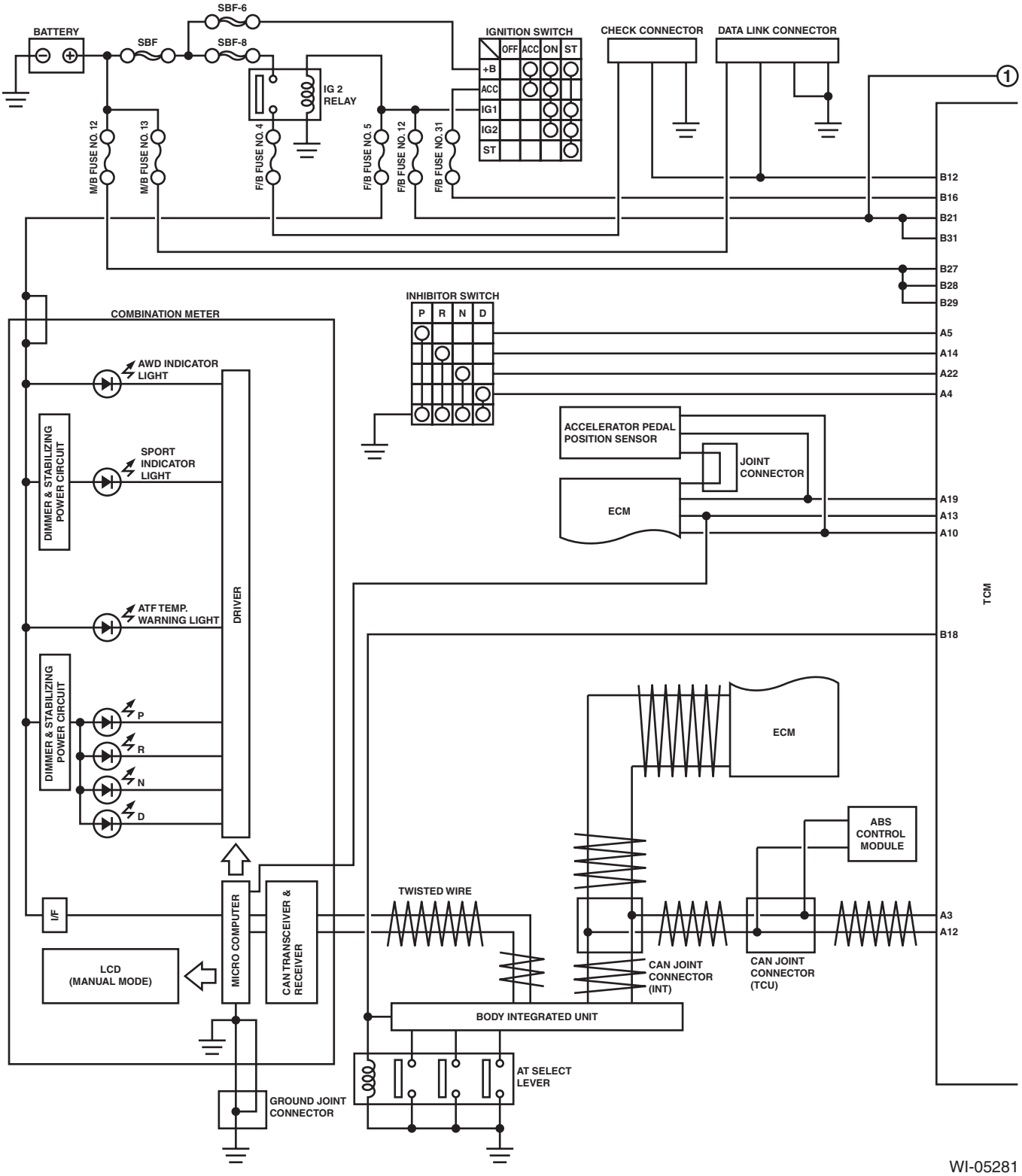
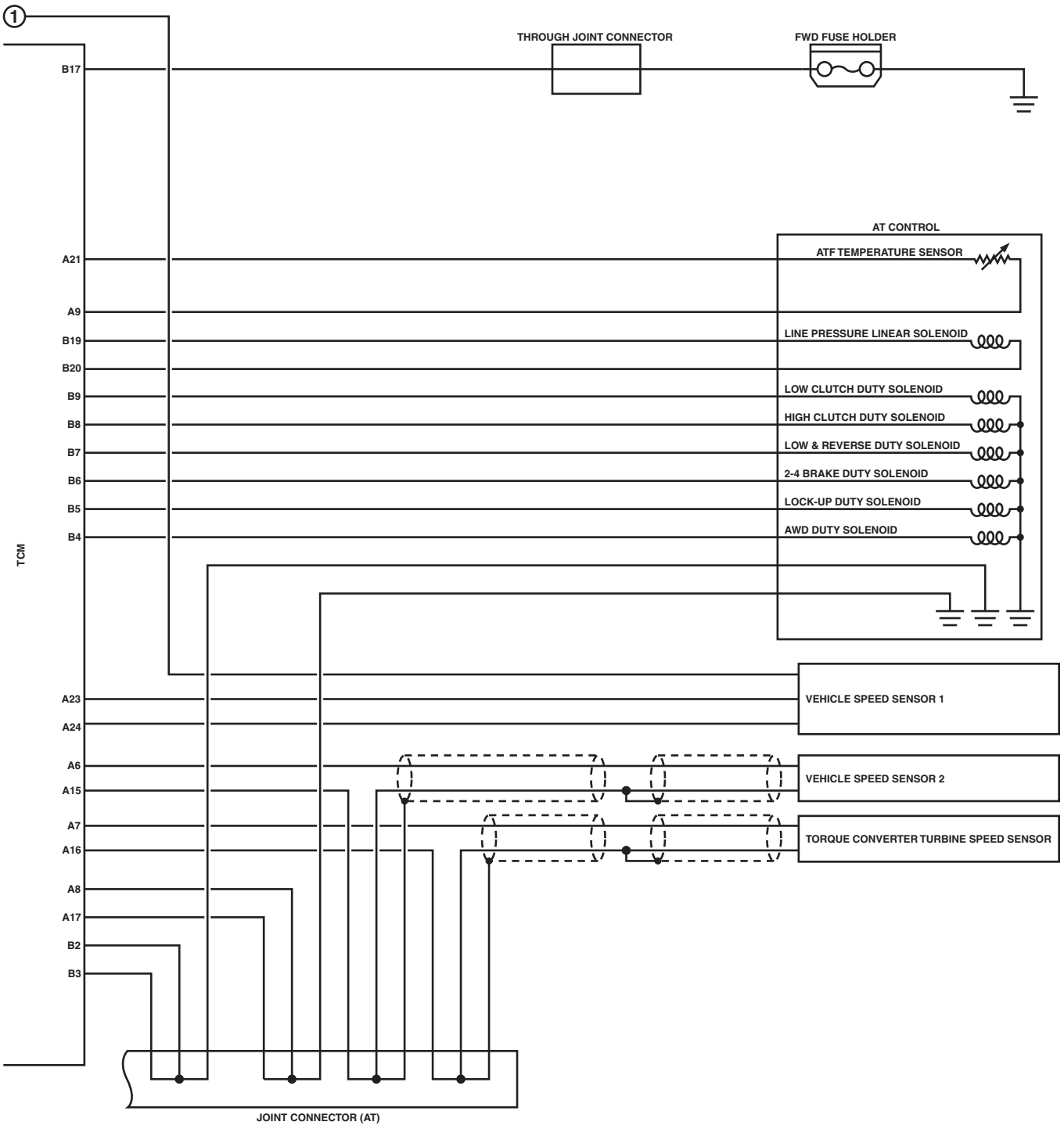
6. AT Control System

