

25. MECHANIZATION(a) Design

- (i) Scout Car - The results of the demonstration of the pilot model held at Oshawa 24th August, were generally satisfactory.

The re-arrangement of controls is satisfactory with the exception of the accelerator position. This will be improved by altering the instrument panel. Cooling design modifications are still being investigated. Pilot Model testing is being continued by the contractor to prove components.

- (ii) Reconnaissance Car - Pilot Model with 270 cu. in. engine is undergoing tests by Chassis manufacturer to prove components. Fitments and stowage arrangements are progressing. Preliminary design of driver's compartment is not satisfactory. It is being revised to provide proper foot room for the driver.
- (iii) Armoured Car - Non-delivery of armour plate is delaying construction of the first pilot hull. Fitments and stowage arrangements are progressing on the wooden mock-up. Preliminary cooling investigations have been completed and the engine cover is being re-designed as a result.
- (iv) Universal Carrier - Investigation of the possible use of rubber track is progressing.
- (v) Armoured Observation Post Mark II/L - The Contract Demand for these vehicles has been raised and the contractor is proceeding with tooling for production.
- (vi) General Armoured Fighting Vehicles - Armour and bullet proof plate specifications are now based solely on ballistic requirements. Specifications are being revised to ensure that the ability to meet ballistic requirements is not diminished after welding.
- (vii) Heavy Utility Car - Tooling for production of body and chassis is progressing at the manufacturer's plant. The adaptation of wireless and light ambulance equipment to the basic body is now in progress.
- (viii) Field Artillery Tractor - Preliminary pilot model drawings are being made by the manufacturer as a result of requested changes.
- (ix) 3-Ton 6 x 4 Breakdown - In view of the unsatisfactory performance of the previously developed 2 rear-wheel drive chassis, a detailed inspection of another manufacturer's model, with 4 rear-wheels driving, has been completed.
- (x) F.W.D Breakdown Tractor - Pilot model with new design jack shaft tested at Barriefield 25th August. Following the test, the jack shaft was slightly distorted and centre differential pinions fractured. The contractor has promised a further change in design by 1st September.
- (xi) F.W.D. Medium Artillery Tractor - Pilot model will be complete by 5th September. New design jack shafts and third differential to be installed in F.W.D. Breakdown Tractor will also be installed on this vehicle if tests prove satisfactory.
- (xii) 3-Ton 6 x 6 Chassis - Pilot model will undergo preliminary tests at the manufacturers on 3rd or 4th September.