

## Flow charts of PDK fault codes (change status listing)

(see also Technical Information Gr. 3, No. 35/09)

<b>Date</b>	<b>Change in flow chart ...</b>
09/2009	First publication
04/2010	EF - Electrical faults SF4 - Temperature sensor SF5 - Software faults
05/2011	EF - Electrical faults SF3 - Pressure sensor SF4 - Temperature sensor
06/2011	SF3 - Pressure sensor

997+997

## Electrical faults

(3730 - Flow charts of PDK fault codes; see also Technical Information, Gr. 3, No. 35/09)

Flow chart  
EF 9x7

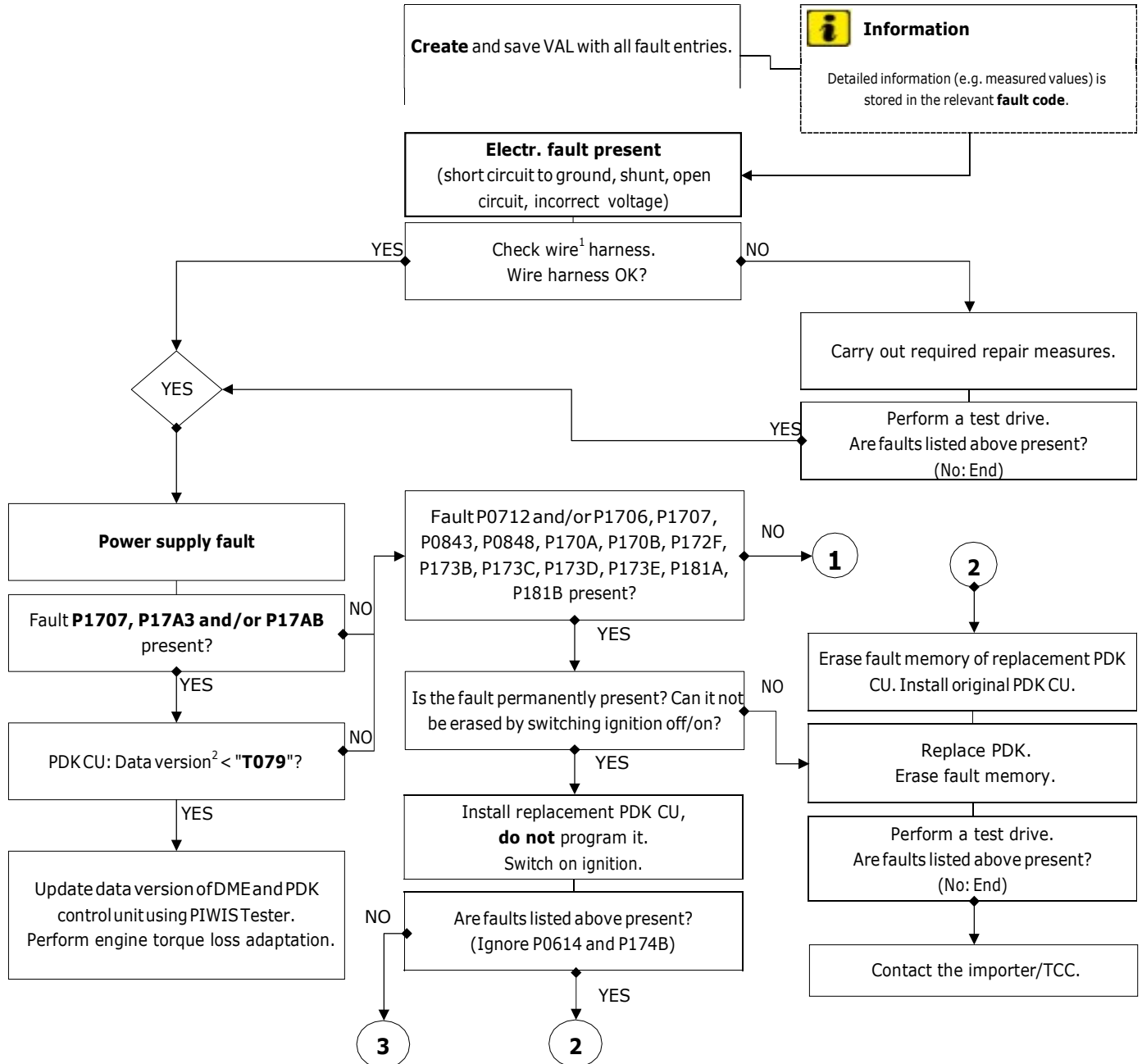


### Information

- Make sure you have the **latest** PIWIS Tester 9718 software installed.
- If **components are replaced**: Return to Warranty **Test Centre** and document all measures in PQIS.

### Reference material

- Technical Information '0335 Vehicle Analysis Log (VAL) (15/08)'



DME CU = DME control unit  
PDK CU = PDK control unit  
Electrohydraulic CU = Electrohydraulic control unit

GFF = Guided Fault Finding with PIWIS Tester 9718  
PDK = Porsche Doppelkupplung

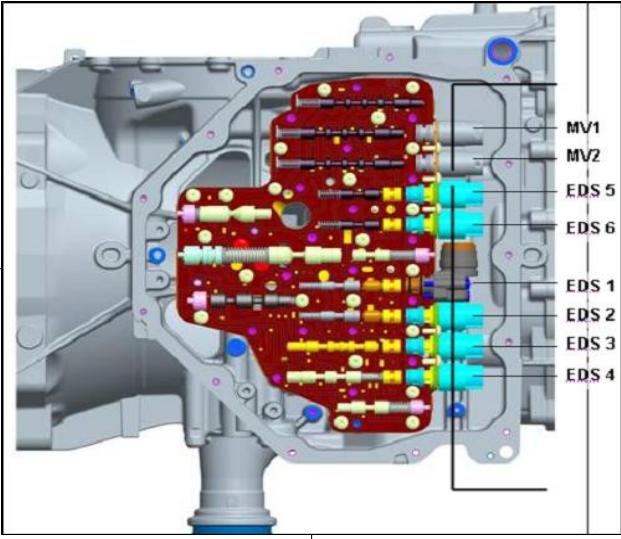
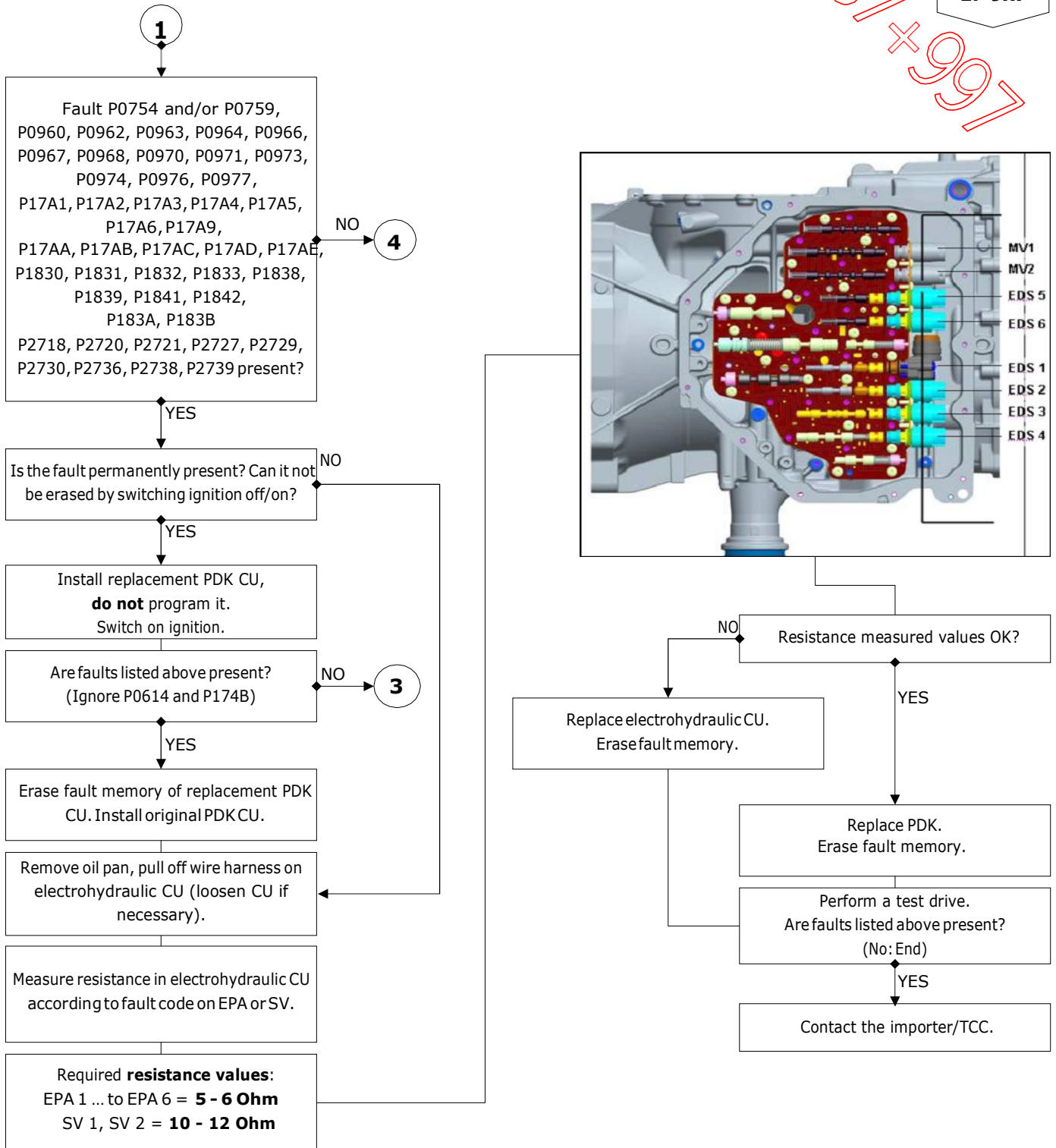
<sup>1</sup> Check wire harness continuity; check plug connections on transmission and wire harness side for damaged connectors/sleeves and soiling; check that plug connections are seated correctly.

