

## Engine in limp-home mode, engine diagnosis indicator lamp lights up, fault code P11C300 or P019185 present in CDI control unit

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|-------------------|--------------------------------------------------------------------------------------------------------------|
| Topic number      | LI07.04-N-060527                                                                                             |
| Version           | 4                                                                                                            |
| Function group    | 07.04 Sender, Feeler, Sensors                                                                                |
| Date              | 02-13-2018                                                                                                   |
| Validity          | Engine 642 in model 906 ### #S from 819883 to 898437<br>Engine 642 in model 906 ### #N from 558446 to 580281 |
| Reason for change | Remedy adjusted, pictures added and parts table updated.                                                     |
| Reason for block  |                                                                                                              |

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### Complaint:

Engine in limp-home mode, engine diagnosis indicator lamp lights up, fault code P11C300 or P019185 present in CDI control unit.

### Cause:

Possibly incorrectly crimped contact sockets of electrical connector (1) on rail pressure sensor or fuel pressure sensor (2).

### Remedy:

Important: Do not replace the rail pressure sensor or the fuel pressure sensor (2)!

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If the fault code P11C300 or P019185 is present in the CDI control unit:

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1. Connect diagnostic device (see AD00.00-D-2000-04SD).

2. Perform quick test with diagnostic device and print out (see AD00.00-D-2000-04SD).

3. On model 906: Remove air intake hose (see AR09.10-D-8030SF).

4. Disconnect electrical connector (1) from rail pressure sensor or fuel pressure sensor (2) (see picture 01).

5. Cut off electrical connector (1).

Information: The severed electrical connector (1) is no longer required and can be disposed of.

6. Cut electrical lines (3) offset (dimension (a) = approx. 45 mm) to each other (see picture 02 and AR54.18-D-0100-06A).

# XENTRY TIPS

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Note: This is necessary so that the axial solder connectors (5) are not directly beside each other in subsequent steps.

Follow the procedure for repairs using axial solder connectors in the WIS document (see AR54.18-D-0100-06A).

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7. Strip wire ends of electrical lines (3, 4).

Information: Dimension (b) = approx. 15 mm, see picture 02 and AR54.18-D-0100-06A.

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8. Cut electrical lines (4) according to lengths of electrical lines (3).

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9. Twist axial solder connectors (5) onto electrical lines (3) (see picture 03).

Note: Only the axial solder connectors (5) specified here may be used!

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10. Twist electrical lines (3) together with electrical lines (4) according to the line colors (see picture 04 and AR54.18-D-0100-06A).

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11. Twist axial solder connectors (5) over the twisted wires (see picture 05).

Note: Position the axial solder connectors (5) centrally over the twisted wires. The red soldering rings are in the center of the axial solder connectors (5).

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12. Use a heat gun (6) to heat the red soldering rings of the axial solder connectors (5) until the red soldering rings melt over the twisted wires.

Information: In this way the electrical lines (3, 4) are soldered together (see picture 04 and AR54.18-D-0100-06A).

Note: Protect the working area with a heat shield (7).

Follow the procedure for axial solder connectors (5) in the WIS document (see AR54.18-D-0100-06A). Only the axial solder connectors (5) specified here may be used!

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13. After the line repair, wrap the repair point with fabric tape (8) (see picture 06 and AR00.19-D-0100-08A).

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14. Cut protective hose (9) to the required length according to the repair point.

Note: Cut the protective plastic wire cover (9) in a spiral with scissors (see picture 07). This makes it easier to pull the protective plastic wire cover (9) over the repair point.

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15. Twist protective plastic wire cover (9) over repair point.

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16. Connect electrical connector repair solution (10) to rail pressure sensor or fuel pressure sensor (2).

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17. On model 906: Install air intake hose (see AR09.10-D-8030SF).
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# XENTRY TIPS

18. Perform quick test with diagnostic device and erase fault memory (see AD00.00-S-2000-04SD).

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19. Disconnect diagnostic device (see AD00.00-D-2000-04SD).