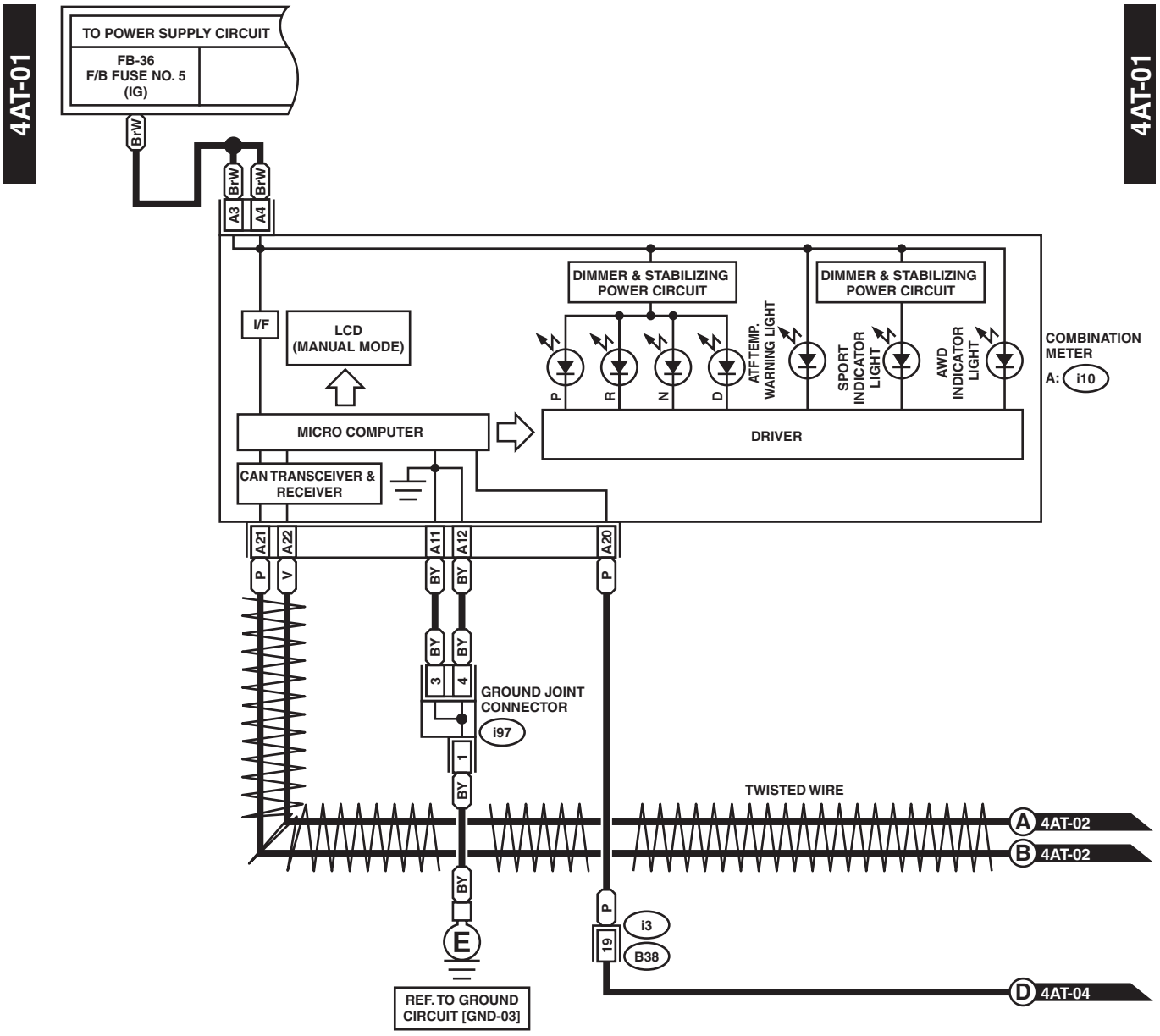
A: WIRING DIAGRAM

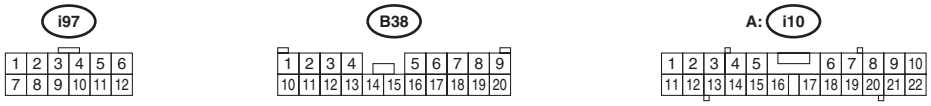
1. 4AT MODEL



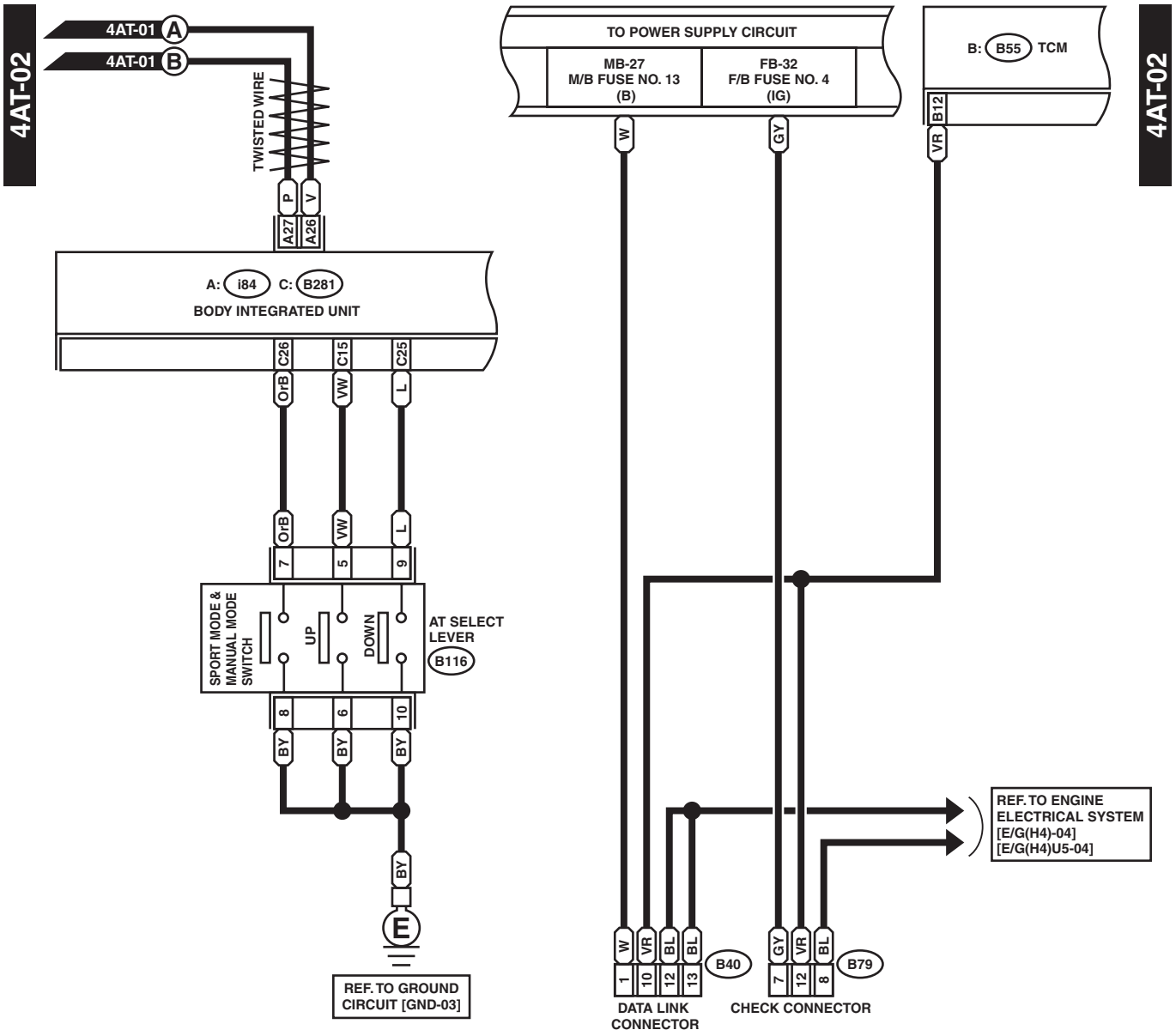

①
THROUGH JOINT CONNECTOR
FWD FUSE HOLDER
B17
AT CONTROL
ATF TEMPERATURE SENSOR
A21
A9
LINE PRESSURE LINEAR SOLENOID
B19
B20
LOW CLUTCH DUTY SOLENOID
B9
HIGH CLUTCH DUTY SOLENOID
B8
LOW & REVERSE DUTY SOLENOID
B7
2-4 BRAKE DUTY SOLENOID
B6
LOCK-UP DUTY SOLENOID
B5
AWD DUTY SOLENOID
B4
TCM
VEHICLE SPEED SENSOR 1
A23
A24
A6
VEHICLE SPEED SENSOR 2
A15
A7
TORQUE CONVERTER TURBINE SPEED SENSOR
A16
A8
A17
B2
B3
JOINT CONNECTOR (AT)

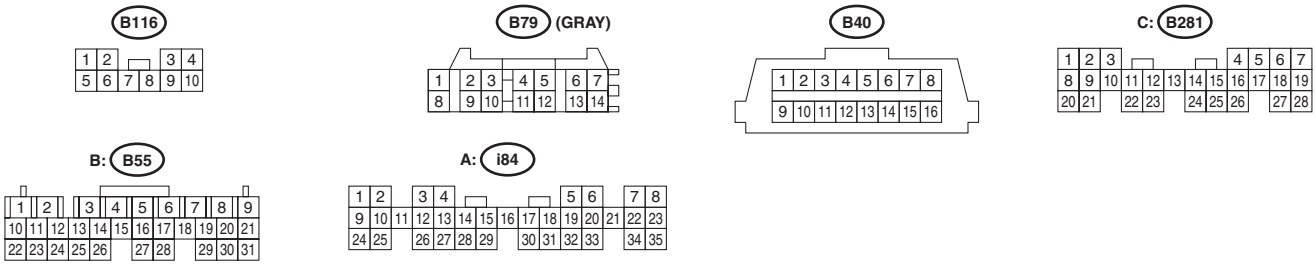
WI-05282


4AT-01
4AT-01
TO POWER SUPPLY CIRCUIT
FB-36
F/B FUSE NO. 5
(IG)
BrW
BrW
BrW
A3
A4
DIMMER & STABILIZING POWER CIRCUIT
DIMMER & STABILIZING POWER CIRCUIT
I/F
LCD
(MANUAL MODE)
P
R
N
D
ATF TEMP. WARNING LIGHT
SPORT INDICATOR LIGHT
AWD INDICATOR LIGHT
COMBINATION METER
A: i10
MICRO COMPUTER
DRIVER
CAN TRANSCEIVER & RECEIVER
A21
A22
A11
A12
A20
P
V
BY
BY
P
BY
BY
3
4
GROUND JOINT CONNECTOR
i97
1
BY
TWISTED WIRE
A 4AT-02
B 4AT-02
BY
E
P
i3
19
B38
REF. TO GROUND CIRCUIT [GND-03]
D 4AT-04

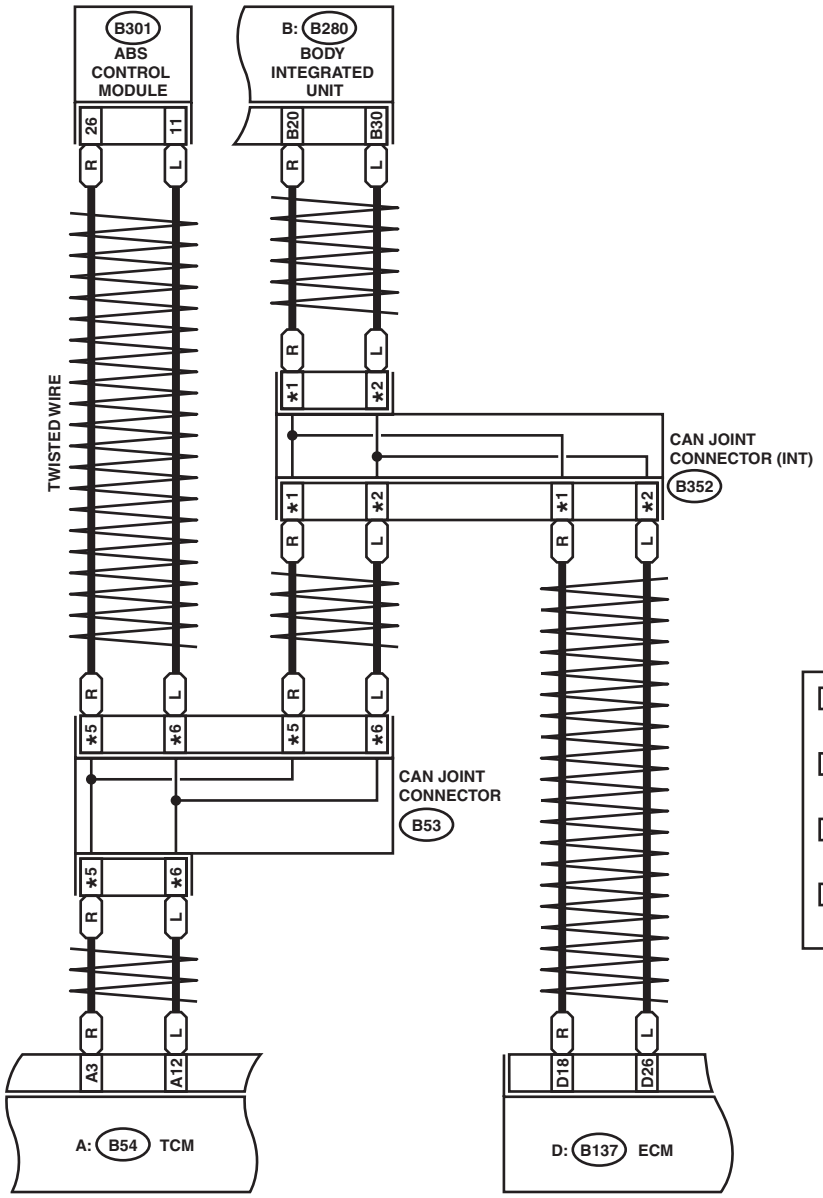

i97
1 2 3 4 5 6
7 8 9 10 11 12
B38
1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18 19 20
A: i10
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20 21 22

