



# Ohio Department of Transportation's

2015 PERFECT TRUCK PROGRAM

# The Perfect Truck Program

- ▶ Growing concerns that low bid may not get us the best purchase.
- ▶ Operators and mechanics are not getting input on what is being bought.
- ▶ Are trucks being built to the needs of the locations in which they reside.



The Office of Equipment Management travelled to all Districts and met with employees to discuss how the truck program could be improved.

Concerns:

- Vehicle reliability
- Why do we have to buy low bid equipment
- **Not enough power**
- Not given the option to purchase the right truck for the job.

# 2015 Truck Run

- OEM met with Manufacturers to create a specification and Multiple Award Contract in which any bidder who met the minimum qualification would be awarded the contract.
- Freightliner, International, Mack and Western Star bid and were awarded the contract.
- ODOT committed to purchase, as a minimum, 12 of each manufacturer's trucks, allowing for 1 of each truck to be placed in each of ODOT's 12 Districts.
- The remaining chassis would be purchased as low bid dictated.

# 2015 Truck Run

- OEM also created specification options for higher horsepower/torque drive trains systems.
  1. Base: 300HP/1000FT-LBS
  2. 350HP/1150FT-LBS
  3. 365HP/1250FT-LBS
  4. 430HP/1550FT-LBS
- Options 1, 2 and 3 kept the automatic transmission in the Allison 3000 series.
- Option 4 require the chassis to be equipped with an Allison 4000 series transmission.

# 2015 Truck Run

- District were asked to meet with each county's employees to review the upcoming orders.
  - District Equipment Managers referred to the Truck Run Option Handout and the Truck Run Order Check List to build their trucks based off current contract options.
- Trucks were purchased and are currently entering into service.

Freightliner 114 SD



Western Star 4700



International 7400



Mack Granite



# Freightliner

114 SD

Base Price: \$93,000



## Engines:

Cummins ISL9

Detroit Diesel DD13

## Transmission:

Allison Transmission



# Freightliner

114 SD

## Electrical:

1. Programming is pre-written by the manufacturer. You pick your programming option from a set list of parameter codes.
2. Switch location, can be overhead center or over driver.
3. Freightliner's smart-plex is a multiple plug configuration that runs input and output devices. ODOT spec requires that these plugs are converted to a 7-pin Metri-pack plug through a conversion harness to work with ODOT's body light kit.

## Specs:

1. Storage location need to be added as an option.
2. May require frame extension, depending on plow hitch make and model.

## Software:

1. Service Link is available through Freightliner Access as per contract requirements
2. Cummins Software will be required to be purchased separately.
3. Detroit Software will be required to purchased separately.

# Freightliner

108 SD

ODOT is also evaluating the Freightliner 108 SD.

The 108 SD has a set back front axle design.

Pros:

- \$1000 -\$1500 cheaper than the 114 SD

- Better turning radius

Cons:

- Concerns over the increased weight to the front axle.

  - Engine sits farther forward over the front axle.

  - Front plow extends out farther from the front axle.

  - Extra plows may push the maximum front axle capacity.

Currently ODOT is building these with single and tandem axle configurations, but limiting the plow configuration to a front plow only.



# International

7400/7600 Models

Base Price: \$85,600



## Engines:

International N9,  
N10 and N13

## Transmission:

Allison Transmission



# International

## 7400/7600 Models

### Electrical:

Switches are multiplexed. They are supplied in bundles of 6 per remote power module (RPM.)

Switches can be independently programmed for special use. i.e. timers, lights, flash-modes, etc.

### Specs:

Beginning 2015 the International 7400/7600 models converted to a Selective Catalytic Reduction (SCR).

1. All chassis will use Diesel Exhaust Fluid (DEF)
2. Smaller radiator and fan.
3. Cab is lower to the ground

### Software:

1. International Body Builder, Service and Parts Manuals are available as per contract.
2. Purchaser off the ODOT Term Contract (DOT023) are permitted to use ODOT's account at no charge.
3. Engine Diagnostics is performed through ServiceMaxx.



# Mack Trucks

Granite

Base Price: \$99,300



**Engines:**  
Cummins ISL9  
Mack MP7

**Transmission:**  
Allison Transmission



# Mack Trucks

## Granite

### Electrical:

All Plugs are standardized to ODOT's Specification. (Plow Lights, Body Builder, Speed Sensor and Brake controller.

Switches are 12volt on/off. No programming available.

### Specs:

Frames are narrower and require spacer plates for attachments such as under body plows.

Cab is narrow.

How will Force America be installed with the automatic transmission console?

Can these be installed with a manual transmission?

### Software:

ODOT is currently working on the specifics for the parts and service software.



# Western Star

4700 Model

Base Price: \$98,700



**Engines:**  
Cummins ISL9  
Detroit Diesel DD13

**Transmission:**  
Allison Transmission



# Western Star

4700 Model

## Electrical:

All Plugs are standardized to ODOT's Specification. (Plow Lights, Body Builder, Speed Sensor and Brake controller.

Switch in the dash are all direct wired, non-multiplexed, 12 volt.

## Specs:

May require frame extension, depending on plow hitch make and model.

## Software:

Freightliner Access for parts and service as per contract requirements

Cummins Software will be required to be purchased separately.

Detroit Software will be required to purchased separately.

# ODOT's Evaluation

How long does it take to determine if a truck is good?

What determines if a truck is good?

How do you objectively rate the truck?

# New to the Trucks

- Heated, hood-mounted convex mirrors
- Heated, LED plow lights
- Heated Front windshields
- Stainless or aluminum air tanks
- All tank straps will be stainless or aluminum
- Bump Shifter on Allison T-Shift
- DEF After treatment on ALL Makes and Models

# Thank You

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