Mechanism of the Mechanical Pneumatic Steering System and Its Effect of Reducing Lateral Force				
Yusuke	YAMANAGA	Shogo KAMOSHITA	Yasuhiro UMEHARA	
The authors have developed a steering system for a bolster-less bogie named "Mechanical Pneumatic Steer-				
ing System" that is mainly composed of three mechanical gadgets: the steering actuator, the pneumatic valve, and				
the bogie angle sensing device. In this paper, we report the function and mechanism of these gadgets, and among				
them, we explain the	e bogie angle sensing	device in more detail. Then the	paper shows the results of the bench to	est
to evaluate the perfe	ormance of the sensin	g device. Finally, it presents th	ne results of the running test on the to	est
track using a bogie equipped with the mechanical pneumatic steering system and its effect of reducing lateral force.				