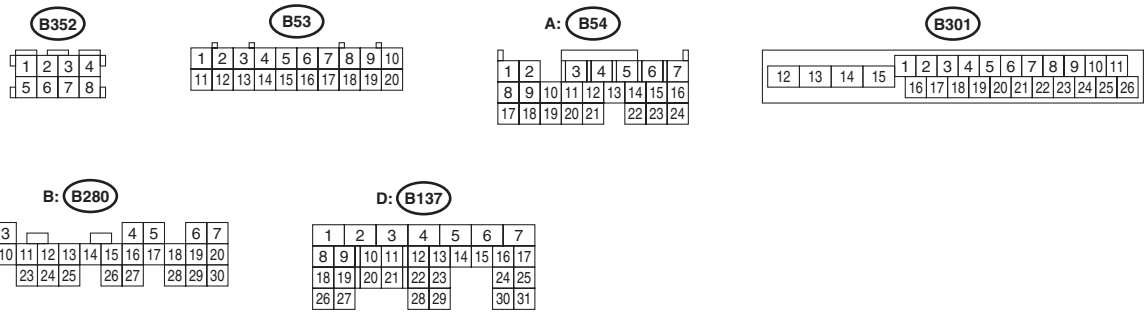
WI-05283


4AT-02
4AT-01 A
4AT-01 B
TWISTED WIRE
P
V
A27
A26
A: i84 C: B281
BODY INTEGRATED UNIT
C26
C15
C25
OrB
VW
L
7
5
9
SPORT MODE & MANUAL MODE SWITCH
UP
DOWN
AT SELECT LEVER
B116
8
6
10
BY
BY
BY
BY
E
REF. TO GROUND CIRCUIT [GND-03]
TO POWER SUPPLY CIRCUIT
MB-27
M/B FUSE NO. 13
(B)
FB-32
F/B FUSE NO. 4
(IG)
W
GY
B: B55 TCM
B12
VR
4AT-02
REF. TO ENGINE ELECTRICAL SYSTEM [E/G(H4)-04] [E/G(H4)U5-04]
W
VR
BL
BL
B40
1
10
12
13
GY
VR
BL
B79
7
12
8
DATA LINK CONNECTOR
CHECK CONNECTOR

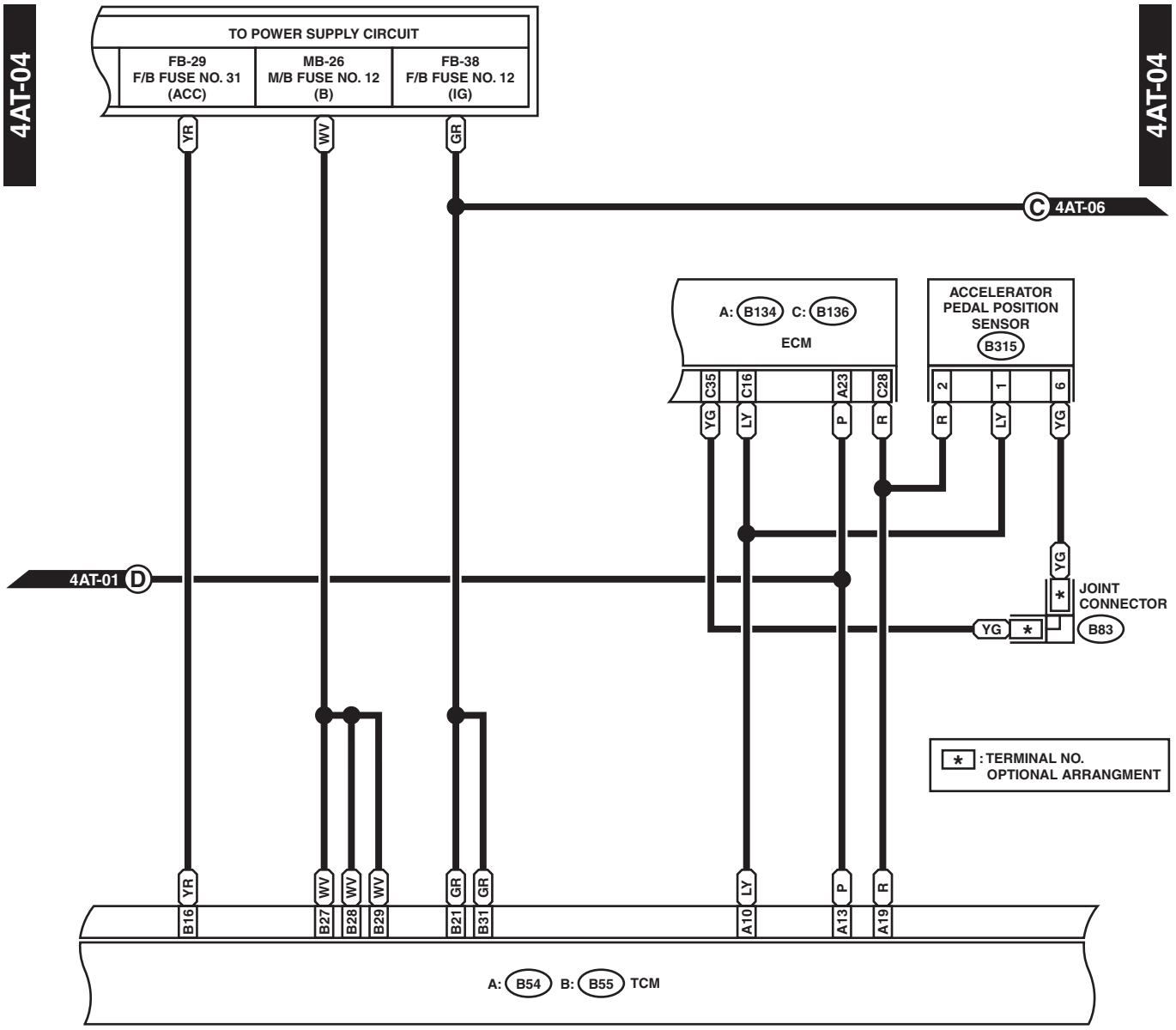

B116
B79 (GRAY)
B40
C: B281
B: B55
A: i84

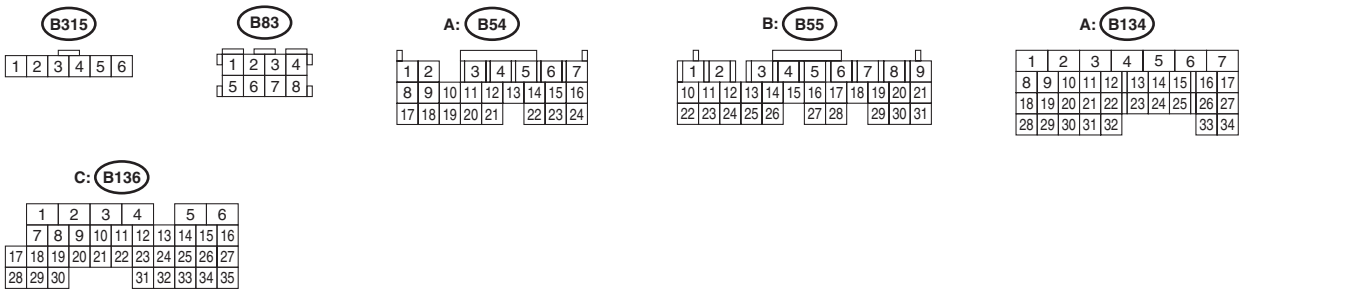
WI-05284


B301
ABS CONTROL MODULE
B: B280
BODY INTEGRATED UNIT
TWISTED WIRE
CAN JOINT CONNECTOR (INT)
B352
CAN JOINT CONNECTOR
B53
A: B54 TCM
D: B137 ECM
*1 : TERMINAL NO. OPTIONAL ARRANGMENT AMONG 1, 2, 5 AND 6
*2 : TERMINAL NO. OPTIONAL ARRANGMENT AMONG 3, 4, 7 AND 8
*5 : TERMINAL NO. OPTIONAL ARRANGMENT AMONG 8, 18 AND 19
*6 : TERMINAL NO. OPTIONAL ARRANGMENT AMONG 9, 10 AND 20

