

ABSTRACT

MARINE REDUCTION AND REVERSE GEAR AND HYDRAULIC DEVICE OF MARINE REDUCTION AND REVERSE GEAR

A marine reduction and reverse gear comprises a communication passage (309) extending from a hydraulic oil passage (210a), which is between a forward-reverse selector valve (206) and a hydraulic pump (202), to a lubricating oil passage (303a). A piping passage (307e) for detecting the hydraulic pressure in the hydraulic oil passage (210a) and a piping passage (307f) for detecting the hydraulic pressure in the lubricating oil passage are connected to a source pressure distribution plate (51). The source pressure distribution plate (51) is disposed at substantially the center on a hydraulic device mounting surface (10) provided to the marine reduction and reverse gear (1). The forward-reverse selector valve (206) and a hydraulic pressure detection means comprising pressure sensors (52a, 52b...) are disposed around the source pressure distribution plate (51). Also, an input shaft (2) is parallelly disposed between a first PTO output shaft (10) and a countershaft (6). A second PTO output shaft (5) is parallelly provided to an outer side-section of a countershaft (6) of a housing case (7). An auxiliary electricity generator (504) for small electric power is connected to the second PTO output shaft (5).

Fig. 3