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If this is a repeat repair:

1. Perform quick test with diagnostic device (see AD00.00-S-2000-04SD).

2. Create a PTSS case and attach the current quick test results and photographs of previous repair.

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| Attachments |                                                                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| File        | Description                                                                                                                                     |
| 01.jpg      | Electrical connector (1),<br>Rail pressure sensor or fuel pressure sensor (2),<br>Electrical lines (3)                                          |
| 02.jpg      | Cut electrical lines (3, 4) offset to each other.<br>Dimension (a) = 45 mm.<br>Remove insulation on line ends<br>Approx. dimension (b) = 15 mm. |
| 03.jpg      | Electrical lines (3),<br>Electrical lines (4),<br>Axial solder connectors (5),<br>Electrical connector repair solution (10)                     |
| 04.jpg      | Electrical lines (3),<br>Electrical lines (4),<br>Axial solder connectors (5),<br>Electrical connector repair solution (10)                     |
| 05.jpg      | Axial solder connectors (5),<br>Heat gun (6),<br>Heat shield (7),<br>Electrical connector repair solution (10)                                  |
| 06.jpg      | Fabric tape (8),<br>Electrical connector repair solution (10)                                                                                   |
| 07.jpg      | Protective hose (9),<br>Electrical connector repair solution (10)                                                                               |

| Symptoms                                                                                   |
|--------------------------------------------------------------------------------------------|
| Power generation / Engine management / Indicator lamp / Engine diagnosis / lit             |
| Power generation / Engine management / Engine performance / Goes into limp-home mode       |
| Power generation / Engine management / Engine performance / Poor/delayed throttle response |
| Power generation / Engine management / Engine performance / No/poor output                 |
| Power generation / Engine management / Engine performance / Cuts off                       |

# XENTRY TIPS

Power generation / Engine management / Engine performance / Poor acceleration

| Control unit/fault code                                                                           |            |                                                                                                  |
|---------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------|
| Control unit                                                                                      | Fault code | Fault text                                                                                       |
| N3/35 - Motor electronics 'CDI60' for combustion engine 'OM642' (CDI) (Code: MP6) (CR60NFZ_EURO6) | P019185    | The rail pressure sensor has a malfunction. There is a signal above the permissible limit value. |
| CDI60Common Rail Diesel Injection (CR60NFZ)                                                       | P11C300    | The upper limit value of component B4/17 (Rail pressure sensor) has been exceeded.               |
| CDI6Common Rail Diesel Injection (CR6NFZ)                                                         | 11C300     | The upper limit value of component B4/17 (Rail pressure sensor) has been exceeded.               |

| Parts           |     |     |                                      |          |                                                                                                            |     |
|-----------------|-----|-----|--------------------------------------|----------|------------------------------------------------------------------------------------------------------------|-----|
| Part number     | ES1 | ES2 | Designation                          | Quantity | Note                                                                                                       | EPC |
| A 642 150 52 01 |     |     | Electrical connector repair solution | 1        | Information: The electrical connector repair solution (10) is supplied including the electrical lines (4). | X   |
| A 000 982 96 10 |     |     | Axial solder connector               | 3        | Axial solder connector with ø 0.8 mm2.                                                                     | X   |
| A 006 989 84 85 | 10  |     | Fabric adhesive tape                 | 1        |                                                                                                            | X   |
| A 000 546 16 30 |     |     | Protective hose                      | 1        | Material bought by the meter                                                                               | X   |