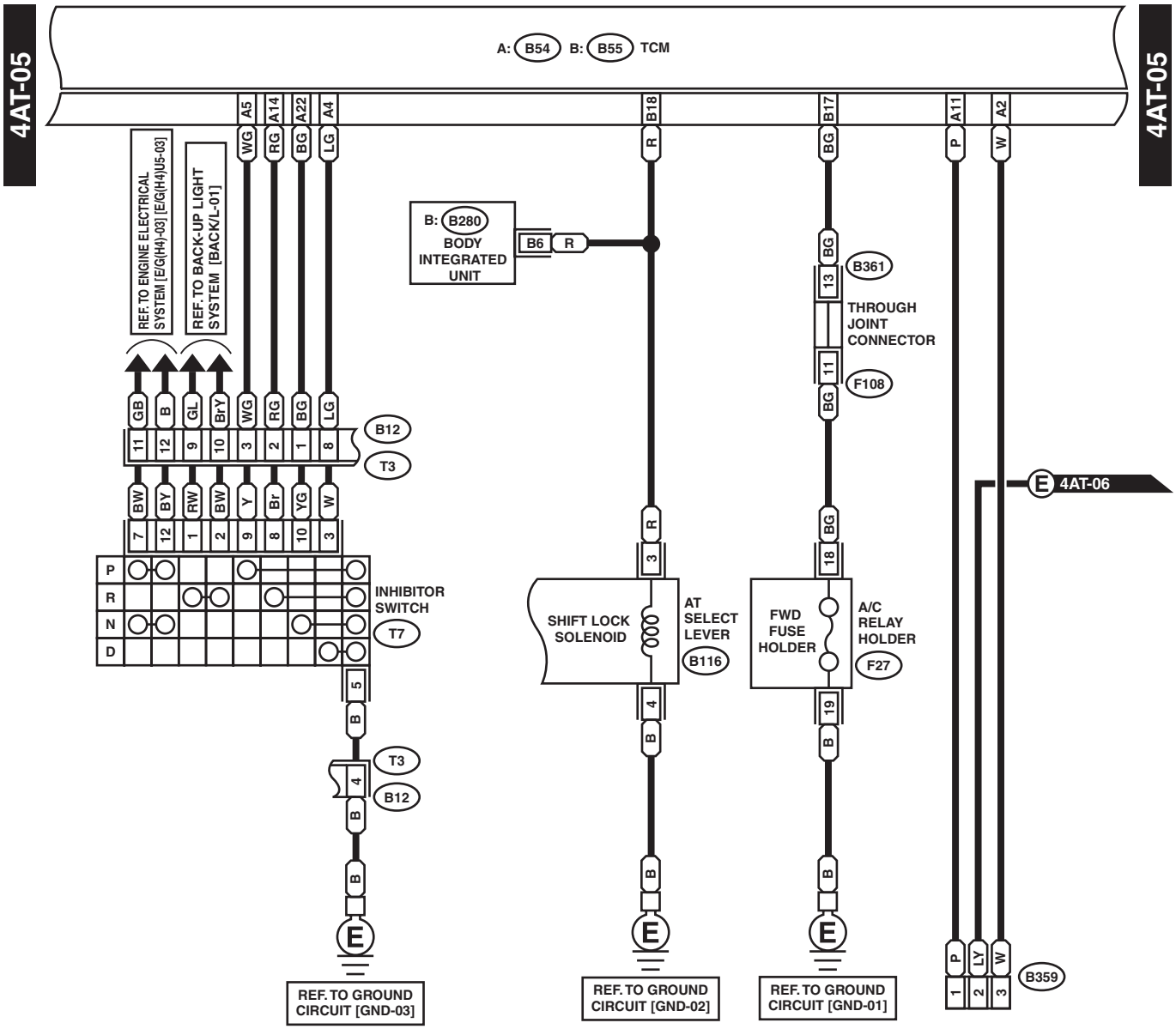

B352
B53
A: B54
B301
B: B280
D: B137

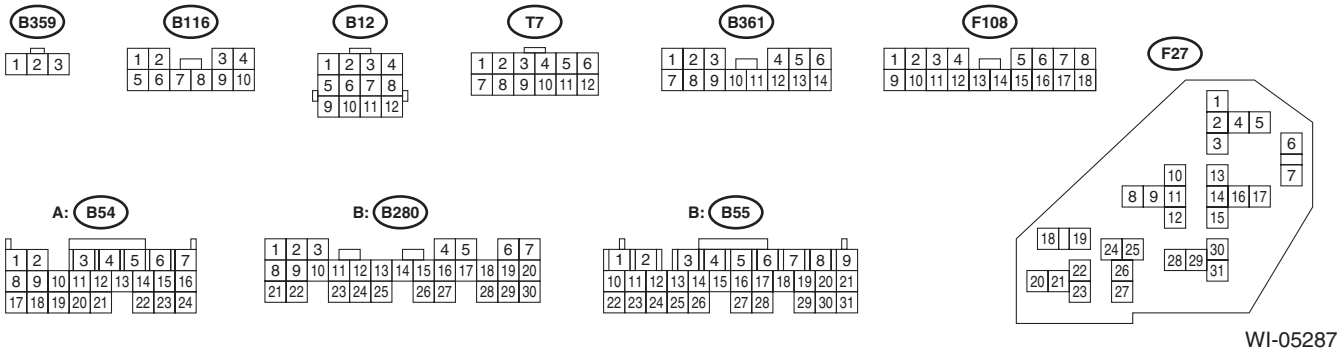
WI-05285


4AT-04
4AT-04
TO POWER SUPPLY CIRCUIT
FB-29
F/B FUSE NO. 31
(ACC)
MB-26
M/B FUSE NO. 12
(B)
FB-38
F/B FUSE NO. 12
(IG)
YR
WV
GR
C 4AT-06
A: B134 C: B136
ECM
ACCELERATOR
PEDAL POSITION
SENSOR
B315
C35
C16
A23
C28
2
1
6
YG
LY
P
R
R
LY
YG
4AT-01 D
YG
*
JOINT
CONNECTOR
YG
*
B83
* : TERMINAL NO.
OPTIONAL ARRANGMENT
YR
WV
WV
WV
GR
GR
LY
P
R
B16
B27
B28
B29
B21
B31
A10
A13
A19
A: B54 B: B55 TCM

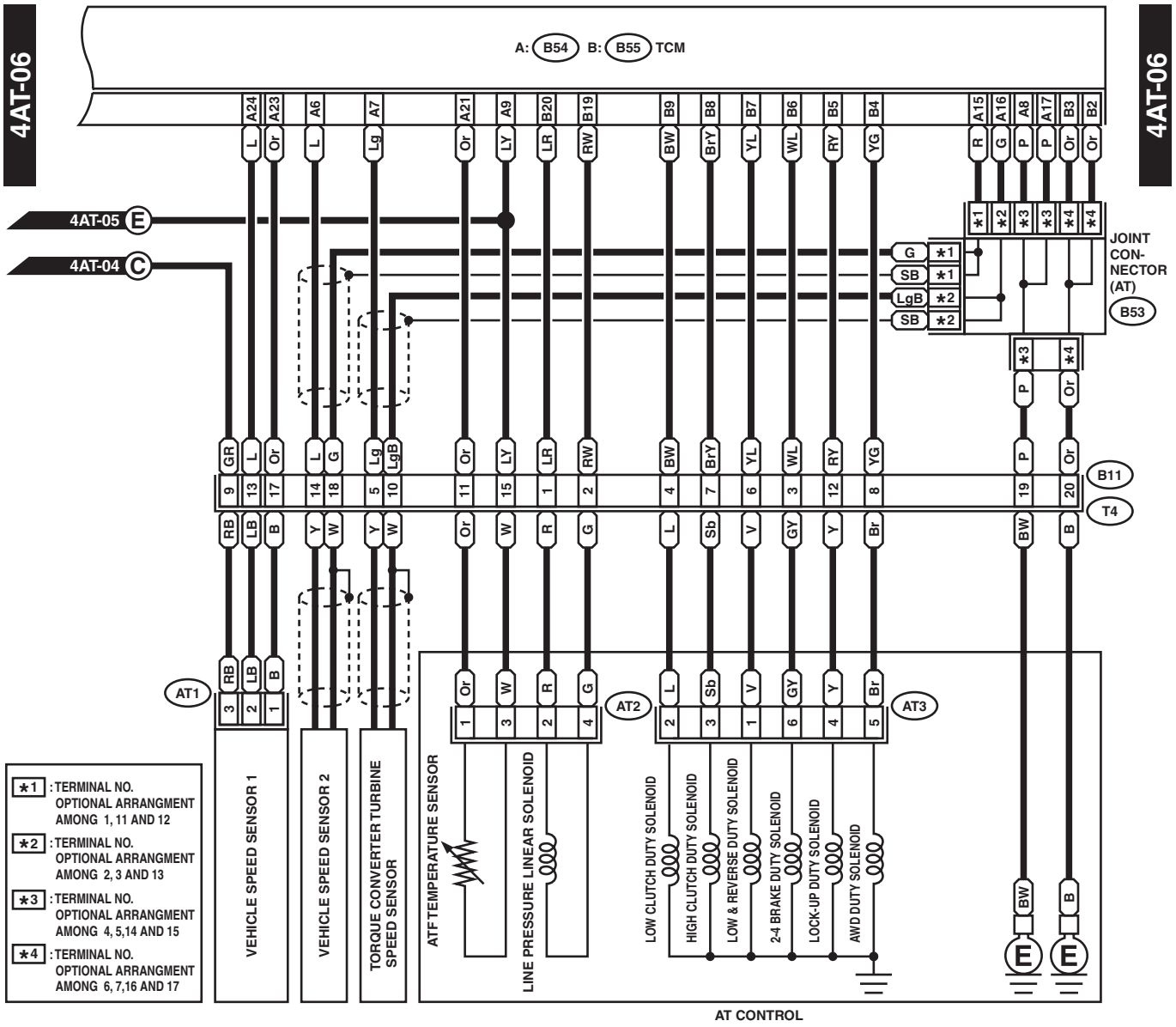

B315
B83
A: B54
B: B55
A: B134
C: B136

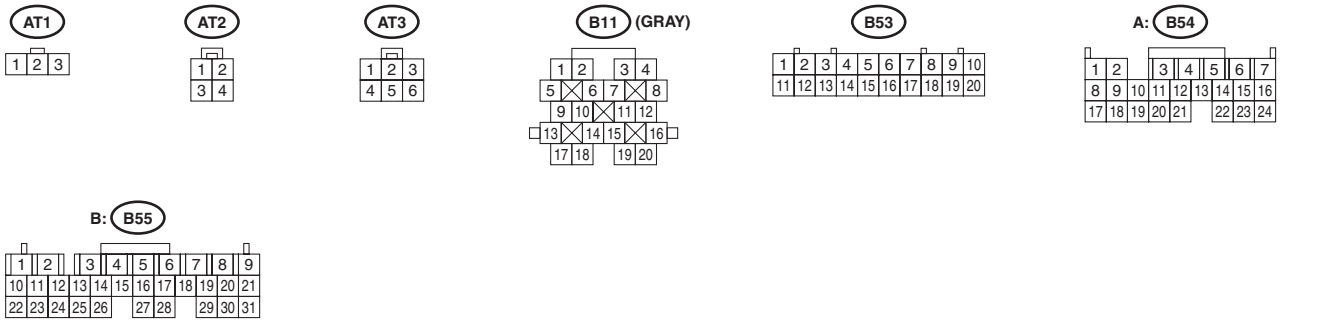
WI-05286


4AT-05
4AT-05
A: B54 B: B55 TCM
A5 A14 A22 A4
WG RG BG LG
B18 R
B17 BG
A11 P
A2 W
REF. TO ENGINE ELECTRICAL SYSTEM [E/G(H4)-03] [E/G(H4)U5-03]
REF. TO BACK-UP LIGHT SYSTEM [BACK/L-01]
B: B280 BODY INTEGRATED UNIT
B6 R
B361
13 BG
THROUGH JOINT CONNECTOR
11 BG
F108
GB B GL BrY WG RG BG LG
11 12 9 10 3 2 1 8
B12
T3
BW BY RW BW Y Br YG W
7 12 1 2 9 8 10 3
P
R
N
D
INHIBITOR SWITCH
T7
5 B
T3
4 B
B12
B
E
REF. TO GROUND CIRCUIT [GND-03]
3 R
SHIFT LOCK SOLENOID
AT SELECT LEVER
B116
4 B
B
E
REF. TO GROUND CIRCUIT [GND-02]
18 BG
FWD FUSE HOLDER
A/C RELAY HOLDER
F27
19 B
B
E
REF. TO GROUND CIRCUIT [GND-01]
E 4AT-06
P LY W
1 2 3
B359