<sup>2</sup> Data version in PDK control unit under => 'Actual values' => 'Identification' in PIWIS Tester and in VAL.

# Electrical faults

Flow chart  
EF 9x7

9817+997



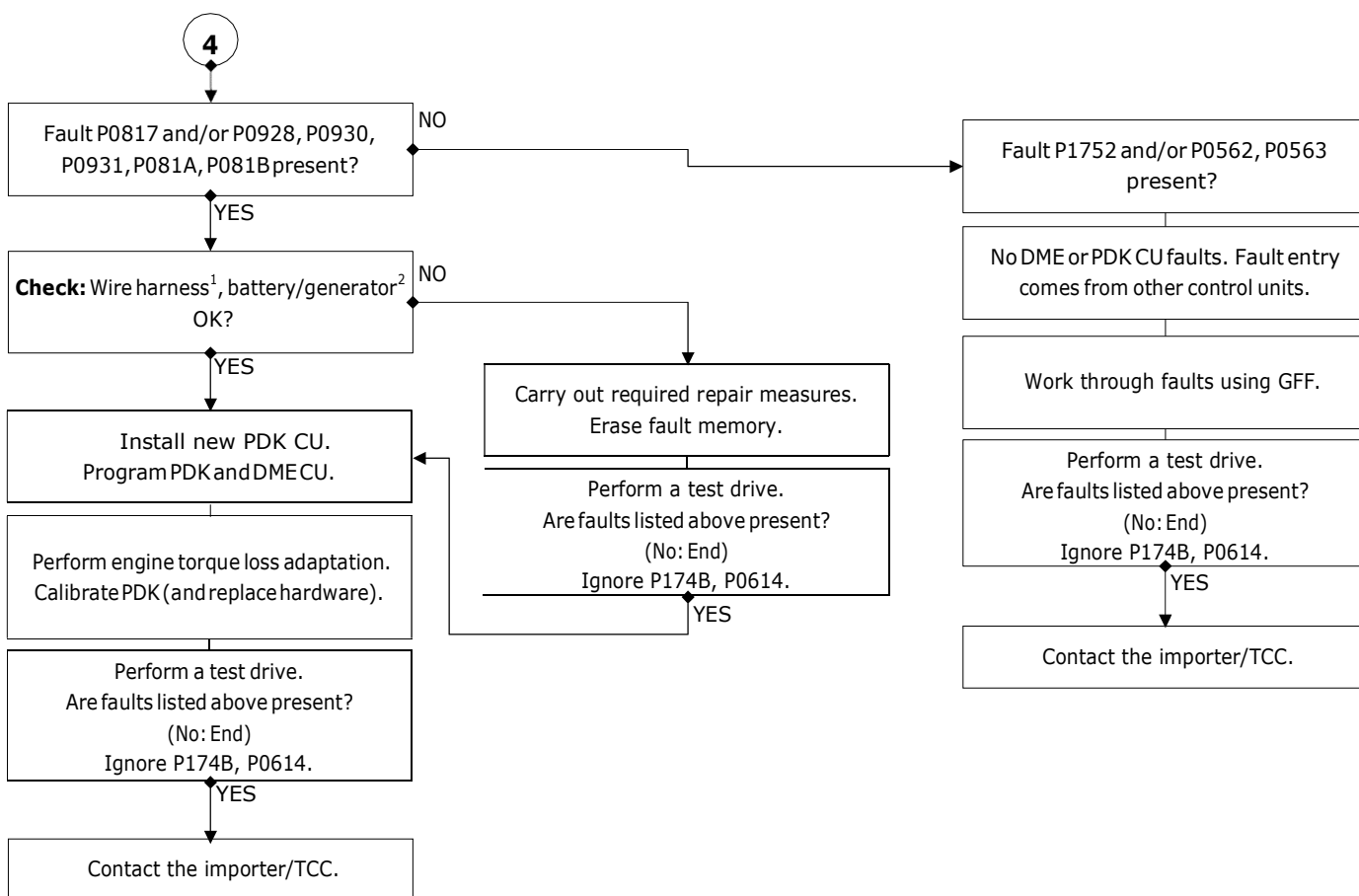
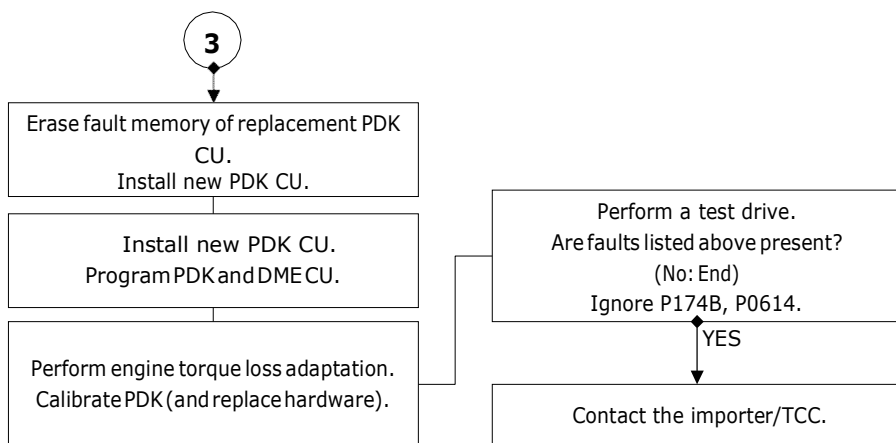
DME CU = DME control unit  
 PDK CU = PDK control unit  
 Electrohydraulic CU = Electrohydraulic control unit  
 EPA = Electric pressure adjuster

GFF = Guided Fault Finding using PIWIS Tester 9818  
 PDK = Porsche Doppelkupplung  
 SV = Solenoid valve

## Electrical faults

987+997

**Flow chart  
EF 9x7**



DME CU = DME control unit  
 PDK CU = PDK control unit  
 Electrohydraulic CU = Electrohydraulic control unit  
 EPA = Electric pressure adjuster

GFF = Guided Fault Finding using PIWIS Tester 9818  
 PDK = Porsche Doppelkupplung  
 SV = Solenoid valve

<sup>1</sup> Check wire harness continuity; check plug connections on transmission and wire harness side for damaged connectors/sleeves and soiling; check that plug connections are seated  
<sup>2</sup> Check function of ..., check for damage, continuity, charge state, etc.

## Gear skip, engagement block - P176x

(3730 - Flow charts of PDK fault codes; see also Technical Information, Gr. 3, No. 35/09)

Flow chart  
EB



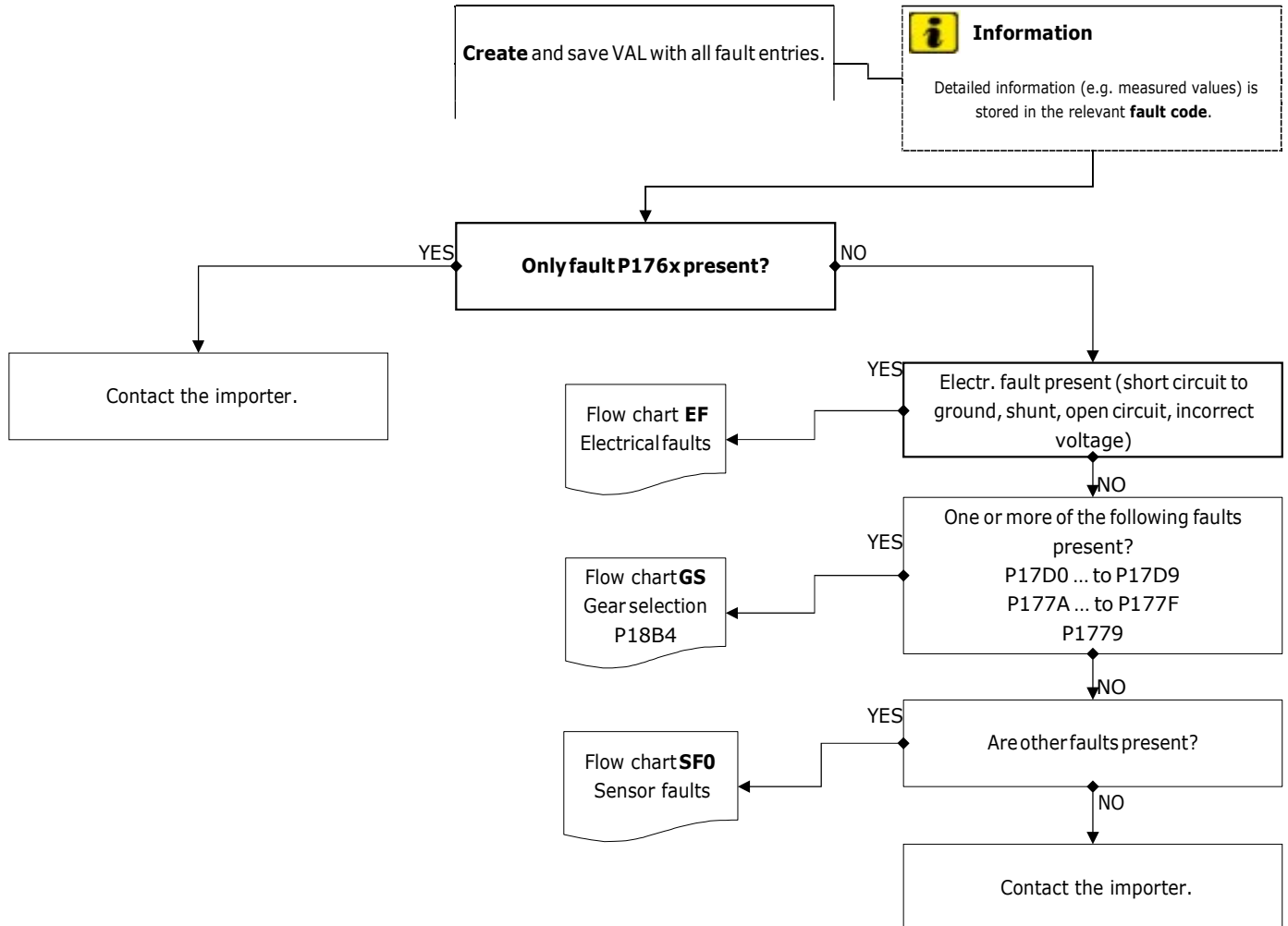
### Information

- Make sure you have the **latest** PIWIS Tester 9718 software installed.
- If **components are replaced**: Return to Warranty **Test Centre** and document all measures in PQIS.

### Reference material

for the following work:

- Technical Information '0335 Vehicle Analysis Log (VAL) (15/08)'



## Sensor faults (preliminary work)

(3730 - Flow charts of PDK fault codes; see also Technical Information, Gr. 3, No. 35/09)

Flow chart  
SF0

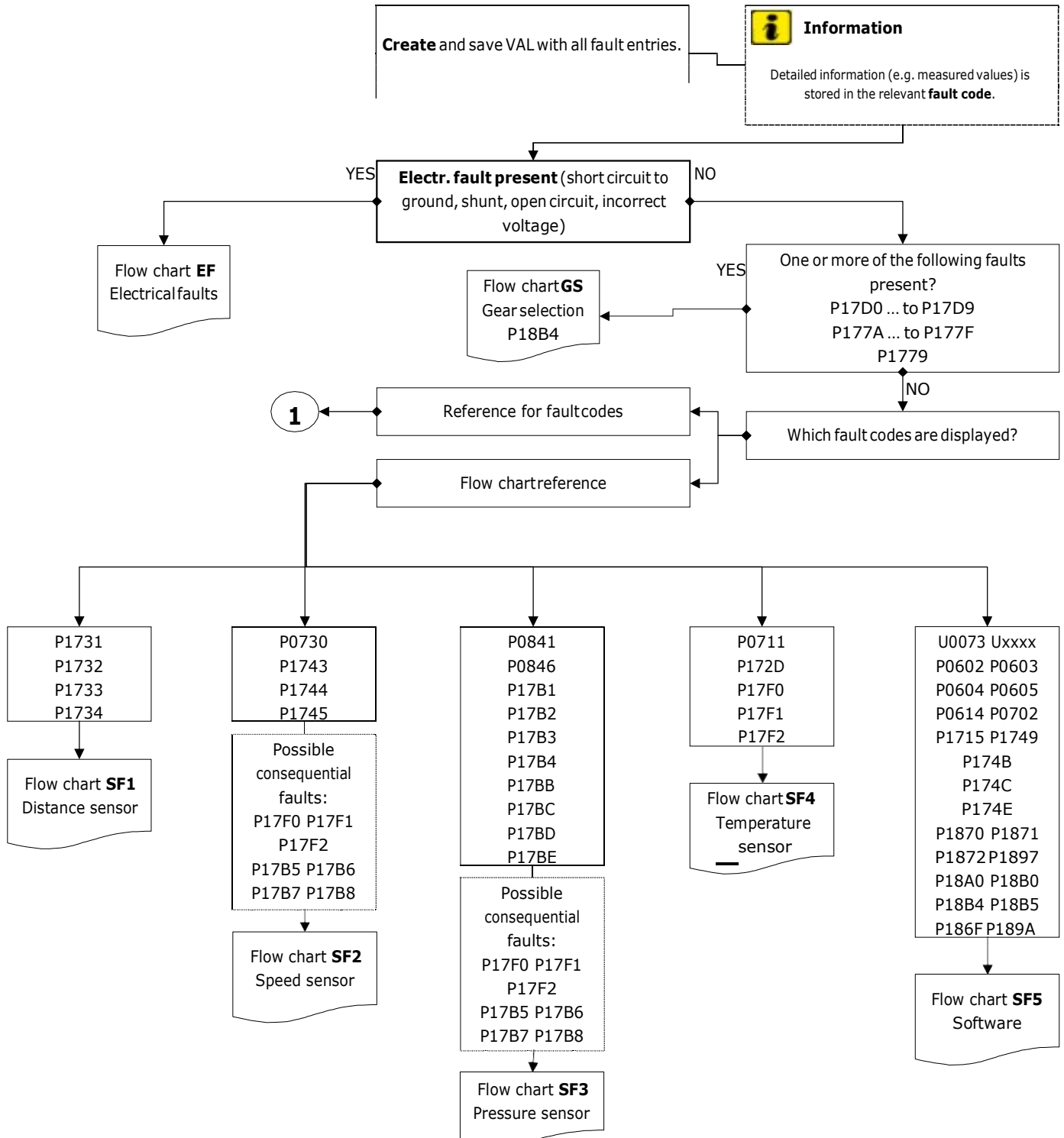


### Information

- Make sure you have the **latest** PIWIS Tester 9718 software installed.
- If **components are replaced**: Return to Warranty **Test Centre** and document all measures in PQIS.

### Reference material for the following work:

- Technical Information '0335 Vehicle Analysis Log (VAL) (15/08)'



GFF = Guided Fault Finding using PIWIS Tester 9718

## Sensor faults (preliminary work)

1

Fault code	Flow chart
P0602	SF5 Software
P0603	SF5 Software
P0604	SF5 Software
P0605	SF5 Software
P0614	SF5 Software
P0702	SF5 Software
P0711	SF4 Temperature sensor
P0730	SF2 Speed sensor
P0841	SF3 Pressure sensor
P0846	SF3 Pressure sensor
P1715	SF5 Software
P1731	SF1 Distance sensor
P1732	SF1 Distance sensor
P1733	SF1 Distance sensor
P1734	SF1 Distance sensor
P1743	SF2 Speed sensor
P1744	SF2 Speed sensor
P1745	SF2 Speed sensor
P1749	SF5 Software
P1870	SF5 Software
P1871	SF5 Software
P1872	SF5 Software
P1897	SF5 Software
P172D	SF4 Temperature sensor
P174B	SF5 Software
P174C	SF5 Software
P174E	SF5 Software
P186F	SF5 Software
P189A	SF5 Software
P189C	SF5 Software
P189D	SF5 Software
P17B1	SF3 Pressure sensor
P17B2	SF3 Pressure sensor
P17B3	SF3 Pressure sensor
P17B4	SF3 Pressure sensor
P17BB	SF3 Pressure sensor
P17BC	SF3 Pressure sensor
P17BD	SF3 Pressure sensor
P17BE	SF3 Pressure sensor
P17F0	SF4 Temperature sensor
P17F1	SF4 Temperature sensor
P17F2	SF4 Temperature sensor
P18A0	SF5 Software
P18B0	SF5 Software
P18B4	SF5 Software
P18B5	SF5 Software
Uxxxx	SF5 Software
U0073	SF5 Software

Flow chart  
SF0

9876543210  
+9976543210

## Distance sensor - P1731, P1732, P1733, P1734

(3730 - Flow charts of PDK fault codes; see also Technical Information, Gr. 3, No. 35/09)

Flow chart  
SF1



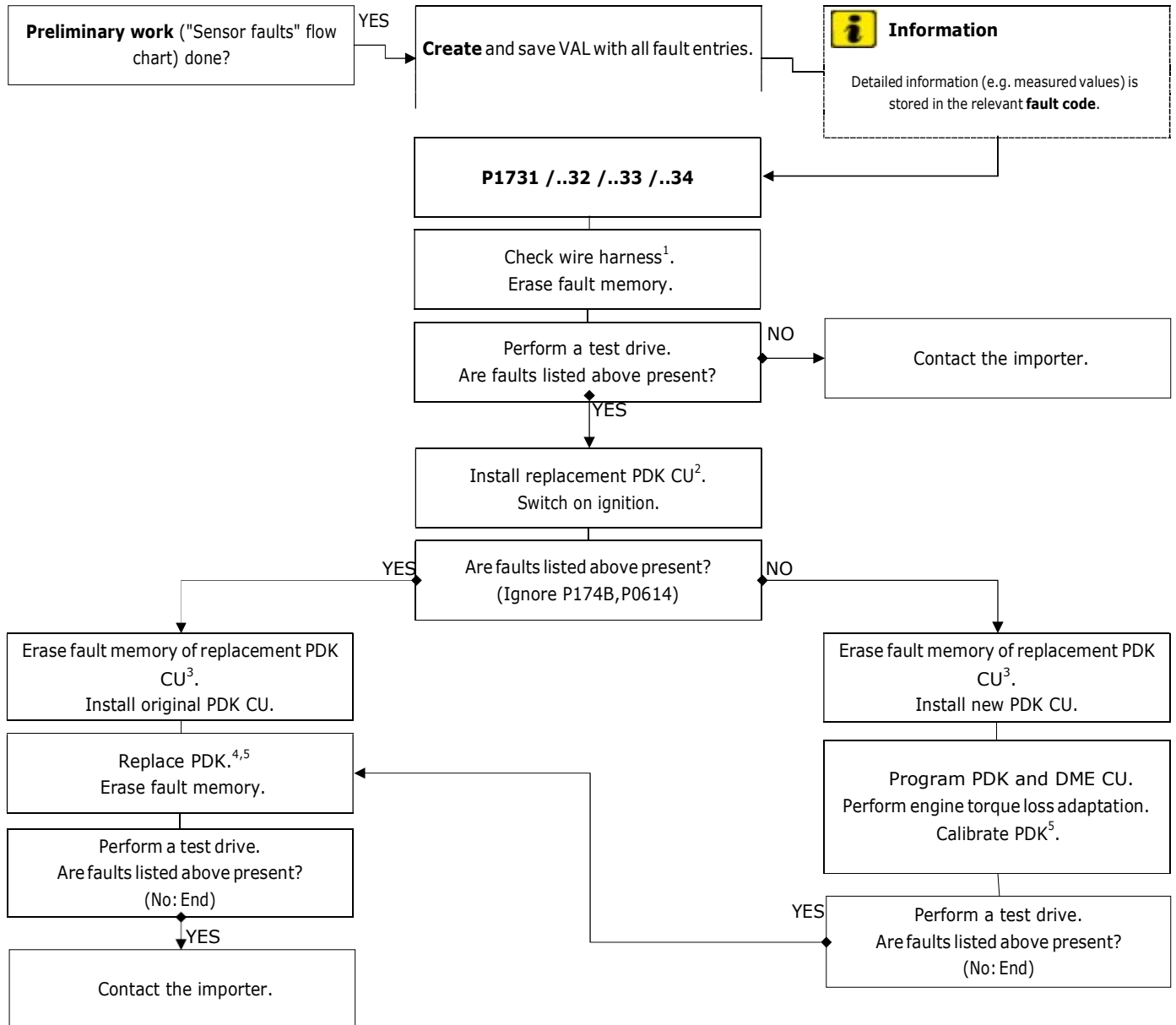
### Information

- Make sure you have the **latest** PIWIS Tester 9718 software installed.
- If **components are replaced**: Return to Warranty **Test Centre and** document all measures in PQIS.

### Reference material

 for the following work:

- ▶ Technical Information '0335 Vehicle Analysis Log (VAL) (15/08)'
- ▶ Workshop Manual '373019 Removing and installing transmission control unit (PDK)'
- ▶ Workshop Manual '373419 Removing and installing PDK transmission'



DME CU = DME control unit PDK CU = PDK control unit Electrohydraulic CU = Electrohydraulic control unit

GFF = Guided Fault Finding with PIWIS Tester 9718 PDK = Porsche Doppelkupplung

<sup>1</sup> Check wire harness continuity; disconnect and then reconnect plug connections, check for damage and soiling, clean if necessary.

<sup>2</sup> Replacement PDK CU: Control unit can be from another vehicle or new control unit. Do **not** program in either case.

<sup>3</sup> Re-install control unit taken from another vehicle.

<sup>4</sup> Perform engine torque loss adaptation and calibration after replacing parts.

<sup>5</sup> Calibrate: Select "Calibration after part replacement" for PIWIS software version 25.000 or higher.



## Speed sensor - P0730, P1743, P1744, P1745

(3730 - Flow charts of PDK fault codes; see also Technical Information, Gr. 3, No. 35/09)

Flow chart  
SF2

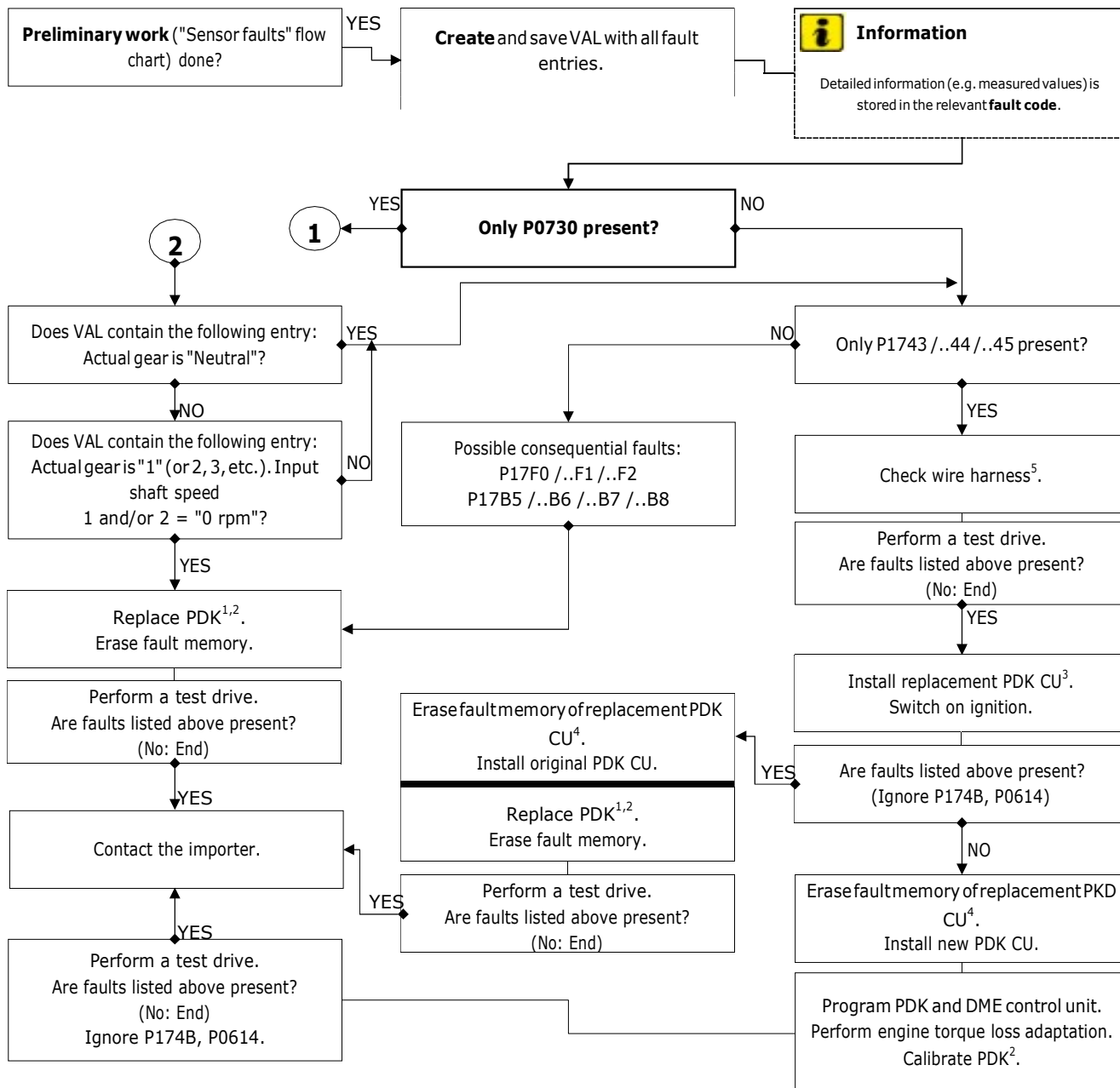


### Information

- Make sure you have the **latest** PIWIS Tester 9718 software installed.
- If **components are replaced**: Return to Warranty **Test Centre and** document all measures in PQIS.

### Reference material

- ▶ Technical Information '0335 Vehicle Analysis Log (VAL) (15/08)'
- ▶ Workshop Manual '387719 Removing and installing electrohydraulic control unit'
- ▶ Workshop Manual '373419 Removing and installing PDK transmission'



DME CU = DME control unit PDK CU = PDK control unit Electrohydraulic CU = Electrohydraulic control unit

GFF = Guided Fault Finding with PIWIS Tester 9718 PDK = Porsche Doppelkupplung

<sup>1</sup> Perform engine torque loss adaptation and calibration after replacing parts.

<sup>2</sup> Calibrate: Select "Calibration after part replacement" for PIWIS software version 25.000 or higher.

<sup>3</sup> Replacement PDK CU: Control unit can be from another vehicle or new control unit. Do **not** program in either case.

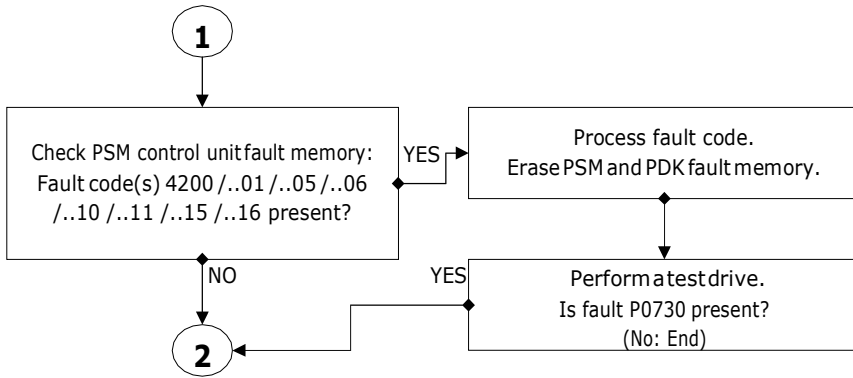
<sup>4</sup> Re-install control unit taken from another vehicle.

<sup>5</sup> Check wire harness continuity; check plug connections on transmission and wire harness side for damaged connectors/sleeves and soiling; check that plug connections are seated correctly.



# Speed sensor - P0730, P1743, P1744, P1745

997+997  
Flow chart  
SF2



## Pressure sensor - P0841, P0846, P17B1/..B2/..B3/..B4, P17BB/..BC/..BD/..BE

(3730 - Flow charts of PDK fault codes; see also Technical Information, Gr. 3, No. 35/09)

Flow chart  
PS3 9x7



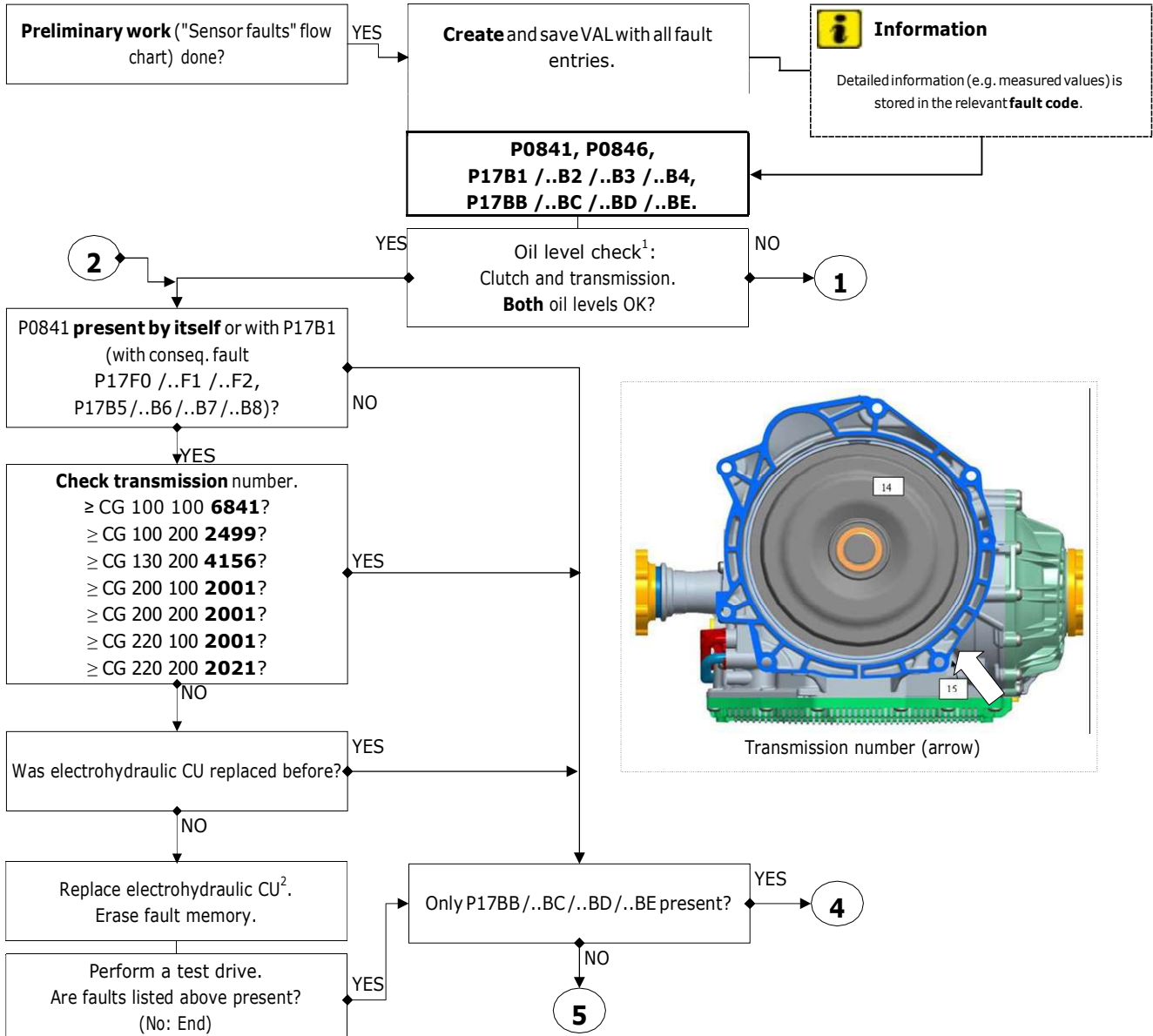
### Information

- Make sure you have the **latest** PIWIS Tester 9718 software installed.
- If **components are replaced**: Return to Warranty **Test Centre** and document all measures in PQIS.

### Reference material

 for the following work:

- ▶ Technical Information '0335 Vehicle Analysis Log (VAL) (15/08)'
- ▶ Workshop Manual '370235 Checking and topping up ATF (clutch fluid)'
- ▶ Workshop Manual '340135 Checking and topping up transmission oil'
- ▶ Workshop Manual '387719 Removing and installing electrohydraulic control unit'
- ▶ Workshop Manual '373419 Removing and installing PDK transmission'



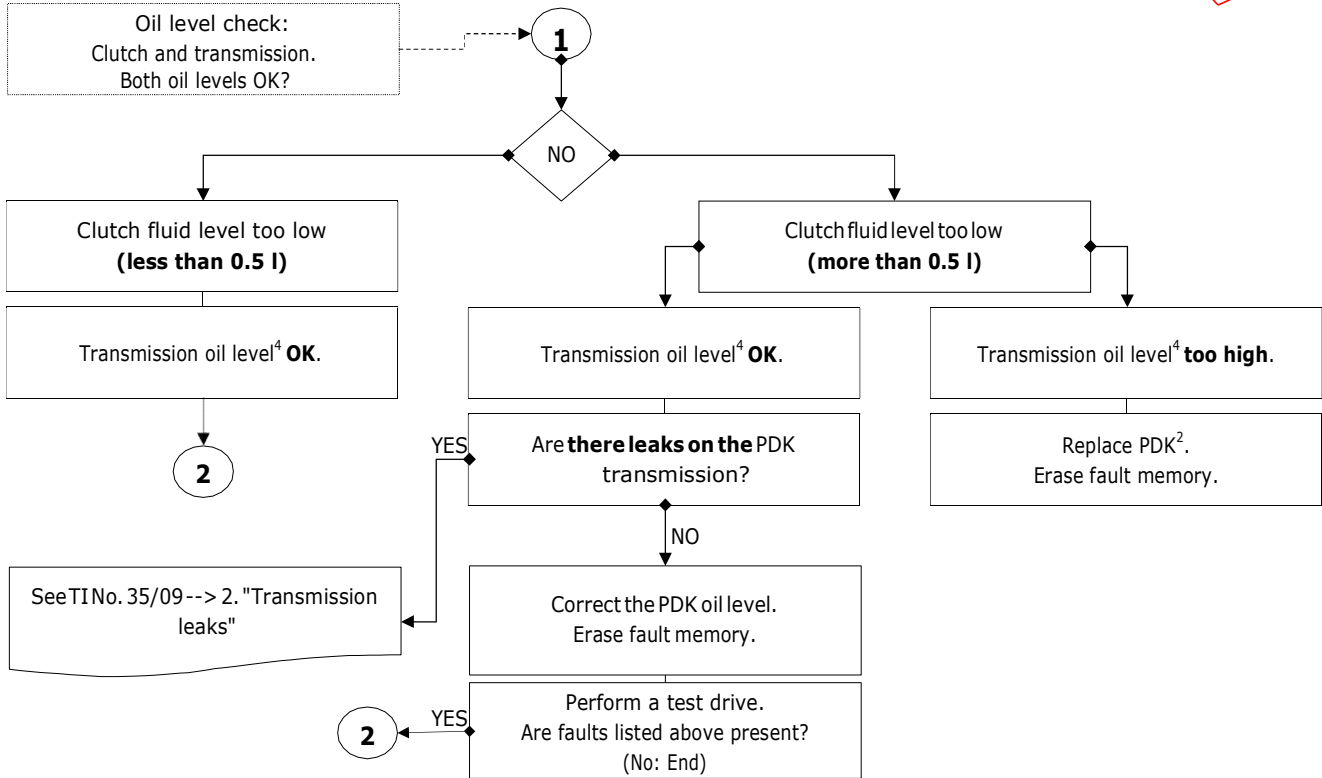
PDK CU = PDK control unit Electrohydraulic CU = Electrohydraulic control unit

GFF = Guided Fault Finding with PIWIS Tester 9718 PDK = Porsche Doppelkupplung

<sup>1</sup> If the oil level is "OK", only a small amount of oil should emerge (max. 0.1 l).

<sup>2</sup> Perform engine torque loss adaptation and calibration after replacing parts. Select "Calibration after part replacement" for PIWIS software version 25.000 or higher.

987x997



DMECU = DME control unit PDKCU = PDK control unit Electrohydraulic CU = Electrohydraulic control unit

GFF = Guided Fault Finding with PIWIS Tester 9718 PDK = Porsche Doppelkupplung

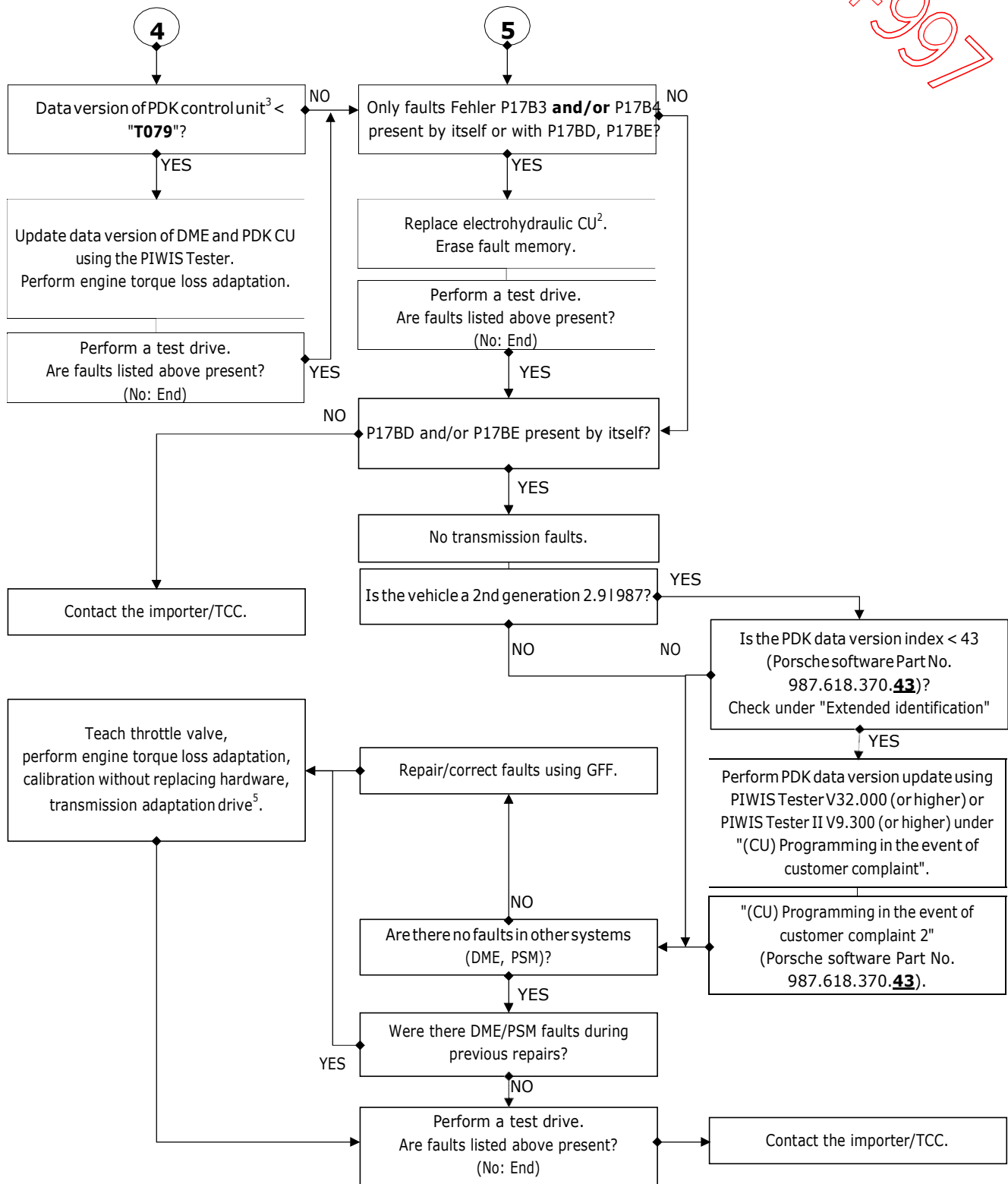
<sup>2</sup> Perform engine torque loss adaptation and calibration after replacing parts. Select "Calibration after part replacement" for PIWIS software version 25.000 or higher.