| Operation numbers/damage codes |                                   |      |             |                                                                                                                                                                           |
|--------------------------------|-----------------------------------|------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Op. no.                        | Operation text                    | Time | Damage code | Note                                                                                                                                                                      |
| 54-1011                        | PERFORM QUICK TEST                | -    |             |                                                                                                                                                                           |
| 54-9204                        | REPAIR ELECTRICAL LINE FOR ...    | -    | 07297 73    | Rail pressure sensor - Electrical fault<br>The listed damage code is not to be considered as an acceptance of costs. The general guidelines in the Warranty Manual apply. |
| 54-0650                        | BATTERY CHARGER DURING QUICK TEST |      |             |                                                                                                                                                                           |

| WIS-References      |                                                             |                                                                                       |            |
|---------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------|------------|
| Document number     | Title                                                       | Note                                                                                  | Allocation |
| WS54.00-Z-9999AZ    | Special tool for car electrical system                      | Overview of wiring harness repair kit                                                 | Remedy     |
| PE07.16-D-2101-97AV | Wiring diagram of common rail diesel injection control unit | Engine 642 as of 01.07.13 in model 906.1/2/6/7 with code MP6 (Engine version Euro VI) | Remedy     |

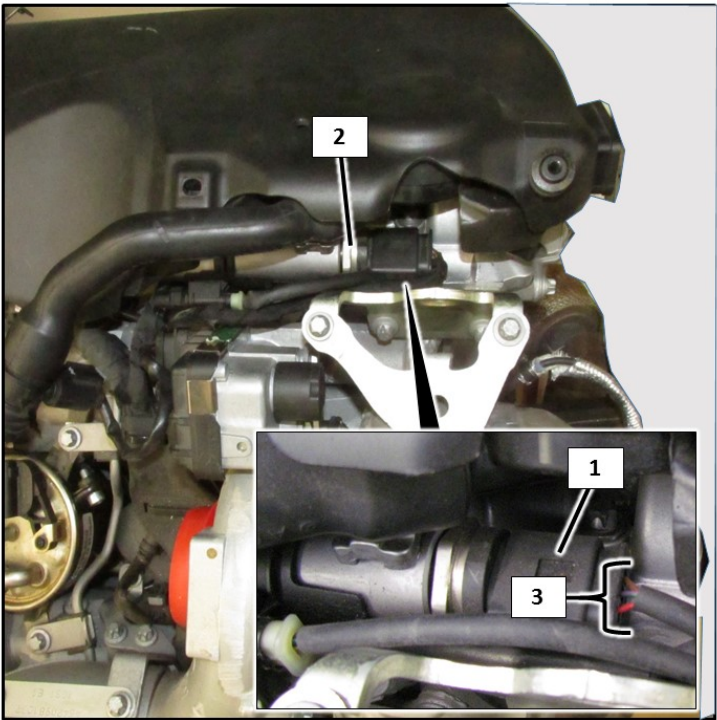
# XENTRY TIPS

|                     |                                                     |                                                                                                                                                                                                            |        |
|---------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|                     |                                                     | except code MH3 (Low-emission engine EPA 13 / CARB)<br>except code ZL3 (National version for Latin America)<br>except code ZU7 (National version for Canada)<br>except code ZU8 (National version for USA) |        |
| AR54.18-D-0100-06A  | Repair wiring harness using axial solder connectors | Model 906                                                                                                                                                                                                  | Remedy |
| AR00.19-D-0100-08A  | Protect repair point after line repair              | Model 906                                                                                                                                                                                                  | Remedy |
| WS54.00-P-0049B     | 000 588 00 84 00 Heat gun                           |                                                                                                                                                                                                            | Remedy |
| AD00.00-D-2000-04SD | Connect STAR DIAGNOSIS, read out fault memory       | Model 906                                                                                                                                                                                                  | Remedy |
| AR09.10-D-8030SF    | Remove/install air intake hose                      | Engine 642.896/898/992/993 in model 906<br>Air intake hose downstream of air filter                                                                                                                        | Remedy |

| Validity     |        |              |
|--------------|--------|--------------|
| Vehicle      | Engine | Transmission |
| Sprinter III | 642    | *            |