B359
B116
B12
T7
B361
F108
F27
A: B54
B: B280
B: B55

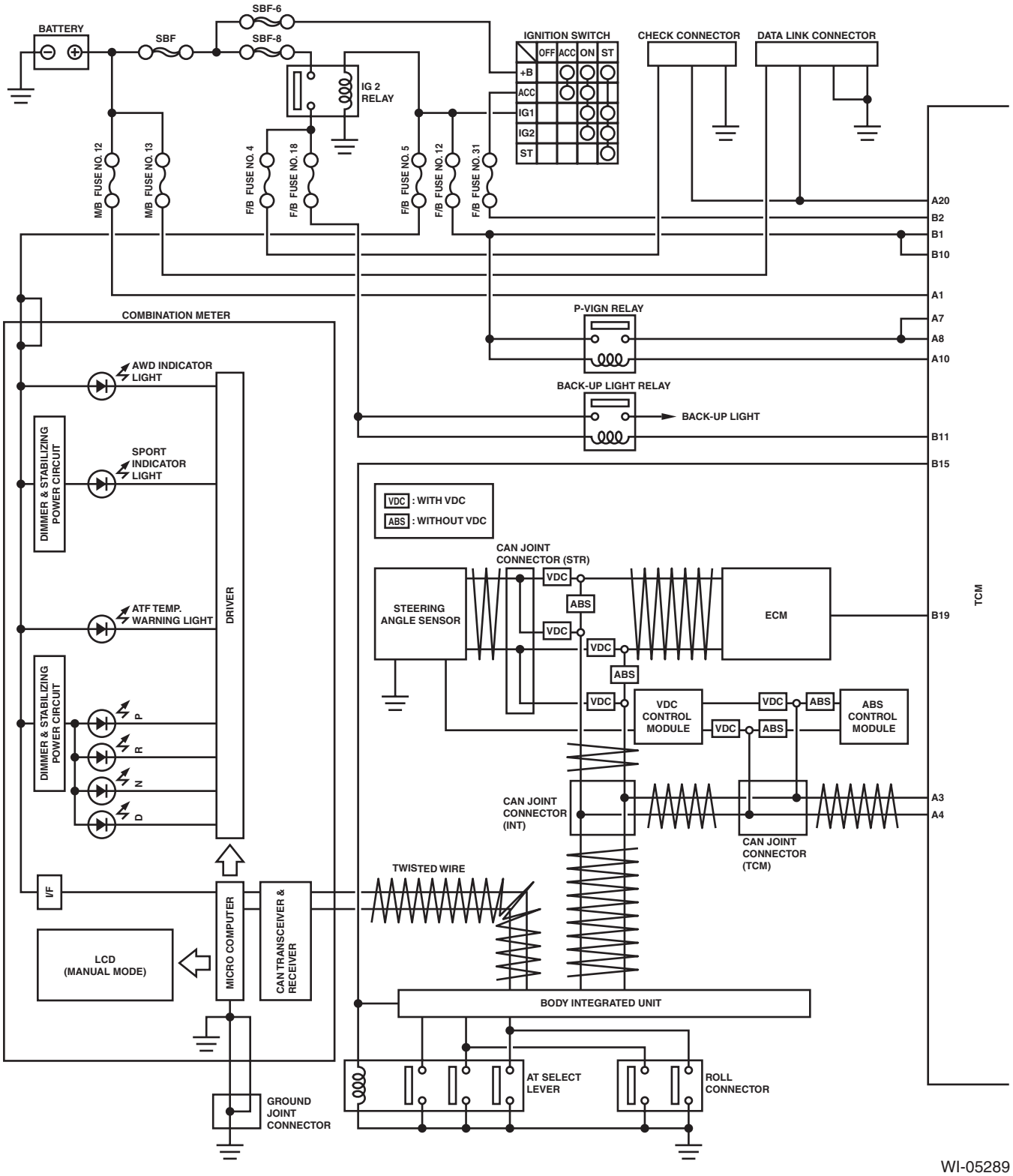
WI-05287


4AT-06
4AT-06
A: B54 B: B55 TCM
A24 A23 A6 A7 A21 A9 B20 B19 B9 B8 B7 B6 B5 B4 A15 A16 A8 A17 B3 B2
L Or L Lg Or LY LR RW BW BrY YL WL RY YG R G P P Or Or
4AT-05 E
4AT-04 C
JOINT CON-NECTOR (AT)
B53
G SB LgB SB
B11
T4
GR L Or L G Lg LgB Or LY LR RW BW BrY YL WL RY YG P Or
RB LB B Y W Y W Or W R G L Sb V GY Y Br BW B
AT1
AT2
AT3
VEHICLE SPEED SENSOR 1
VEHICLE SPEED SENSOR 2
TORQUE CONVERTER TURBINE SPEED SENSOR
ATF TEMPERATURE SENSOR
LINE PRESSURE LINEAR SOLENOID
LOW CLUTCH DUTY SOLENOID
HIGH CLUTCH DUTY SOLENOID
LOW & REVERSE DUTY SOLENOID
2-4 BRAKE DUTY SOLENOID
LOCK-UP DUTY SOLENOID
AWD DUTY SOLENOID
AT CONTROL
∗1 : TERMINAL NO. OPTIONAL ARRANGMENT AMONG 1, 11 AND 12
∗2 : TERMINAL NO. OPTIONAL ARRANGMENT AMONG 2, 3 AND 13
∗3 : TERMINAL NO. OPTIONAL ARRANGMENT AMONG 4, 5,14 AND 15
∗4 : TERMINAL NO. OPTIONAL ARRANGMENT AMONG 6, 7,16 AND 17

