



2013 UNITED STATES GRAND PRIX

From	The FIA Formula 1 Technical Delegate	Document	45
To	All Teams, All Officials	Date	17 November 2013
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Technical Report

The following parts have been replaced during the Parc Fermé yesterday and today:

Red Bull Racing Renault:

Car 01:

- RHS rear lower wishbone
- RHS rear upright/driveshaft assembly
- RHS rear wishbone loom
- RHS rear wheel speed sensor
- RHS rear HIU
- Gearbox loom
- Longitudinal gearbox oil system shuttle valve
- Plank
- Skids

Car 02: Front and rear brake friction material

Ferrari:

Car 04: RHS front wheel speed pick up sensor

McLaren Mercedes:

Car 05:

- RHS rear exhaust panel
- LHS front outer brake drum

Car 06:

- Steering wheel
- Steering column
- Steering rack

Parameters for steering rack and column change
LHS rear brake calliper
LHS rear brake calliper thermocouple

Lotus Renault:

Car 07: Clutch temperature sensor
 Parameters for clutch temperature sensor change
 Protective sleeving on LHS exhaust gas temperature sensor
 LHS rear drum shroud
 KERS battery pack
 KCU assembly
 Parameters for KERS pack change

Car 08: PAS rack assembly
 Parameters for PAS rack change

Mercedes:

Car 09: LHS and RHS Coanda channel

Car 10: LHS and RHS Coanda channel
 RHS rear brake duct drum

Sauber Ferrari:

Car 12: Seals on gas bottle of rear suspension heave spring system

Force India Mercedes:

Car 14: Tridair receptacles on bodywork
 LHS rear brake duct barrel

Car 15: Front brake friction material
 RHS brake duct components
 Rain light AV mount bobbin
 RHS rear wheel nut retainer

Toro Rosso Ferrari:

Car 18: LHS rear brake drum sealing

Car 19: Floor pressure sensor

Caterham Renault:

Car 21: Gearbox loom
Parameters for gear barrel potentiometer change

Marussia Cosworth:

Car 22: Engine throttle bodies
Parameters for change of engine throttle bodies
1st, 2nd and 6th gear ratio pair
Gearbox oil filters

Car 23: RHS rear anti-roll bar drop link
Circlip on the LHS rear anti-roll bar drop link
LHS front outboard brake wear LVDT
RHS front inner brake wear LVDT

All above parts have been replaced with the approval of the FIA technical delegate following a written request from the team concerned, this being in accordance with Article 34.1 of the 2013 Formula One Sporting Regulations.

Jo Bauer

The FIA Formula 1 Technical Delegate