<sup>3</sup> Data version in PDK control unit under => 'Actual values' => 'Identification' in PIWIS Tester and in VAL.

<sup>4</sup> If the oil level is "OK", only a small amount of oil should emerge (max. 0.1 l).

987x997

987x997



DMECU = DME control unit PDK CU = PDK control unit Electrohydraulic CU = Electrohydraulic control unit

GFF = Guided Fault Finding with PIWIS Tester 9718 PDK = Porsche Doppelkupplung

<sup>2</sup> Perform engine torque loss adaptation and calibration after replacing parts. Select "Calibration after part replacement" for PIWIS software version 25.000 or higher.

<sup>3</sup> Data version in PDK control unit under => 'Actual values' => 'Identification' in PIWIS Tester and in VAL.

<sup>4</sup> If the oil level is "OK", only a small amount of oil should emerge (max. 0.1 l).

<sup>5</sup> Adaptation drive as per Technical Information GAG - No. 25/09

## Temperature sensor - P0711, P172D, P17F0, P17F1, P17F2

(3730 - Flow charts of PDK fault codes; see also Technical Information, Gr. 3, No. 35/09)

Flow chart  
SF4

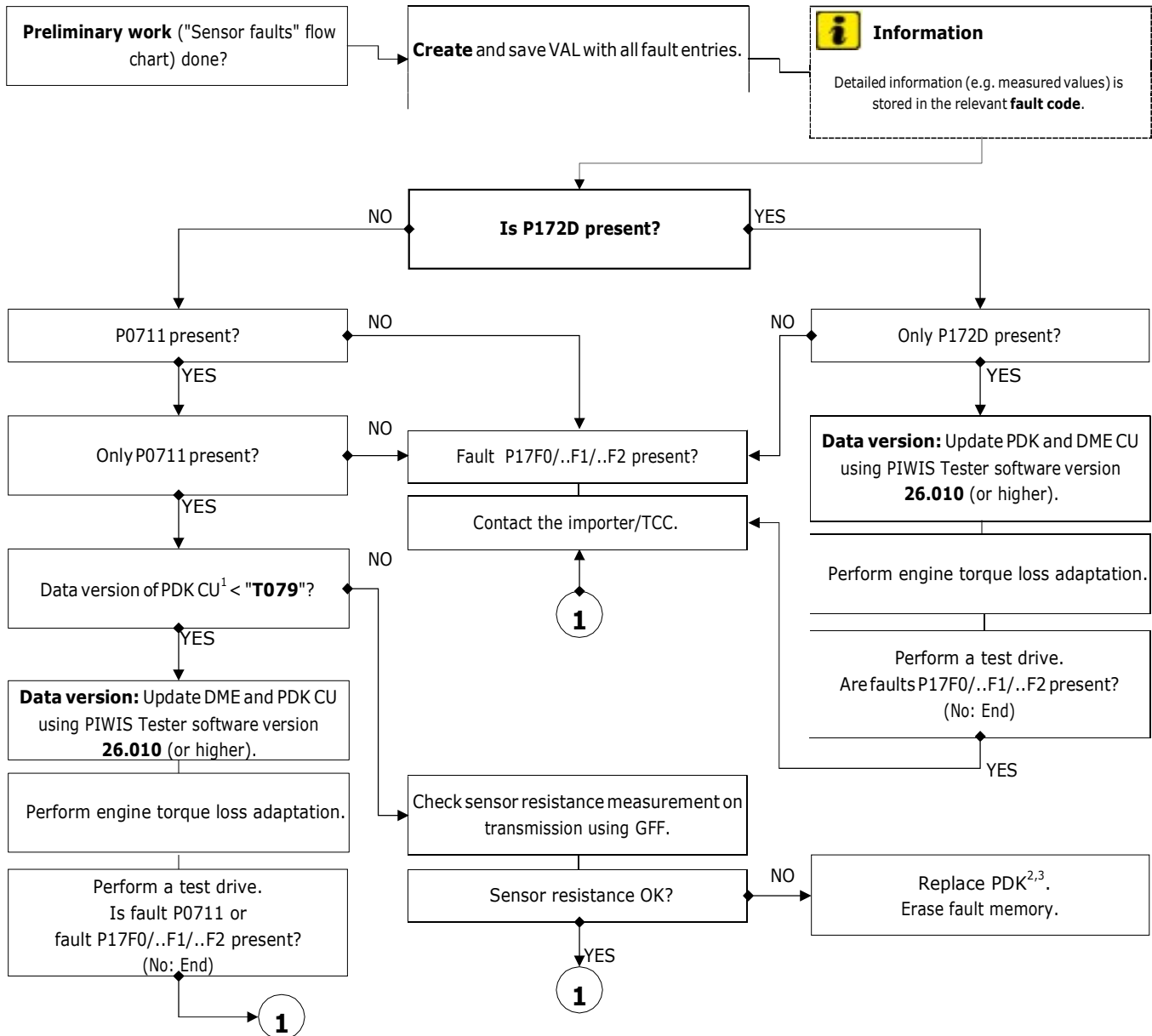


### Information

- Make sure you have the **latest** PIWIS Tester 9718 software installed.
- If **components are replaced**: Return to Warranty **Test Centre** and document all measures in PQIS.

### Reference material

- ▶ Technical Information '0335 Vehicle Analysis Log (VAL) (15/08)'
- ▶ Workshop Manual '387719 Removing and installing electrohydraulic control unit'
- ▶ Workshop Manual '373419 Removing and installing PDK transmission'



DME CU = DME control unit PDK CU = PDK control unit Electrohydraulic CU = Electrohydraulic control unit

GFF = Guided Fault Finding with PIWIS Tester 9718 PDK = Porsche Doppelkupplung

<sup>1</sup> Data version in PDK control unit under ----> 'Actual values' ----> 'Identification' in PIWIS Tester and in VAL.

<sup>2</sup> Perform engine torque loss adaptation and calibration after replacing parts.

<sup>3</sup> Calibrate: Select "Calibration after part replacement" for PIWIS software version 25.000 or higher.

<sup>4</sup> Replacement PDK CU: Control unit can be from another vehicle or new control unit. Do **not** program in either case.

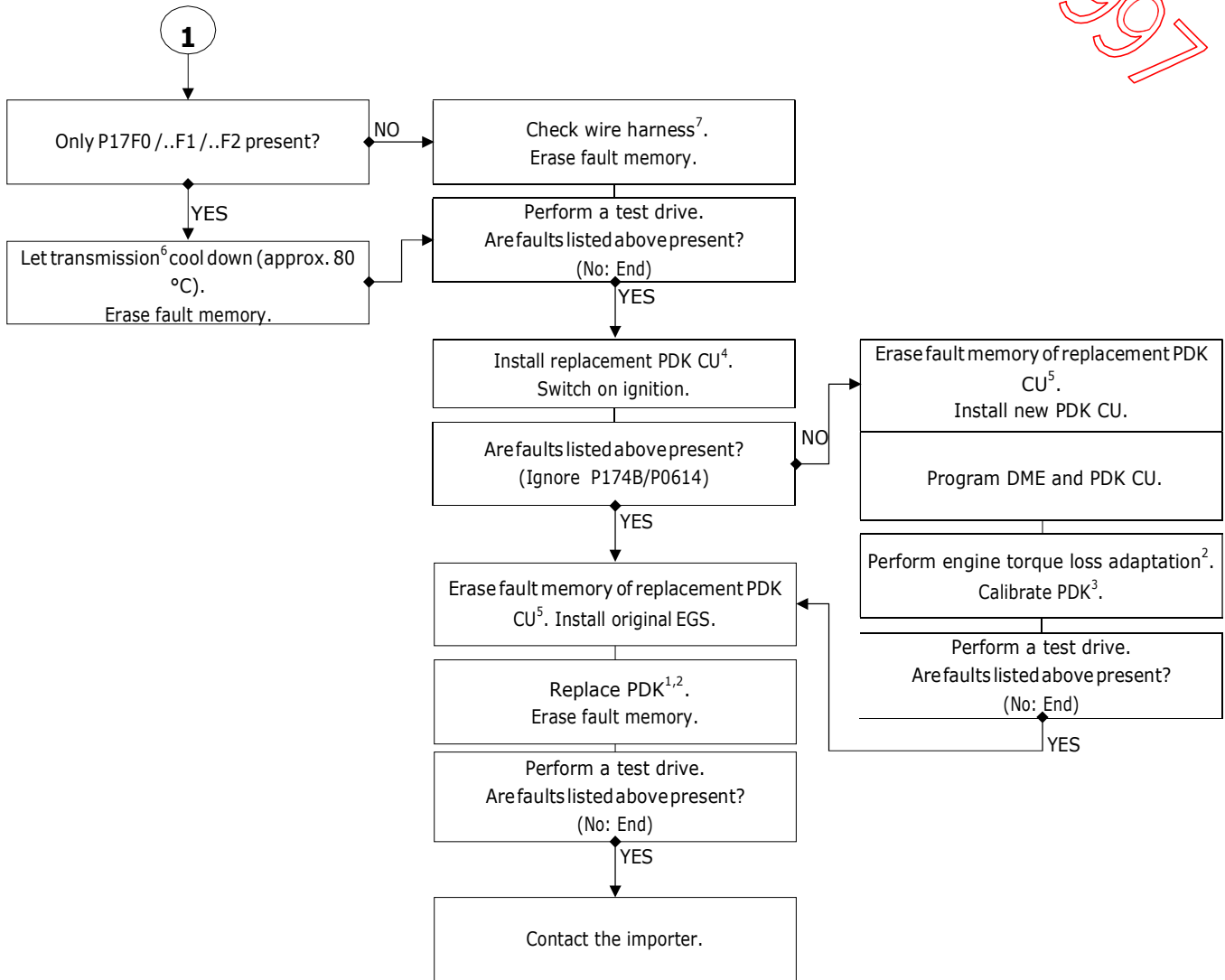
<sup>5</sup> Re-install control unit taken from another vehicle.

<sup>6</sup> Current transmission temperature below ----> 'Actual values'

<sup>7</sup> Check wire harness continuity; check plug connections on transmission and wire harness side for damaged connectors/sleeves and soiling; check that plug connections are seated correctly.

# Temperature sensor - P0711, P172D, P17F0, P17F1, P17F2

Flow chart  
SF4



DME CU = DME control unit PDK CU = PDK control unit Electrohydraulic CU = Electrohydraulic control unit

GFF = Guided Fault Finding with PIWIS Tester 9718 PDK = Porsche Doppelkupplung

<sup>1</sup> Data version in PDK control unit under ---> 'Actual values' ---> 'Identification' in PIWIS Tester and in VAL.

<sup>2</sup> Perform engine torque loss adaptation and calibration after replacing parts.

<sup>3</sup> Calibrate: Select "Calibration after part replacement" for PIWIS software version 25.000 or higher.

<sup>4</sup> Replacement PDK CU: Control unit can be from another vehicle or new control unit. Do **not** program in either case.

<sup>5</sup> Re-install control unit taken from another vehicle.

<sup>6</sup> Current transmission temperature below ---> 'Actual values'

<sup>7</sup> Check wire harness continuity; check plug connections on transmission and wire harness side for damaged connectors/sleeves and soiling; check that plug connections are seated correctly.



## Software faults

(3730 - Flow charts of PDK fault codes; see also Technical Information, Gr. 3, No. 35/09)

Flow chart  
SF5

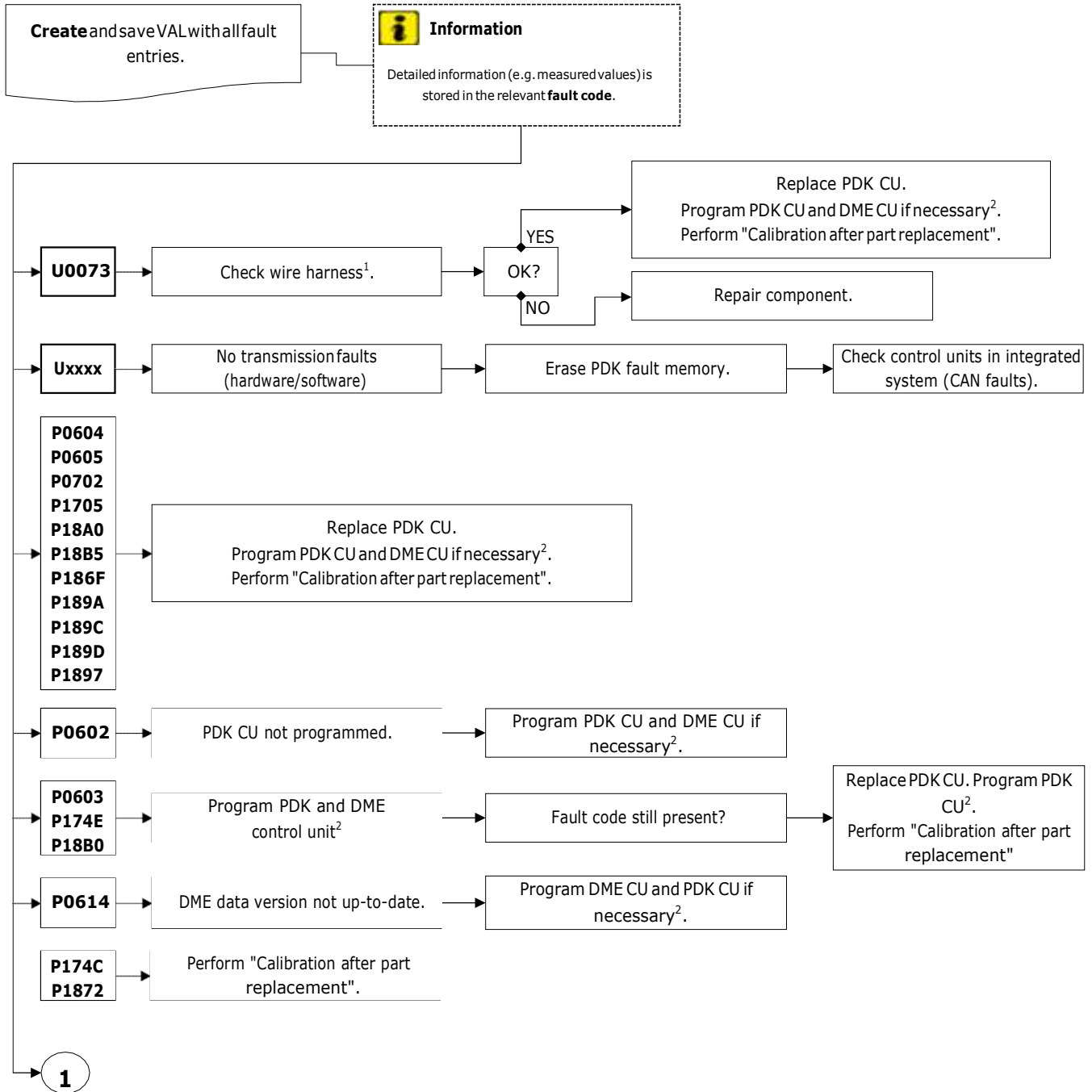


### Information

- Make sure you have the **latest** PIWIS Tester 9718 software installed.
- If **components are replaced**: Return to Warranty **Test Centre and** document all measures in PQIS.

**Reference material** for the following work:

- ▶ Technical Information '0335 Vehicle Analysis Log (VAL) (15/08)'
- ▶ Workshop Manual '373419 Removing and installing PDK transmission'



DME CU = DME control unit PDK CU = PDK control unit Electrohydraulic CU = Electrohydraulic GFF = Guided Fault Finding with PIWIS Tester 9718 PDK = Porsche Doppelkupplung control unit

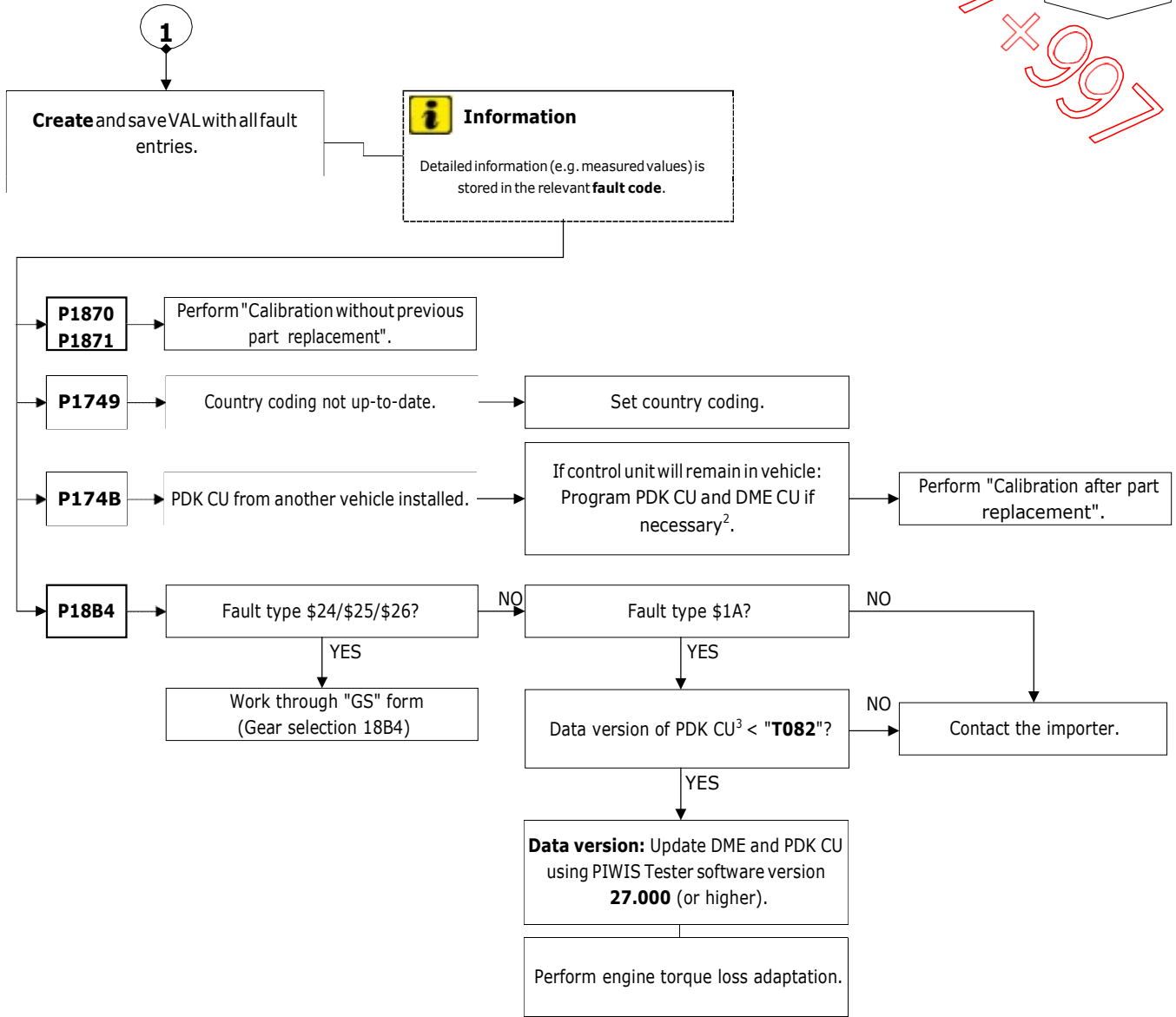
<sup>1</sup> Check wire harness continuity; check plug connections on transmission and wire harness side for damaged connectors/sleeves and soiling; check that plug connections are seated correctly.