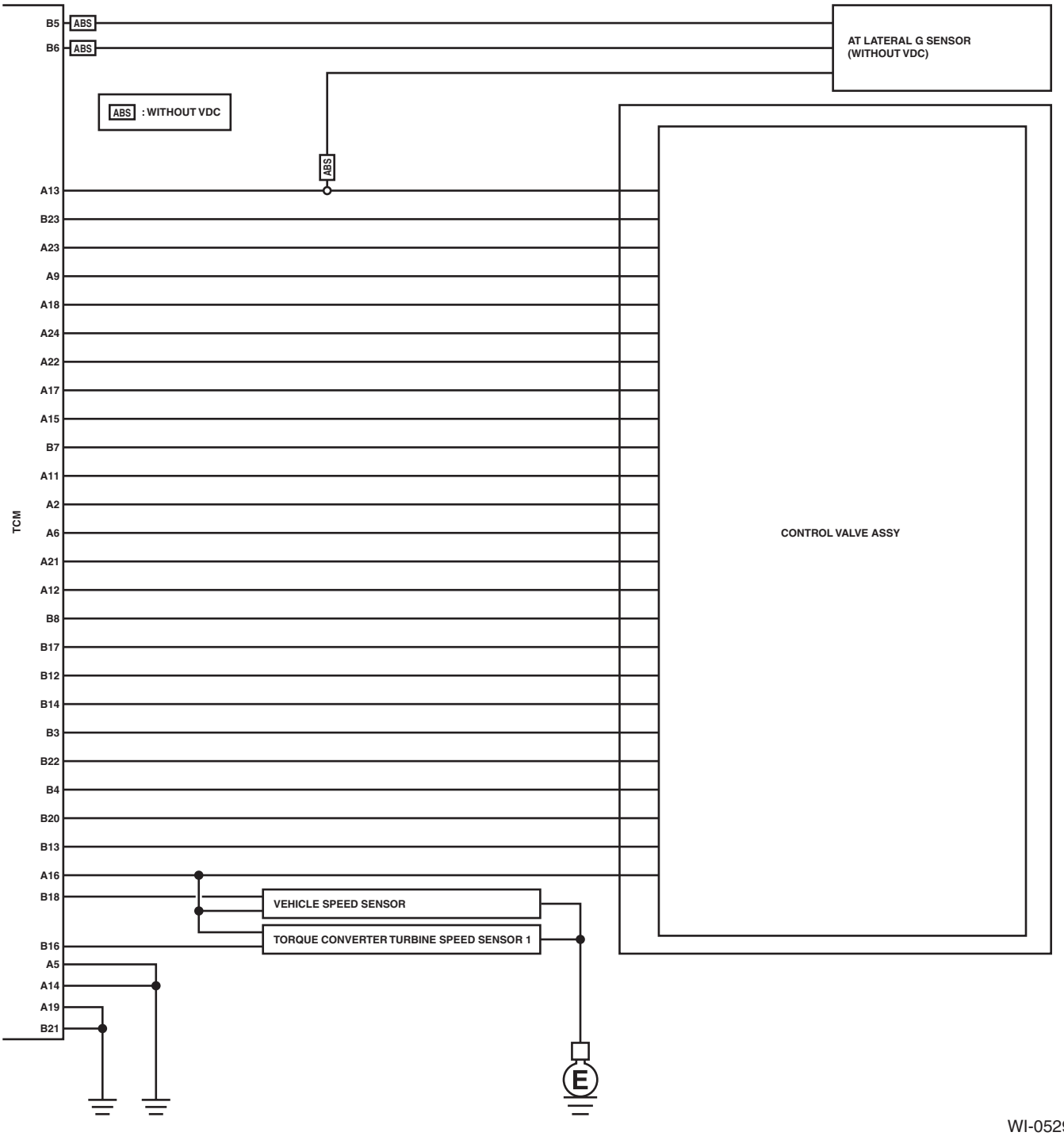

AT1
AT2
AT3
B11 (GRAY)
B53
A: B54
B: B55

WI-05288

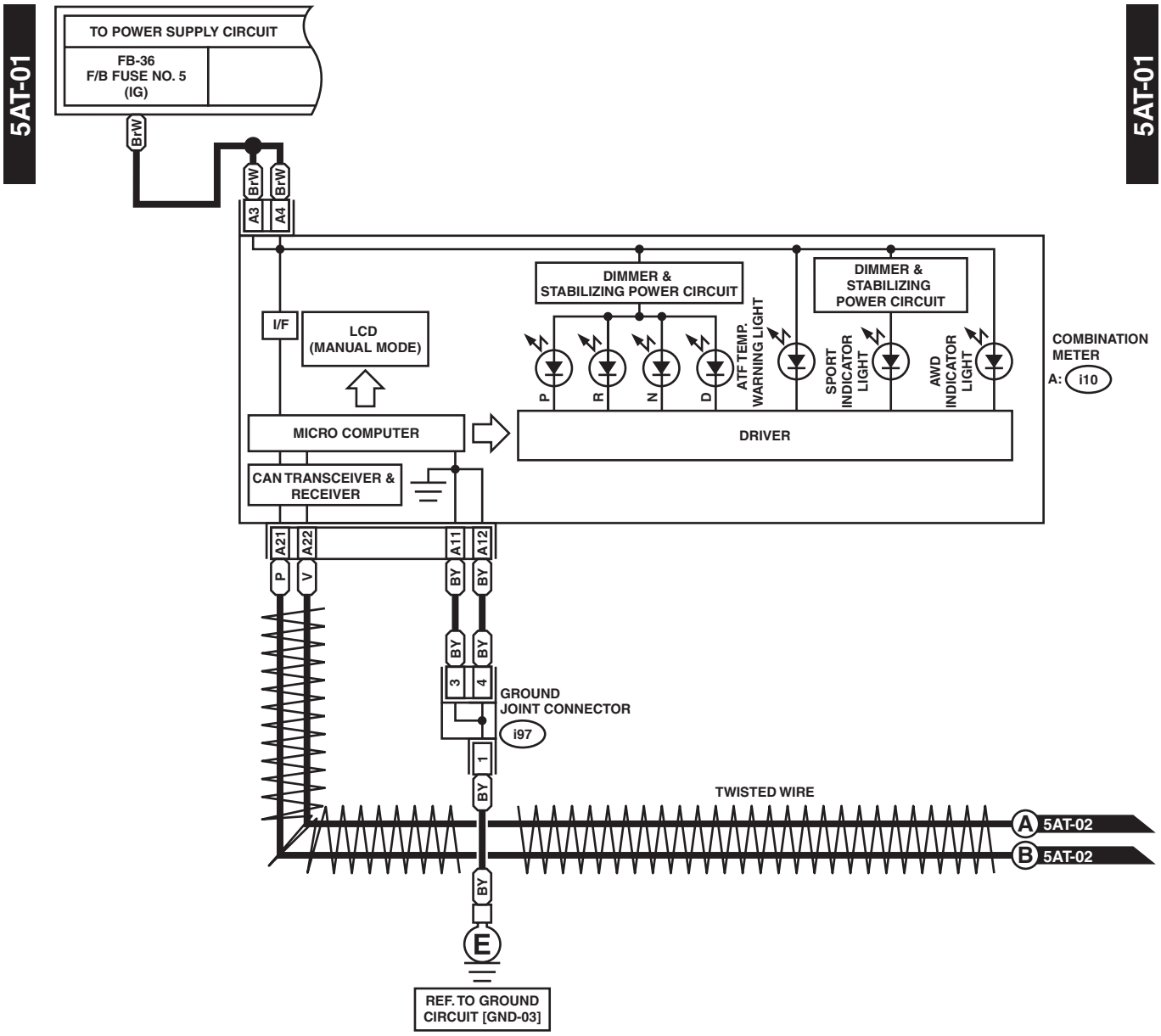
2. 5AT MODEL

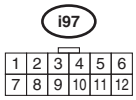


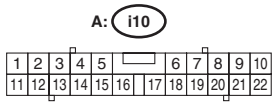
WI-05289


B5
ABS
B6
ABS
AT LATERAL G SENSOR
(WITHOUT VDC)
ABS : WITHOUT VDC
ABS
A13
B23
A23
A9
A18
A24
A22
A17
A15
B7
A11
A2
A6
A21
A12
B8
B17
B12
B14
B3
B22
B4
B20
B13
A16
B18
B16
A5
A14
A19
B21
TCM
CONTROL VALVE ASSY
VEHICLE SPEED SENSOR
TORQUE CONVERTER TURBINE SPEED SENSOR 1
E

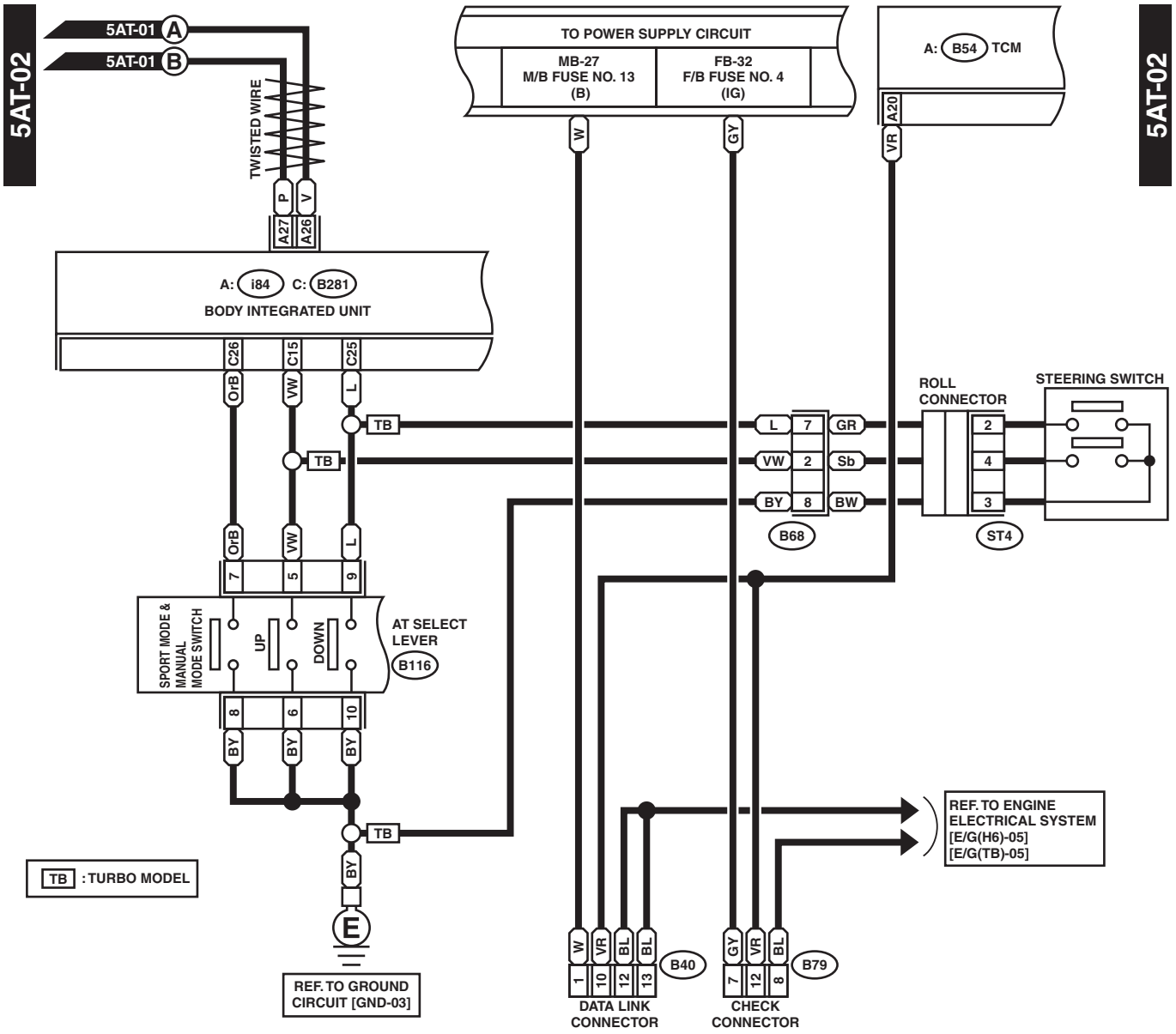
WI-05290

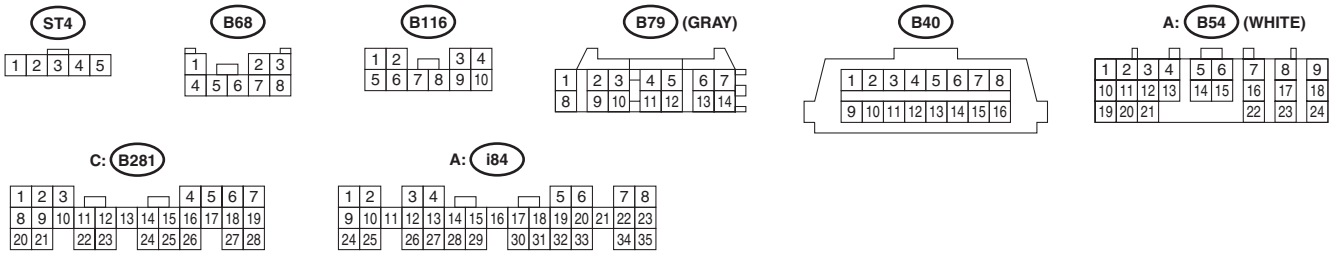

5AT-01
5AT-01
TO POWER SUPPLY CIRCUIT
FB-36
F/B FUSE NO. 5
(IG)
BrW
BrW
BrW
A3
A4
DIMMER &
STABILIZING POWER CIRCUIT
DIMMER &
STABILIZING
POWER CIRCUIT
I/F
LCD
(MANUAL MODE)
P
R
N
D
ATF TEMP.
WARNING LIGHT
SPORT
INDICATOR
LIGHT
AWD
INDICATOR
LIGHT
COMBINATION
METER
A: i10
MICRO COMPUTER
DRIVER
CAN TRANSCEIVER &
RECEIVER
A21
A22
A11
A12
P
V
BY
BY
BY
BY
3
4
GROUND
JOINT CONNECTOR
i97
1
BY
TWISTED WIRE
A 5AT-02
B 5AT-02
BY
E
REF. TO GROUND
CIRCUIT [GND-03]


i97
1 2 3 4 5 6
7 8 9 10 11 12

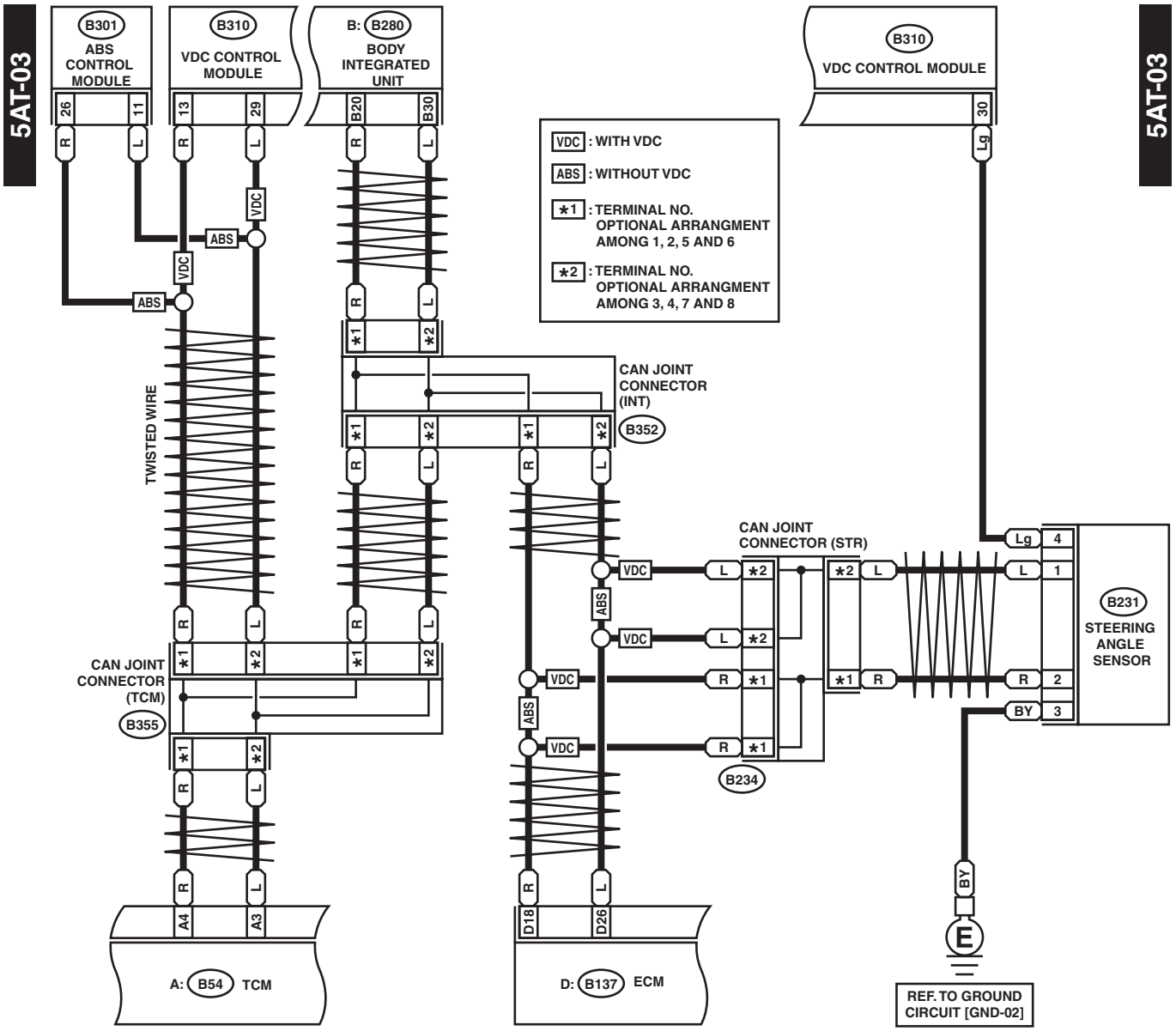

A: i10
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20 21 22

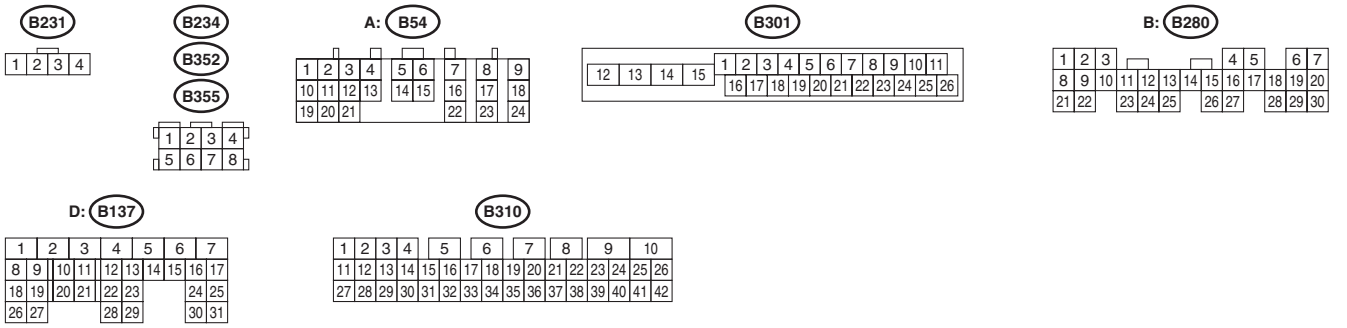
WI-05291


5AT-02
5AT-01 A
5AT-01 B
TWISTED WIRE
P
V
A27
A26
TO POWER SUPPLY CIRCUIT
MB-27
M/B FUSE NO. 13
(B)
FB-32
F/B FUSE NO. 4
(IG)
W
GY
A: B54 TCM
A20
VR
5AT-02
A: i84 C: B281
BODY INTEGRATED UNIT
C26
C15
C25
OrB
VW
L
TB
TB
L 7 GR
VW 2 Sb
BY 8 BW
B68
ROLL
CONNECTOR
2
4
3
ST4
STEERING SWITCH
OrB
VW
L
7
5
9
SPORT MODE &
MANUAL
MODE SWITCH
UP
DOWN
AT SELECT
LEVER
B116
8
6
10
BY
BY
BY
TB
BY
TB : TURBO MODEL
E
REF. TO GROUND
CIRCUIT [GND-03]
REF. TO ENGINE
ELECTRICAL SYSTEM
[E/G(H6)-05]
[E/G(TB)-05]
W
VR
BL
BL
1
10
12
13
B40
DATA LINK
CONNECTOR
GY
VR
BL
7
12
8
B79
CHECK
CONNECTOR

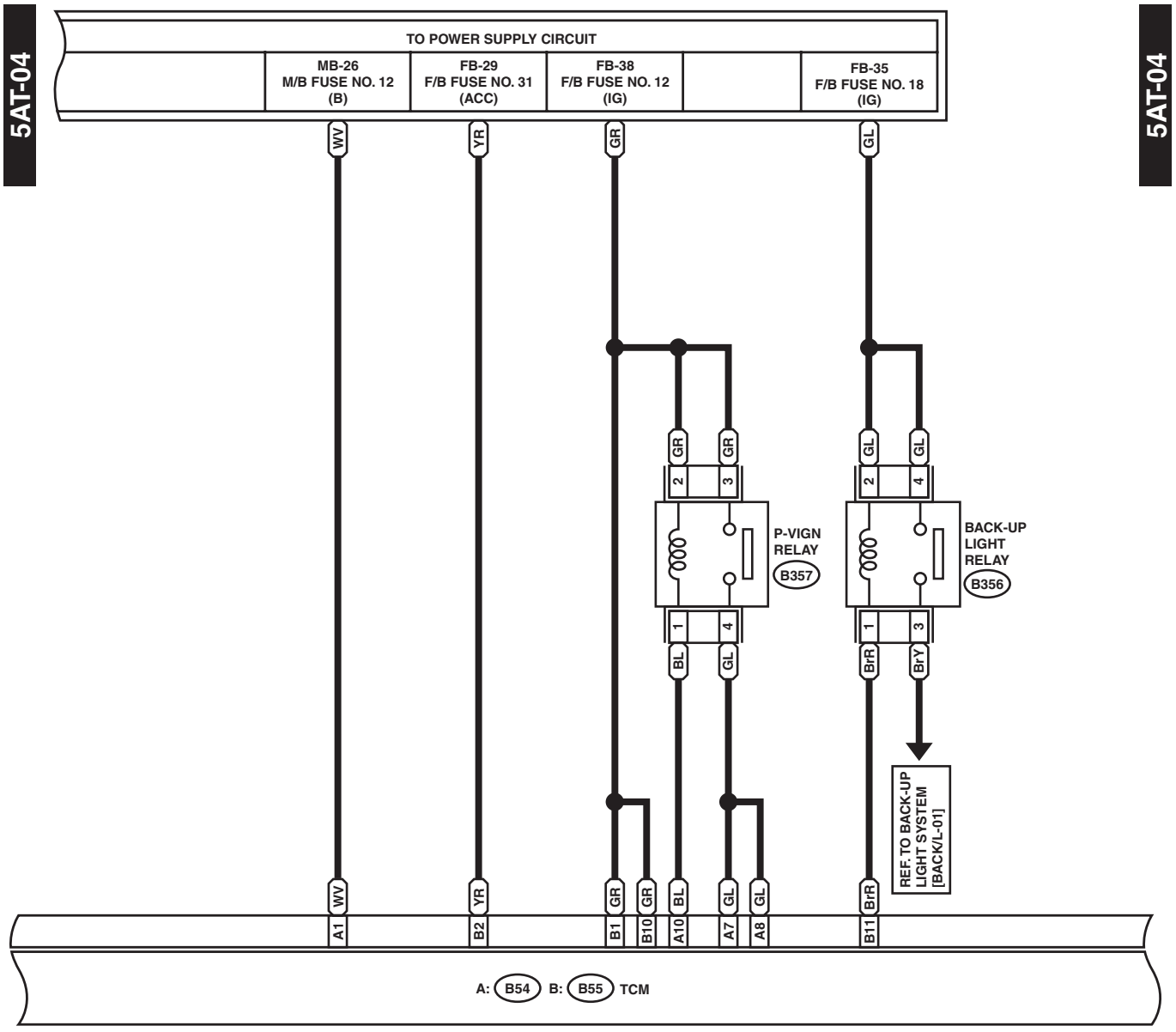

ST4
1 2 3 4 5
B68
1 2 3
4 5 6 7 8
B116
1 2 3 4
5 6 7 8 9 10
B79 (GRAY)
1 2 3 4 5 6 7
8 9 10 11 12 13 14
B40
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
A: B54 (WHITE)
1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18
19 20 21 22 23 24
C: B281
1 2 3 4 5 6 7
8 9 10 11 12 13 14 15 16 17 18 19
20 21 22 23 24 25 26 27 28
A: i84
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25 26 27 28 29 30 31 32 33 34 35

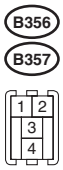
WI-05292


5AT-03
5AT-03
B301
ABS CONTROL MODULE
B310
VDC CONTROL MODULE
B: B280
BODY INTEGRATED UNIT
B310
VDC CONTROL MODULE
VDC : WITH VDC
ABS : WITHOUT VDC
*1 : TERMINAL NO. OPTIONAL ARRANGMENT AMONG 1, 2, 5 AND 6
*2 : TERMINAL NO. OPTIONAL ARRANGMENT AMONG 3, 4, 7 AND 8
TWISTED WIRE
CAN JOINT CONNECTOR (INT)
B352
CAN JOINT CONNECTOR (STR)
CAN JOINT CONNECTOR (TCM)
B355
B234
B231
STEERING ANGLE SENSOR
A: B54 TCM
D: B137 ECM
REF. TO GROUND CIRCUIT [GND-02]