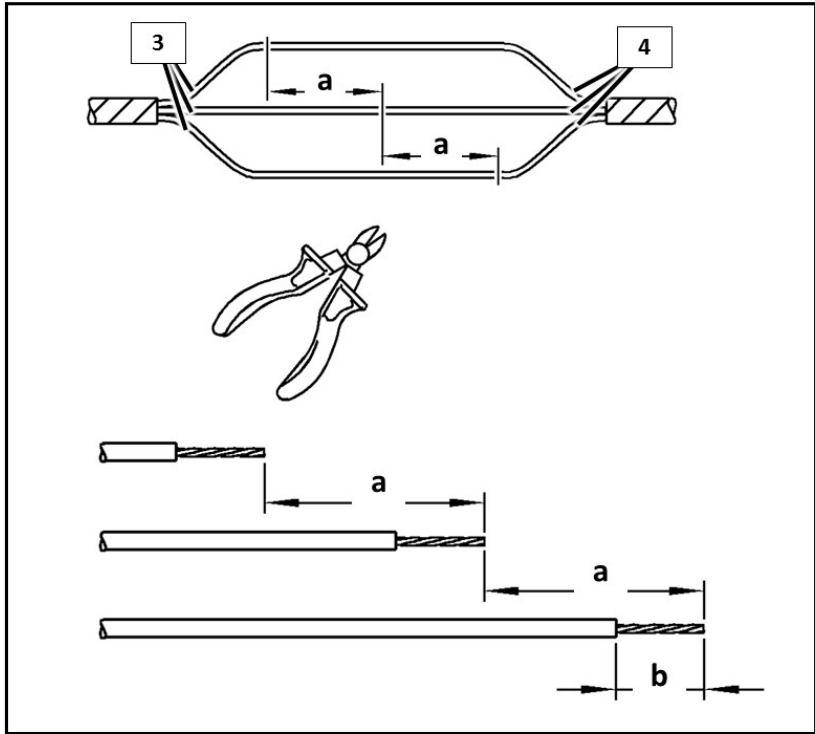
## Attachments

01.jpg:

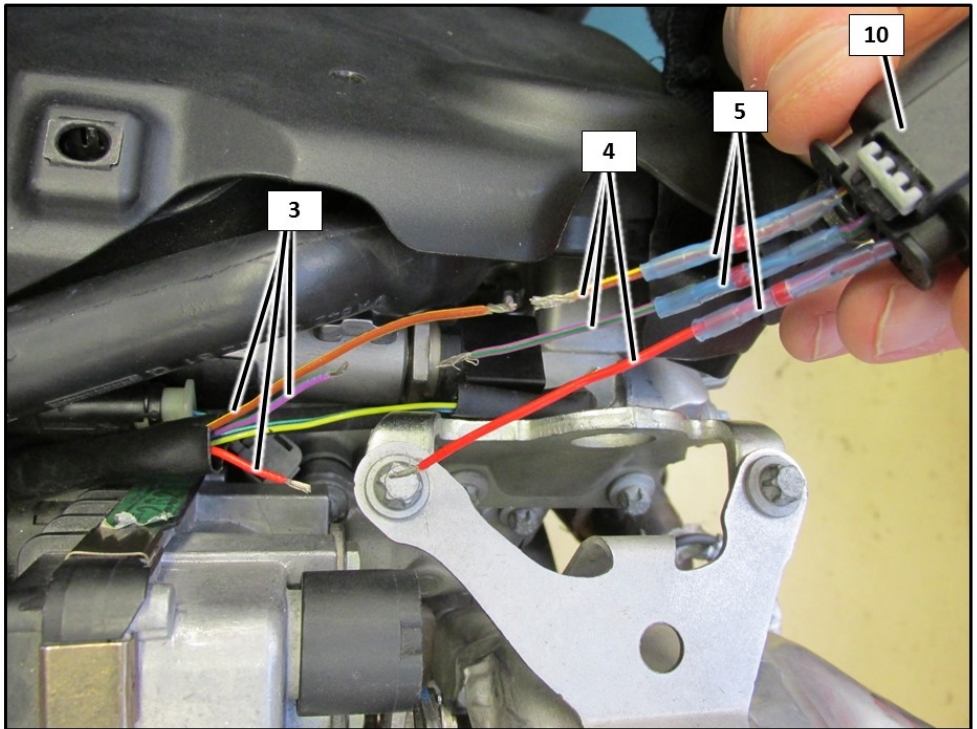


## XENTRY TIPS

02.jpg:



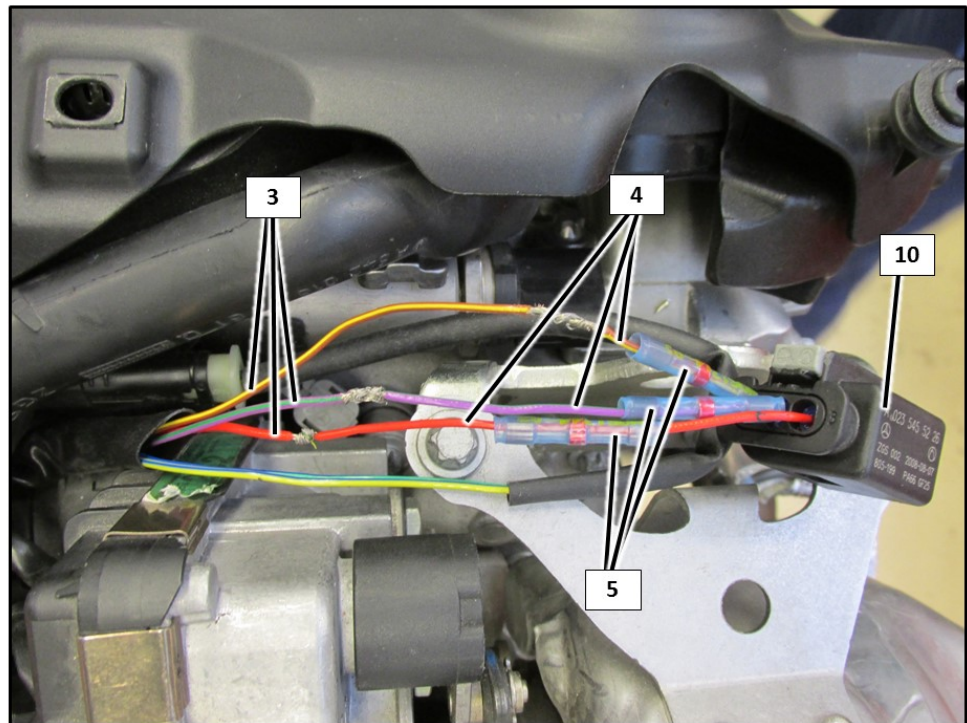
03.jpg:



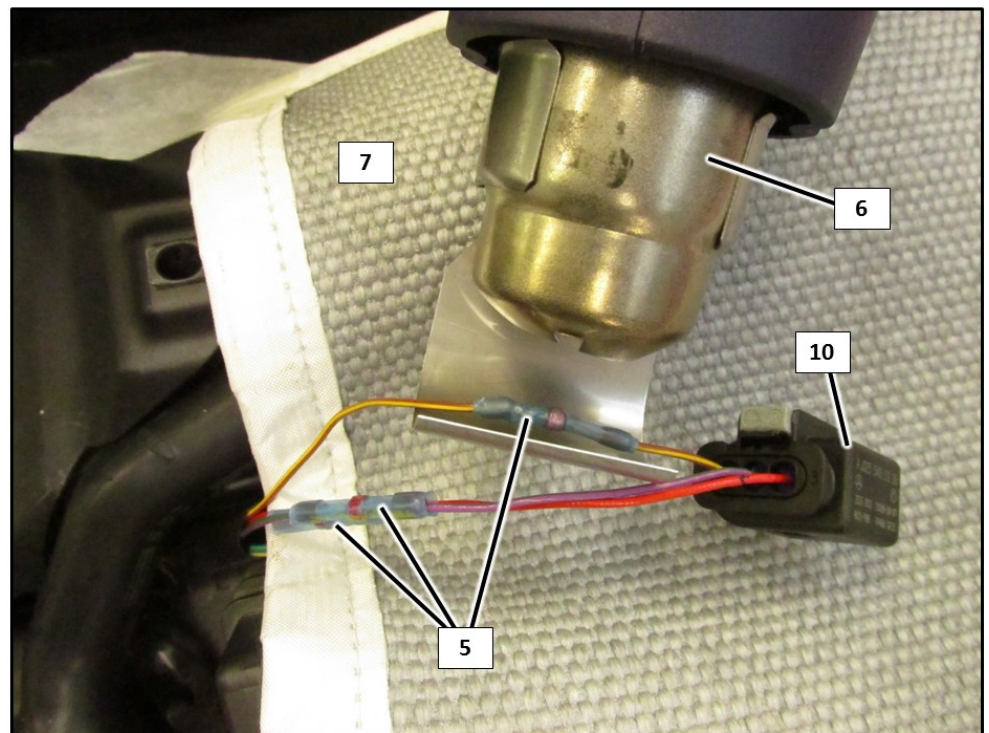
# XENTRY TIPS

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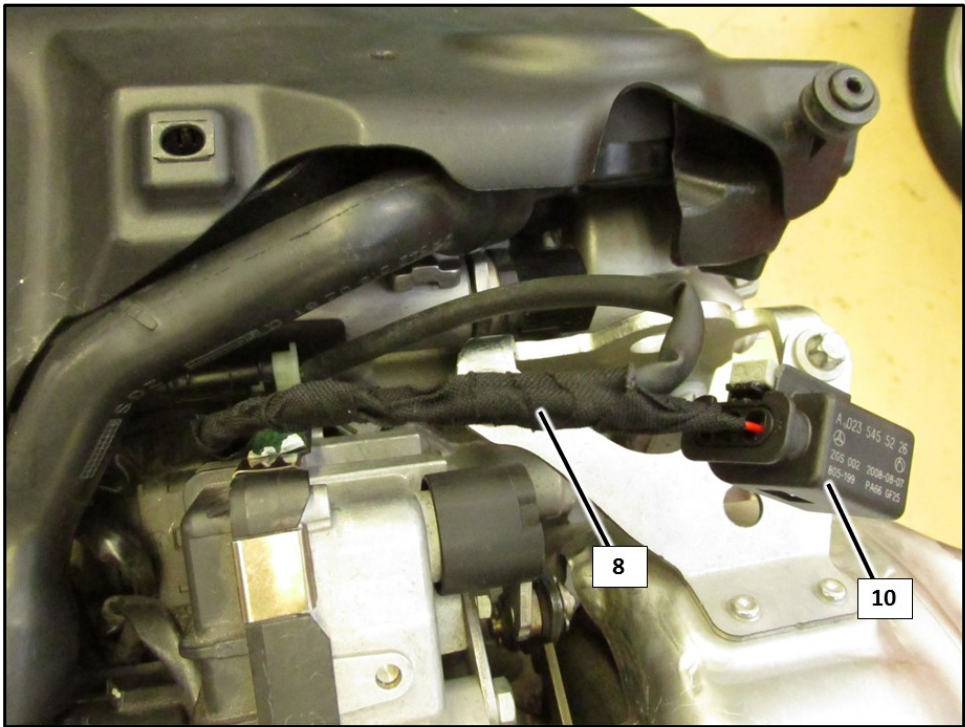
04.jpg:



05.jpg:



06.jpg:



07.jpg:

