RESEARCHES ON HYDRAULIC ACTIONING SYSTEM OF THE SUSPENSION MECHANISM AT TRACTORS

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SUMMARY

The paper presents the requirements imposed on suspension mechanism of tractors through which agricultural machines are coupled to tractors. Also, it is presented the functional principles of hydraulic action systems of suspension mechanism, such as: simple systems of lifting and descending, hydraulic systems with position adjustment, hydraulic systems with force adjustment.

The hydraulic systems of simple lifting and descending can be equipped with a hydraulic cylinder with simple action or with double action.

The hydraulic systems with position adjustment achieves the maintaining of the agricultural machine in a fix position towards the supporting plane of tractor. In the case of plowghing aggregates, hydraulic systems with position adjustment assure the constant maintaining of the work depth when the grounds are better leveled up.

The hydraulic systems with force adjustment achieve the modifying of machine position towards tractor depending on the resistance held by the agricultural machine (plow, for example) during work.

The paper presents a theme of actuality, because in modern agriculture, in construction of tractors and agricultural machines, the hydraulic systems of actioning and adjustment got a considerable development.

BIBLIOGRAPHY

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