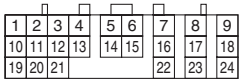

B231
B234
B352
B355
A: B54
B301
B: B280
D: B137
B310

WI-05293

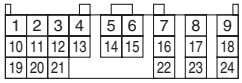




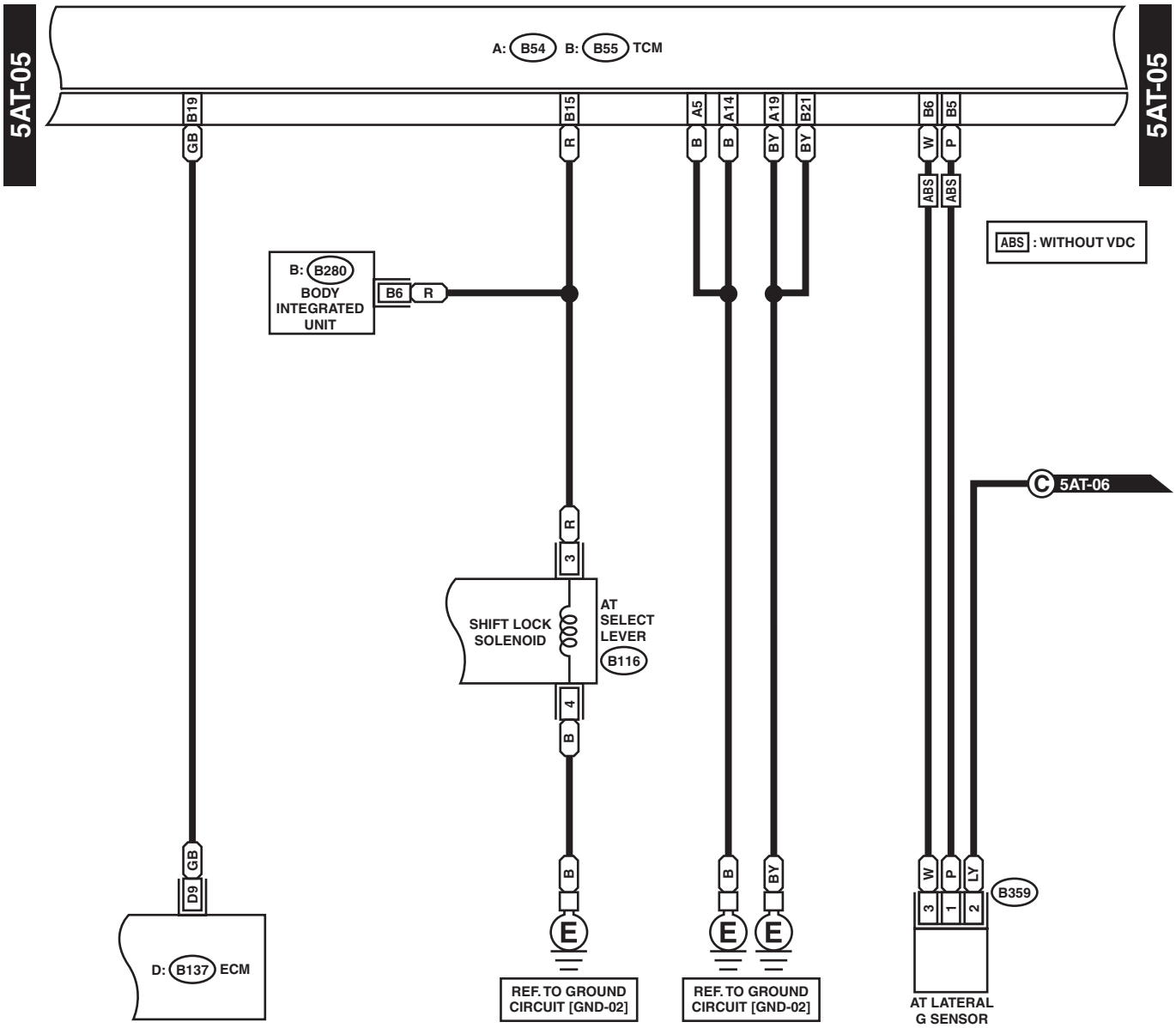
A: B54 (WHITE)

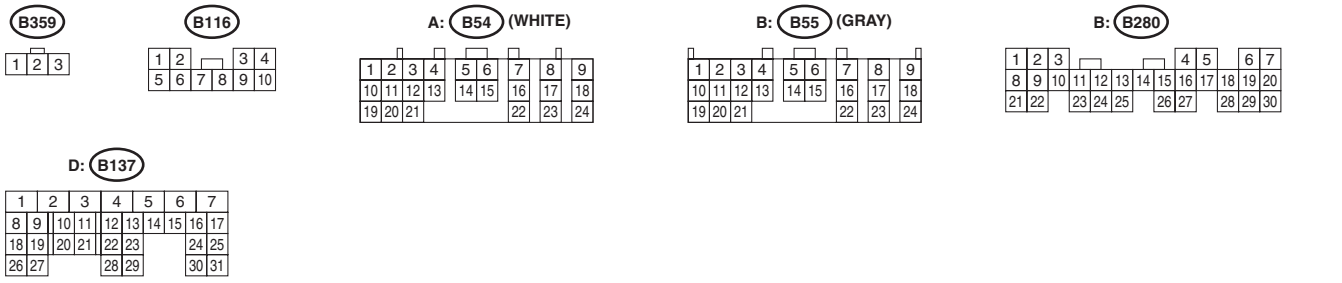


B: B55 (GRAY)

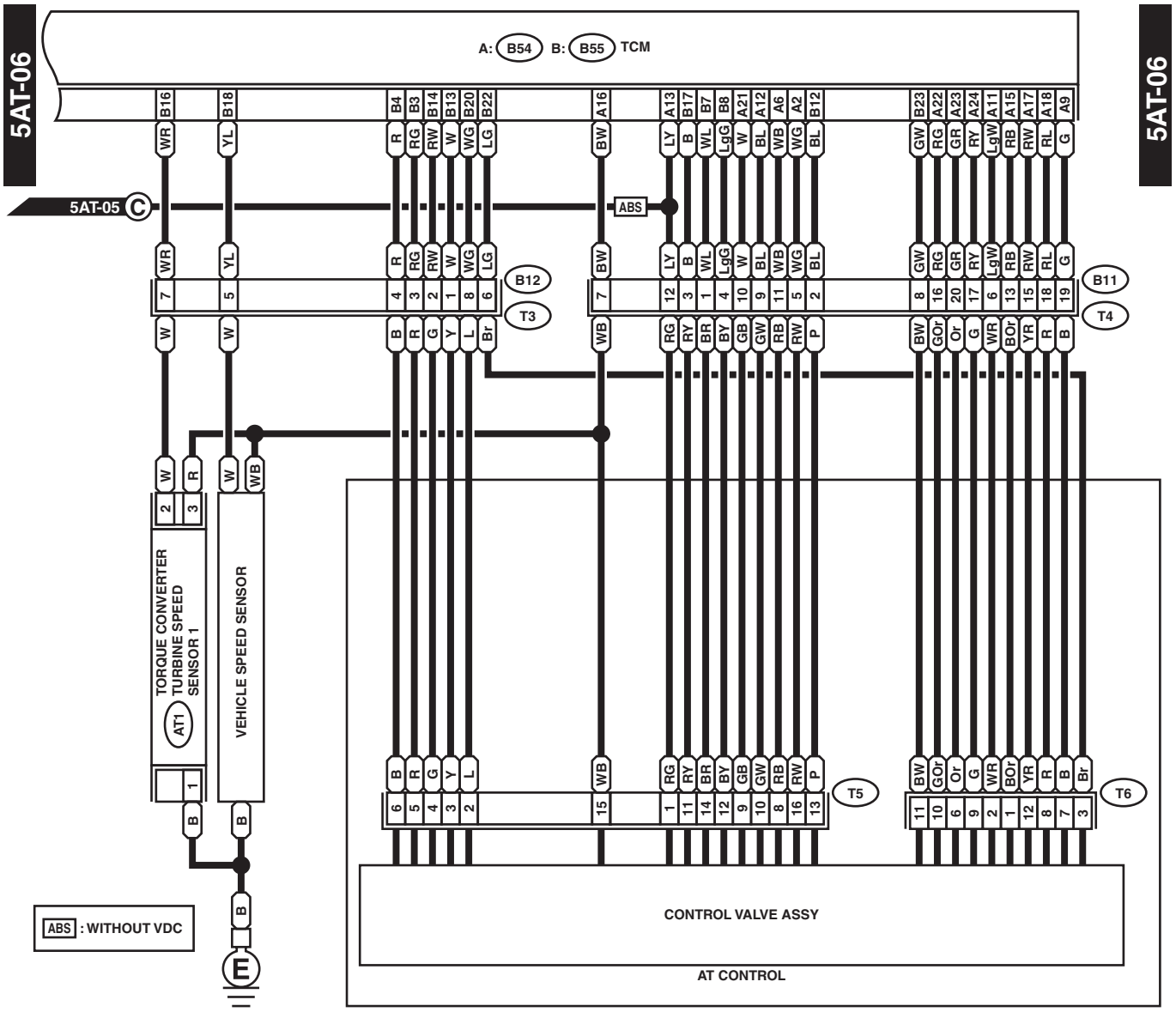


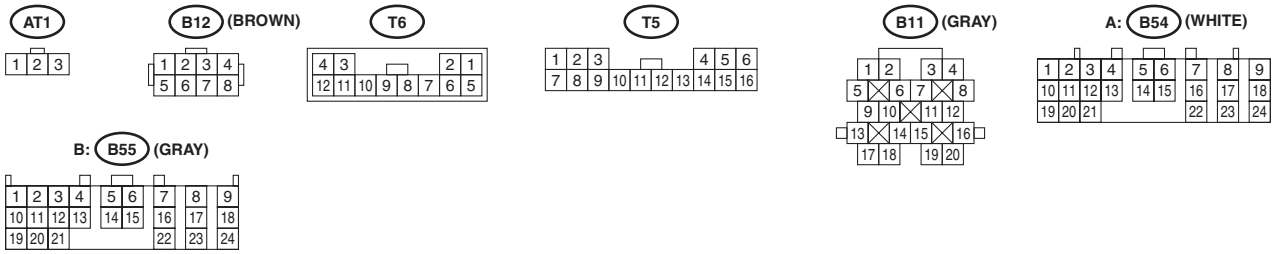
WI-05294


5AT-05
5AT-05
A: B54 B: B55 TCM
B19
B15
A5
A14
A19
B21
B6
B5
GB
R
B
B
BY
BY
W
P
ABS
ABS
ABS : WITHOUT VDC
B: B280
BODY INTEGRATED UNIT
B6
R
C 5AT-06
R
3
SHIFT LOCK SOLENOID
AT SELECT LEVER
B116
4
B
GB
D9
B
B
BY
W
P
LY
B359
3
1
2
D: B137 ECM
REF. TO GROUND CIRCUIT [GND-02]
REF. TO GROUND CIRCUIT [GND-02]
AT LATERAL G SENSOR


B359
B116
A: B54 (WHITE)
B: B55 (GRAY)
B: B280
D: B137

WI-05295


5AT-06
5AT-06
A: B54 B: B55 TCM
5AT-05 C
ABS
B12
T3
B11
T4
T5
T6
TORQUE CONVERTER TURBINE SPEED SENSOR 1
AT1
VEHICLE SPEED SENSOR
CONTROL VALVE ASSY
AT CONTROL
ABS : WITHOUT VDC
E


AT1
B12 (BROWN)
T6
T5
B11 (GRAY)
A: B54 (WHITE)
B: B55 (GRAY)

WI-05296