<sup>2</sup> Perform engine torque loss adaptation after programming PDK and DME control unit.

# Software faults

997+997

**Flow chart SF5**



DME CU = DME control unit PDK CU = PDK control unit Electrohydraulic CU = Electrohydraulic GFF = Guided Fault Finding with PIWIS Tester 9718 PDK = Porsche Doppelkupplung control unit

<sup>2</sup> Perform engine torque loss adaptation after programming PDK and DME control unit.

<sup>3</sup> Data version in PDK control unit under ---> 'Actual values' ---> 'Identification' in PIWIS Tester and in VAL.

## Gear selection

(3730 - Flow charts of PDK fault codes; see also Technical Information, Gr. 3, No. 35/09)

Flow chart  
GS

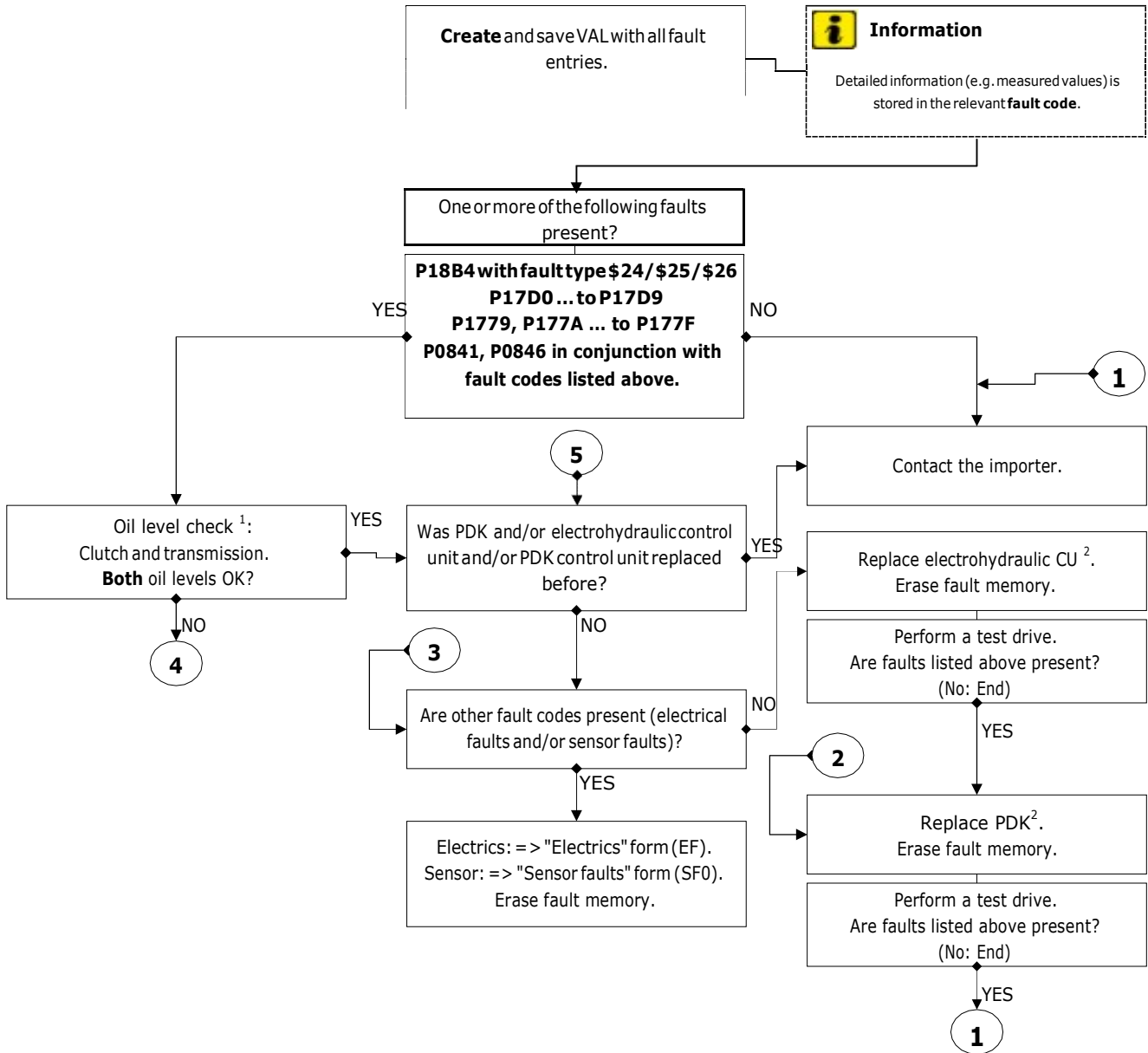


### Information

- Make sure you have the **latest** PIWIS Tester 9718 software installed.
- If **components are replaced**: Return to Warranty **Test Centre** and document all measures in PQIS.

### Reference material

- ▶ Technical Information '0335 Vehicle Analysis Log (VAL) (15/08)'
- ▶ Workshop Manual '370235 Checking and topping up ATF (clutch fluid)'
- ▶ Workshop Manual '340135 Checking and topping up transmission oil'
- ▶ Workshop Manual '387719 Removing and installing electrohydraulic control unit'
- ▶ Workshop Manual '373419 Removing and installing PDK transmission'



PDK CU = PDK control unit Electrohydraulic CU = Electrohydraulic control unit

GFF = Guided Fault Finding with PIWIS Tester 9718 PDK = Porsche Doppelkupplung

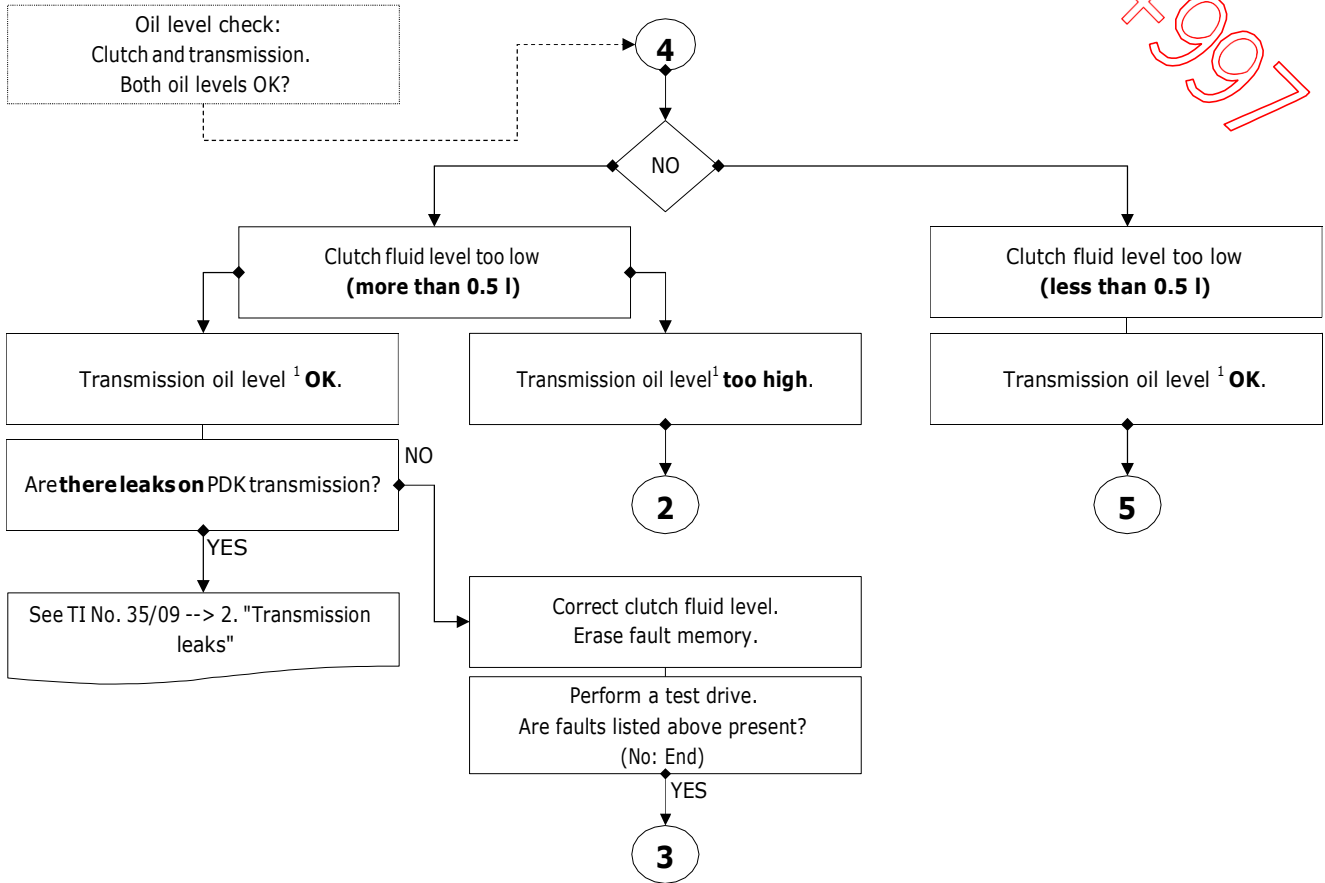
<sup>1</sup> If the oil level is "OK", only a small amount of oil should emerge (max. 0.1 l).

<sup>2</sup> Perform engine torque loss adaptation and calibration after replacing parts. Select "Calibration after part replacement" for PIWIS software version 25.000 or higher.

## Gear selection

987+997

**Flow chart  
GS**



<sup>1</sup> If the oil level is "OK", only a small amount of oil should emerge (max. 0.1 l).